# STIC Search Report
## Biotech-Chem Library

STIC Database Tracking Number: 188266

**TO: Nita M Minnifield**
**Location: rem-3c01/3c18**
**Art Unit: 1645**
**Wednesday, May 10, 2006**
**Case Serial Number: 08/170344**

**From: Kristine Hensle**
**Location: Biotech-Chem Library**
**REM-1B69**
**Phone: (571)272-4161**

**Kristine.Hensle@uspto.gov**

## Search Notes

Examiner Minnifield,

See attached results. This packet is part 6 of 8.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Kristine Hensle
Librarian
STIC Biotech/Chem Library
(571)272-4161

Reviewed
5/11/06
KM

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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 01:38:21 ; Search time 20.8 Seconds
(without alignments)
35.773 Million cell updates/sec

Title: US-08-170-344-50
Perfect score: 57
Sequence: 1 RHYCYSLYG 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/1/iaa/5_COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/6_COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/H_COMB.pep:*
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5: /cgn2_6/ptodata/1/iaa/RE_COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
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| 2 | 57 | 100.0 | 20 | 1 | US-08-934-915-163 | Sequence 163, App |
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| 5 | 57 | 100.0 | 158 | 2 | US-09-980-523A-2 | Sequence 2, Appli |
| 6 | 57 | 100.0 | 162 | 1 | US-08-316-239B-3 | Sequence 3, Appli |
| 7 | 57 | 100.0 | 172 | 2 | US-08-860-165-12 | Sequence 12, Appl |
| 8 | 57 | 100.0 | 172 | 2 | US-08-860-165-14 | Sequence 14, Appl |
| 9 | 57 | 100.0 | 172 | 2 | US-09-359-382-12 | Sequence 12, Appl |
| 10 | 57 | 100.0 | 172 | 2 | US-09-359-382-14 | Sequence 14, Appl |
| 11 | 57 | 100.0 | 182 | 1 | US-08-117-083-10 | Sequence 10, Appl |
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| 15 | 57 | 100.0 | 266 | 2 | US-09-367-309A-1 | Sequence 1, Appli |
| 16 | 57 | 100.0 | 273 | 2 | US-09-485-885-4 | Sequence 4, Appli |
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| 18 | 57 | 100.0 | 371 | 2 | US-09-485-885-6 | Sequence 6, Appli |
| 19 | 57 | 100.0 | 390 | 2 | US-09-485-885-14 | Sequence 14, Appl |
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| 24 | 44 | 77.2 | 99 | 2 | US-09-248-796A-21392 | Sequence 21392, A |
| 25 | 43 | 75.4 | 9 | 2 | US-08-159-339A-251 | Sequence 251, App |
| 26 | 41 | 71.9 | 141 | 2 | US-09-755-100A-12 | Sequence 12, Appl |
| 27 | 40 | 70.2 | 115 | 2 | US-09-107-532A-6191 | Sequence 6191, Ap |
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| 35 | 37 | 64.9 | 571 | 2 | US-09-460-295B-13 | Sequence 13, Appl |
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| 52 | 36 | 63.2 | 374 | 2 | US-09-442-349A-68 | Sequence 68, Appl |
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| 54 | 36 | 63.2 | 374 | 2 | US-09-442-349A-70 | Sequence 70, Appl |
| 55 | 36 | 63.2 | 374 | 2 | US-09-442-349A-71 | Sequence 71, Appl |
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| 59 | 36 | 63.2 | 374 | 2 | US-09-442-349A-75 | Sequence 75, Appl |
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| 67 | 36 | 63.2 | 374 | 2 | US-09-442-349A-83 | Sequence 83, Appl |
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| 87 | 36 | 63.2 | 802 | 2 | US-09-949-016-7922 | Sequence 7922, Ap |
| 88 | 36 | 63.2 | 869 | 2 | US-10-314-048A-100 | Sequence 100, App |
| 89 | 36 | 63.2 | 905 | 2 | US-09-754-250-4 | Sequence 4, Appli |
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| 102 | 36 | 63.2 | 921 | 2 | US-10-094-989-5 | Sequence 5, Appli |
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| 105 | 36 | 63.2 | 941 | 1 | US-07-872-644-45 | Sequence 45, Appl |
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| 128 | 36 | 63.2 | 2641 | 2 | US-09-964-956-63 | Sequence 63, Appl |
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| 134 | 35 | 61.4 | 34 | 2 | US-09-972-484-17 | Sequence 17, Appl |
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| 164 | 35 | 61.4 | 1452 | 1 | US-08-449-644-8 | Sequence 8, Appli |
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| 169 | 35 | 61.4 | 1452 | 4 | PCT-US93-04384-18 | Sequence 18, Appl |
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| 172 | 34 | 59.6 | 32 | 1 | US-08-466-285-4 | Sequence 4, Appli |
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| 174 | 34 | 59.6 | 80 | 2 | US-08-813-884-42 | Sequence 42, Appl |
| 175 | 34 | 59.6 | 89 | 2 | US-09-489-039A-8970 | Sequence 8970, Ap |
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| 177 | 34 | 59.6 | 119 | 2 | US-09-348-224-19 | Sequence 19, Appl |
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| 186 | 34 | 59.6 | 270 | 2 | US-09-816-028A-39 | Sequence 39, Appl |
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| 202 | 34 | 59.6 | 355 | 4 | PCT-US93-11153-28 | Sequence 28, Appl |
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| 507 | 31 | 54.4 | 148 | 2 | US-09-497-625A-100 | Sequence 100, App |
| 508 | 31 | 54.4 | 155 | 2 | US-09-710-279-344 | Sequence 344, App |
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| 610 | 31 | 54.4 | 3169 | 1 | US-08-477-451-6 | Sequence 6, Appli |
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| 617 | 30 | 52.6 | 10 | 2 | US-09-935-430-271 | Sequence 271, App |
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| 990 | 29 | 50.9 | 110 | 2 | US-09-248-796A-21822 | Sequence 21822, A |
| 991 | 29 | 50.9 | 111 | 2 | US-09-513-999C-7579 | Sequence 7579, Ap |
| 992 | 29 | 50.9 | 112 | 2 | US-09-270-767-60994 | Sequence 60994, A |
| 993 | 29 | 50.9 | 115 | 1 | US-08-379-057-31 | Sequence 31, Appl |
| 994 | 29 | 50.9 | 117 | 2 | US-09-840-459-83 | Sequence 83, Appl |
| 995 | 29 | 50.9 | 117 | 2 | US-09-497-625A-83 | Sequence 83, Appl |
| 996 | 29 | 50.9 | 117 | 2 | US-09-248-796A-22077 | Sequence 22077, A |
| 997 | 29 | 50.9 | 117 | 2 | US-09-798-689-7 | Sequence 7, Appli |
| 998 | 29 | 50.9 | 118 | 1 | US-08-379-057-30 | Sequence 30, Appl |
| 999 | 29 | 50.9 | 118 | 2 | US-10-200-012-33 | Sequence 33, Appl |
| 1000 | 29 | 50.9 | 120 | 2 | US-10-092-246-9 | Sequence 9, Appli |

ALIGNMENTS

```
RESULT 1
US-08-934-915-44
; Sequence 44, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  44:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-44

  Query Match           100.0%;  Score 57;  DB 1;  Length 20;
  Best Local Similarity  100.0%;  Pred. No. 0.008;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db          8 RHYCYSLYG 16


RESULT 2
US-08-934-915-163
; Sequence 163, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  163:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-163

  Query Match           100.0%;  Score 57;  DB 1;  Length 20;
  Best Local Similarity  100.0%;  Pred. No. 0.008;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db          8 RHYCYSLYG 16


RESULT 3
US-09-980-523A-8
; Sequence 8, Application US/09980523A
```

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; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
;   LENGTH: 29
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-8

  Query Match             100.0%;  Score 57;  DB 2;  Length 29;
  Best Local Similarity   100.0%;  Pred. No. 0.012;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db          5 RHYCYSLYG 13


RESULT 4
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
;  APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
;  TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 F
;  TITLE OF INVENTION:  TRANSCRIPTIONAL REGULATION
;  FILE REFERENCE: N73477C GCW
;  CURRENT APPLICATION NUMBER: US/09/701,080C
;  CURRENT FILING DATE:  2001-02-27
;  PRIOR APPLICATION NUMBER: GB 9811303.8
;  PRIOR FILING DATE: 1998-05-26
;  PRIOR APPLICATION NUMBER: GB 9900157.0
;  PRIOR FILING DATE: 1999-01-05
;  NUMBER OF SEQ ID NOS: 36
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-09-701-080C-18

  Query Match             100.0%;  Score 57;  DB 2;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 0.059;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db         77 RHYCYSLYG 85


RESULT 5
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-2

  Query Match             100.0%;  Score 57;  DB 2;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.062;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db         84 RHYCYSLYG 92


RESULT 6
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
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US-08-316-239B-3

Query Match 100.0%; Score 57; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.064;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RHYCYSLYG 9
||||||||||
Db 84 RHYCYSLYG 92

RESULT 7
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

Query Match 100.0%; Score 57; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.067;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RHYCYSLYG 9
||||||||||
Db 22 RHYCYSLYG 30

RESULT 8
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

Query Match 100.0%; Score 57; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.067;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RHYCYSLYG 9
||||||||||
Db 153 RHYCYSLYG 161

RESULT 9
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-12

Query Match 100.0%; Score 57; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.067;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RHYCYSLYG 9
||||||||||
Db 22 RHYCYSLYG 30

RESULT 10
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-14

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  Query Match            100.0%;  Score 57;  DB 2;  Length 172;
  Best Local Similarity  100.0%;  Pred. No. 0.067;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db        153 RHYCYSLYG 161


RESULT 11
US-08-117-083-10
; Sequence 10, Application US/08117083
; Patent No. 5719054
;  GENERAL INFORMATION:
;    APPLICANT:  Boursnell, Michael E.
;    APPLICANT:  Inglis, Stephen C.
;    APPLICANT:  Munro, Alan J.
;    TITLE OF INVENTION:  Recombinant Virus Vectors Encoding Human
;    TITLE OF INVENTION:  Papilloma Virus Proteins
;    NUMBER OF SEQUENCES:  70
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Walter H. Dreger
;      STREET:  4 Embarcadero Center, Suite 3400
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/117,083
;      FILING DATE:  10-SEP-1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Dreger, Walter H.
;      REGISTRATION NUMBER:  24,190
;      REFERENCE/DOCKET NUMBER:  A-58783
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-781-1989
;      TELEFAX:  415-398-3249
;      TELEX:  910 277299
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  182 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    FEATURE:
;      NAME/KEY:  Protein
;      LOCATION:  1..182
;      OTHER INFORMATION:  /note= "Xaa refers to stop codon in
;      OTHER INFORMATION:  the open reading frame."
US-08-117-083-10

  Query Match            100.0%;  Score 57;  DB 1;  Length 182;
  Best Local Similarity  100.0%;  Pred. No. 0.071;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db         65 RHYCYSLYG 73


RESULT 12
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
;  APPLICANT:  KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION:  ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE:  017753-122
;  CURRENT APPLICATION NUMBER: US/09/462,993
;  CURRENT FILING DATE:  2000-04-17
;  PRIOR APPLICATION NUMBER:  PCT/FR98/01576
;  PRIOR FILING DATE:  1998-07-17
;  PRIOR APPLICATION NUMBER:  FR 97/09152
;  PRIOR FILING DATE:  1997-07-18
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

  Query Match            100.0%;  Score 57;  DB 2;  Length 243;
  Best Local Similarity  100.0%;  Pred. No. 0.095;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db        112 RHYCYSLYG 120


RESULT 13
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

  Query Match            100.0%;  Score 57;  DB 2;  Length 266;
  Best Local Similarity  100.0%;  Pred. No. 0.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db         84 RHYCYSLYG 92


RESULT 14
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
```

```
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-10

  Query Match             100.0%;  Score 57;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db         84 RHYCYSLYG 92


RESULT 15
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 57;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db         84 RHYCYSLYG 92


RESULT 16
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-4

  Query Match             100.0%;  Score 57;  DB 2;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 0.11;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db        190 RHYCYSLYG 198


RESULT 17
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-10

  Query Match             100.0%;  Score 57;  DB 2;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.11;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db        209 RHYCYSLYG 217


RESULT 18
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
```

; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-6

Query Match 100.0%; Score 57; DB 2; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RHYCYSLYG 9
||||||||| 
Db 190 RHYCYSLYG 198

RESULT 19
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-14

Query Match 100.0%; Score 57; DB 2; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RHYCYSLYG 9
||||||||| 
Db 209 RHYCYSLYG 217

RESULT 20
US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; APPLICANT: Parmenter, Cheryl A.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; TITLE OF INVENTION: Cervical Cancer
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jagtiani & Associates
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; REFERENCE/DOCKET NUMBER: UNME-0001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 162 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
US-08-316-239B-4

Query Match 94.7%; Score 54; DB 1; Length 162;
Best Local Similarity 88.9%; Pred. No. 0.19;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RHYCYSLYG 9
|||||:|| 
Db 84 RHYCYSVYG 92

RESULT 21
US-08-159-339A-1171
; Sequence 1171, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
; APPLICANT: Kubo, Ralph T.
; APPLICANT: Grey, Howard M.
; APPLICANT: Sette, Alessandro
; APPLICANT: Celis, Esteban
; TITLE OF INVENTION: HLA Binding peptides and Their
; TITLE OF INVENTION: Uses
; NUMBER OF SEQUENCES: 1254
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/159,339A
; FILING DATE: 29-NOV-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/926,666
; FILING DATE: 07-AUG-1992
; APPLICATION NUMBER: US 08/027,746
; FILING DATE: 05-MAR-1993
; APPLICATION NUMBER: US 08/103,396
; FILING DATE: 06-AUG-1993

```
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  1171:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  11 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-1171

  Query Match             91.2%;  Score 52;  DB 2;  Length 11;
  Best Local Similarity   100.0%;  Pred. No. 0.028;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 HYCYSLYG 9
              ||||||||
Db          1 HYCYSLYG 8


RESULT 22
US-08-159-339A-235
; Sequence 235, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  235:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-235

  Query Match             84.2%;  Score 48;  DB 2;  Length 9;
  Best Local Similarity   88.9%;  Pred. No. 4.6e+05;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              ||| |||||
Db          1 RHYAYSLYG 9


RESULT 23
US-09-248-796A-24718
; Sequence 24718, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 24718
;   LENGTH: 63
;   TYPE: PRT
;   ORGANISM: Candida albicans
US-09-248-796A-24718

  Query Match             77.2%;  Score 44;  DB 2;  Length 63;
  Best Local Similarity   100.0%;  Pred. No. 3;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSL 7
              |||||||
Db         17 RHYCYSL 23


RESULT 24
US-09-248-796A-21392
; Sequence 21392, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 21392
;   LENGTH: 99
;   TYPE: PRT
;   ORGANISM: Candida albicans
US-09-248-796A-21392

  Query Match             77.2%;  Score 44;  DB 2;  Length 99;
  Best Local Similarity   75.0%;  Pred. No. 4.6;
  Matches    6;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLY 8
              :|||:|||
```

```
Db          6 KHYCFSLY 13


RESULT 25
US-08-159-339A-251
; Sequence 251, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  251:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-251

  Query Match             75.4%;  Score 43;  DB 2;  Length 9;
  Best Local Similarity   87.5%;  Pred. No. 4.6e+05;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HYCYSLYG 9
              || |||||
Db          1 HYAYSLYG 8


RESULT 26
US-09-755-100A-12
; Sequence 12, Application US/09755100A
; Patent No. 6740516
; GENERAL INFORMATION:
;  APPLICANT: K. SAVITZKY et al.
;  TITLE OF INVENTION: NOVEL NUCLEIC ACID AND AMINO ACID SEQUENCES
;  FILE REFERENCE: 2786-0156P
;  CURRENT APPLICATION NUMBER: US/09/755,100A
;  CURRENT FILING DATE:  2001-01-08
;  NUMBER OF SEQ ID NOS: 16
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 12
;   LENGTH: 141
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-755-100A-12

  Query Match             71.9%;  Score 41;  DB 2;  Length 141;
  Best Local Similarity   77.8%;  Pred. No. 20;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              || | ||||
Db        101 RHLCVSLYG 109


RESULT 27
US-09-107-532A-6191
; Sequence 6191, Application US/09107532A
; Patent No. 6583275
;   GENERAL INFORMATION:
;        APPLICANT: Lynn A Doucette-Stamm  and David Bush
;        TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;                            ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
;        NUMBER OF SEQUENCES: 7310
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;             STREET: 100 Beaver Street
;             CITY: Waltham
;             STATE: Massachusetts
;             COUNTRY: USA
;             ZIP: 02354
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: CD/ROM ISO9660
;             COMPUTER: PC
;             OPERATING SYSTEM: <Unknown>
;             SOFTWARE: ASCII
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/107,532A
;             FILING DATE: 30-Jun-1998
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 60/085,598
;             FILING DATE: 14 May 1998
;             APPLICATION NUMBER: 60/051571
;             FILING DATE: July 2, 1997
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Ariniello, Pamela Deneke
;             REGISTRATION NUMBER: 40,489
;             REFERENCE/DOCKET NUMBER: GTC-012
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (781)893-5007
;             TELEFAX: (781)893-8277
;   INFORMATION FOR SEQ ID NO: 6191:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 115 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        HYPOTHETICAL: YES
;        ORIGINAL SOURCE:
;             ORGANISM: Enterococcus faecium
;        FEATURE:
;             NAME/KEY:  misc_feature
;             LOCATION: (B) LOCATION 1...115
;        SEQUENCE DESCRIPTION: SEQ ID NO: 6191:
US-09-107-532A-6191

  Query Match             70.2%;  Score 40;  DB 2;  Length 115;
  Best Local Similarity   75.0%;  Pred. No. 23;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;
```

```
Qy          2 HYCYSLYG 9
              | || |||
Db         86 HVCYDLYG 93


RESULT 28
US-09-409-604-2
; Sequence 2, Application US/09409604A
; Patent No. 6632934
; GENERAL INFORMATION:
;  APPLICANT:  Moreadith, Randall W.
;  APPLICANT:  Zinn, Andrew R.
;  APPLICANT:  Watson, Mark L.
;  APPLICANT:  Inoue, No. 6632934imitsu
;  APPLICANT:  Hess, Karl D.
;  APPLICANT:  Albright, George M.
;  TITLE OF INVENTION:  MORC GENE COMPOSITIONS AND METHODS OF USE
;  FILE REFERENCE:  UTSD:573
;  CURRENT APPLICATION NUMBER: US/09/409,604A
;  CURRENT FILING DATE:  1999-09-30
;  NUMBER OF SEQ ID NOS:  18
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 950
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-09-409-604-2

  Query Match             70.2%;  Score 40;  DB 2;  Length 950;
  Best Local Similarity   75.0%;  Pred. No. 1.9e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLY 8
              :| |||||
Db        261 KHLCYSLY 268


RESULT 29
US-09-107-532A-4132
; Sequence 4132, Application US/09107532A
; Patent No. 6583275
;   GENERAL INFORMATION:
;        APPLICANT: Lynn A Doucette-Stamm  and David Bush
;        TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;                            ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
;        NUMBER OF SEQUENCES: 7310
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;             STREET: 100 Beaver Street
;             CITY: Waltham
;             STATE: Massachusetts
;             COUNTRY: USA
;             ZIP: 02354
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: CD/ROM ISO9660
;             COMPUTER: PC
;             OPERATING SYSTEM: <Unknown>
;             SOFTWARE: ASCII
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/107,532A
;             FILING DATE: 30-Jun-1998
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 60/085,598
;             FILING DATE: 14 May 1998
;             APPLICATION NUMBER: 60/051571
;             FILING DATE: July 2, 1997
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Ariniello, Pamela Deneke
;             REGISTRATION NUMBER: 40,489
;             REFERENCE/DOCKET NUMBER: GTC-012
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (781)893-5007
;             TELEFAX: (781)893-8277
;   INFORMATION FOR SEQ ID NO: 4132:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 128 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        HYPOTHETICAL: YES
;        ORIGINAL SOURCE:
;             ORGANISM: Enterococcus faecium
;        FEATURE:
;             NAME/KEY:  misc_feature
;             LOCATION: (B) LOCATION 1...128
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4132:
US-09-107-532A-4132

  Query Match             66.7%;  Score 38;  DB 2;  Length 128;
  Best Local Similarity   85.7%;  Pred. No. 54;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSL 7
              |:|||||
Db         27 RYYCYSL 33


RESULT 30
US-09-270-767-45501
; Sequence 45501, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 45501
;   LENGTH: 457
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-45501

  Query Match             66.7%;  Score 38;  DB 2;  Length 457;
  Best Local Similarity   85.7%;  Pred. No. 1.9e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HYCYSLY 8
              | |||||
Db        421 HVCYSLY 427


RESULT 31
US-08-936-135-4
; Sequence 4, Application US/08936135
; Patent No. 6054293
;  GENERAL INFORMATION:
;    APPLICANT:  Tessier-Lavigne, Marc
;    APPLICANT:  He, Zhigang
;    APPLICANT:  Chen, Hang
;    TITLE OF INVENTION:  Semaphorin Receptors
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  SCIENCE & TECHNOLOGY LAW GROUP
;      STREET:  75 DENISE DRIVE
;      CITY:  HILLSBOROUGH
;      STATE:  CALIFORNIA
;      COUNTRY:  USA
;      ZIP:  94010
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
```

```
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/936,135
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  OSMAN, RICHARD A
;      REGISTRATION NUMBER:  36,627
;      REFERENCE/DOCKET NUMBER:  UC97-288-2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (650) 343-4341
;      TELEFAX:  (650) 343-4342
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2584 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-936-135-4

  Query Match             66.7%;  Score 38;  DB 2;  Length 2584;
  Best Local Similarity   100.0%;  Pred. No. 1.1e+03;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 YCYSLY 8
              ||||||
Db       1179 YCYSLY 1184


RESULT 32
US-08-936-135-2
; Sequence 2, Application US/08936135
; Patent No. 6054293
;  GENERAL INFORMATION:
;    APPLICANT:  Tessier-Lavigne, Marc
;    APPLICANT:  He, Zhigang
;    APPLICANT:  Chen, Hang
;    TITLE OF INVENTION:  Semaphorin Receptors
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  SCIENCE & TECHNOLOGY LAW GROUP
;      STREET:  75 DENISE DRIVE
;      CITY:  HILLSBOROUGH
;      STATE:  CALIFORNIA
;      COUNTRY:  USA
;      ZIP:  94010
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/936,135
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  OSMAN, RICHARD A
;      REGISTRATION NUMBER:  36,627
;      REFERENCE/DOCKET NUMBER:  UC97-288-2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (650) 343-4341
;      TELEFAX:  (650) 343-4342
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2588 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-936-135-2

  Query Match             66.7%;  Score 38;  DB 2;  Length 2588;
  Best Local Similarity   100.0%;  Pred. No. 1.1e+03;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 YCYSLY 8
              ||||||
Db       1181 YCYSLY 1186


RESULT 33
US-08-159-339A-563
; Sequence 563, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  563:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-563

  Query Match             64.9%;  Score 37;  DB 2;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 4.6e+05;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 CYSLYG 9
              ||||||
Db          1 CYSLYG 6


RESULT 34
US-09-893-737-324
; Sequence 324, Application US/09893737
; Patent No. 6822082
; GENERAL INFORMATION:
```

```
;  APPLICANT: Sheppard, Paul O.
;  APPLICANT:  Presnell, Scott R.
;  TITLE OF INVENTION: MAMMALIAN SECRETED PROTEINS
;  FILE REFERENCE: 00-41
;  CURRENT APPLICATION NUMBER: US/09/893,737
;  CURRENT FILING DATE:  2001-06-28
;  PRIOR APPLICATION NUMBER: US 60/215,446
;  PRIOR FILING DATE: 2000-06-30
;  NUMBER OF SEQ ID NOS: 329
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 324
;   LENGTH: 295
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-893-737-324

  Query Match             64.9%;  Score 37;  DB 2;  Length 295;
  Best Local Similarity   71.4%;  Pred. No. 1.8e+02;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 YCYSLYG 9
              ||:|:||
Db         81 YCWSMYG 87


RESULT 35
US-09-460-295B-13
; Sequence 13, Application US/09460295B
; Patent No. 6710030
; GENERAL INFORMATION:
;  APPLICANT: UNIVERSITY OF SOUTHERN CALIFORNIA
;  TITLE OF INVENTION: CONTORTROSTATIN (CN) AND METHODS FOR ITS USE IN PREVENTING METAST
;  TITLE OF INVENTION:  OTHER CONDITIONS
;  FILE REFERENCE: 1279-338C3/09801388
;  CURRENT APPLICATION NUMBER: US/09/460,295B
;  CURRENT FILING DATE:  1999-12-10
;  PRIOR APPLICATION NUMBER: US 09/163,047
;  PRIOR FILING DATE: 1998-09-29
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
;   LENGTH: 571
;   TYPE: PRT
;   ORGANISM: Bothrops jararaca
US-09-460-295B-13

  Query Match             64.9%;  Score 37;  DB 2;  Length 571;
  Best Local Similarity   62.5%;  Pred. No. 3.4e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HYCYSLYG 9
              | ||:|:|
Db        470 HQCYALFG 477


RESULT 36
US-09-949-016-11688
; Sequence 11688, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11688
;   LENGTH: 1380
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-11688

  Query Match             64.9%;  Score 37;  DB 2;  Length 1380;
  Best Local Similarity   71.4%;  Pred. No. 8.3e+02;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 HYCYSLY 8
              |||:||:
Db        602 HYCHSLF 608


RESULT 37
US-08-159-339A-76
; Sequence 76, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  76:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-76

  Query Match             63.2%;  Score 36;  DB 2;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 4.6e+05;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCY 5
```

```
              |||||
Db          5 RHYCY 9


RESULT 38
US-09-601-729-277
; Sequence 277, Application US/09601729
; Patent No. 6683052
; GENERAL INFORMATION:
;  APPLICANT: THIAM, KADER
;  APPLICANT:  AURIAULT, CLAUDE
;  APPLICANT:  GRAS-MASSE, HELENE
;  APPLICANT:  LOING, ESTELLE
;  APPLICANT:  VERWAERDE, CLAUDIE
;  APPLICANT:  GUILLET, JEAN GERARD
;  TITLE OF INVENTION: LIPOPEPTIDES CONTAINING AN INTERFERON FRAGMENT AND USES
;  TITLE OF INVENTION:  THEREOF IN PHARMACEUTICAL COMPOSITIONS
;  FILE REFERENCE: USB-97-AU-IN
;  CURRENT APPLICATION NUMBER: US/09/601,729
;  CURRENT FILING DATE:  2000-11-20
;  PRIOR APPLICATION NUMBER: PCT/FR99/00259
;  PRIOR FILING DATE: 1999-02-05
;  PRIOR APPLICATION NUMBER: 98 01439
;  PRIOR FILING DATE: 1998-02-06
;  NUMBER OF SEQ ID NOS: 281
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 277
;    LENGTH: 9
;    TYPE: PRT
;    ORGANISM: Artificial Sequence
;    FEATURE:
;    OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;    OTHER INFORMATION: peptide
US-09-601-729-277

  Query Match             63.2%;  Score 36;  DB 2;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 4.6e+05;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCY 5
              |||||
Db          5 RHYCY 9


RESULT 39
US-09-543-681A-5029
; Sequence 5029, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
;  APPLICANT: GARY BRETON
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABIL
;  TITLE OF INVENTION:  DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 2709.1002-001
;  CURRENT APPLICATION NUMBER: US/09/543,681A
;  CURRENT FILING DATE:  2000-04-05
;  PRIOR APPLICATION NUMBER: US 60/128,706
;  PRIOR FILING DATE: 1999-04-09
;  NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 5029
;    LENGTH: 194
;    TYPE: PRT
;    ORGANISM: Proteus mirabilis
US-09-543-681A-5029

  Query Match             63.2%;  Score 36;  DB 2;  Length 194;
  Best Local Similarity   44.4%;  Pred. No. 1.7e+02;
  Matches    4;  Conservative    4;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              :|:|: :||
Db         57 KHHCHCVYG 65


RESULT 40
US-08-469-260A-42
; Sequence 42, Application US/08469260A
; Patent No. 6451578
;  GENERAL INFORMATION:
;    APPLICANT:  JOHN N. SIMONS
;    APPLICANT:  TAMI J. PILOT-MATIAS
;    APPLICANT:  GEORGE J. DAWSON
;    APPLICANT:  GEORGE G. SCHLAUDER
;    APPLICANT:  SURESH M. DESAI
;    APPLICANT:  THOMAS P. LEARY
;    APPLICANT:  ANTHONY SCOTT MUERHOFF
;    APPLICANT:  JAMES C. ERKER
;    APPLICANT:  SHERI L. BUIJK
;    APPLICANT:  ISA K. MUSHAHWAR
;    TITLE OF INVENTION:  NON-A, NON-B. NON-C, NON-D, NON-E HEPATITIS
;    TITLE OF INVENTION:  REAGENTS AND METHODS FOR THEIR USE
;    NUMBER OF SEQUENCES:  716
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ABBOTT LABORATORIES  D377/AP6D
;      STREET:  100 ABBOTT PARK ROAD
;      CITY:  ABBOTT PARK
;      STATE:  IL
;      COUNTRY:  USA
;      ZIP:  60064-3500
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/469,260A
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/424,550
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  POREMBSKI, PRISCILLA E.
;      REGISTRATION NUMBER:  33,207
;      REFERENCE/DOCKET NUMBER:  5527.PC.01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  708-937-6365
;      TELEFAX:  708-938-2623
;  INFORMATION FOR SEQ ID NO:  42:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  245 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-469-260A-42

  Query Match             63.2%;  Score 36;  DB 2;  Length 245;
  Best Local Similarity   100.0%;  Pred. No. 2.1e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCY 5
              |||||
Db         63 RHYCY 67


RESULT 41
US-08-488-446-42
; Sequence 42, Application US/08488446
; Patent No. 6558898
;  GENERAL INFORMATION:
;    APPLICANT:  JOHN N. SIMONS
;    APPLICANT:  TAMI J. PILOT-MATIAS
;    APPLICANT:  GEORGE J. DAWSON
;    APPLICANT:  GEORGE G. SCHLAUDER
;    APPLICANT:  SURESH M. DESAI
;    APPLICANT:  THOMAS P. LEARY
```

```
;    APPLICANT:  ANTHONY SCOTT MUERHOFF
;    APPLICANT:  JAMES C. ERKER
;    APPLICANT:  SHERI L. BUIJK
;    APPLICANT:  ISA K. MUSHAHWAR
;    TITLE OF INVENTION:  NON-A, NON-B. NON-C, NON-D, NON-E HEPATITIS
;    TITLE OF INVENTION:  REAGENTS AND METHODS FOR THEIR USE
;    NUMBER OF SEQUENCES:  716
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ABBOTT LABORATORIES  D377/AP6D
;      STREET:  100 ABBOTT PARK ROAD
;      CITY:  ABBOTT PARK
;      STATE:  IL
;      COUNTRY:  USA
;      ZIP:  60064-3500
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/488,446
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/424,550
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  POREMBSKI, PRISCILLA E.
;      REGISTRATION NUMBER:  33,207
;      REFERENCE/DOCKET NUMBER:  5527.PC.01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  708-937-6365
;      TELEFAX:  708-938-2623
;  INFORMATION FOR SEQ ID NO:  42:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  245 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-488-446-42

  Query Match             63.2%;  Score 36;  DB 2;  Length 245;
  Best Local Similarity   100.0%;  Pred. No. 2.1e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCY 5
              |||||
Db         63 RHYCY 67


RESULT 42
US-08-467-344A-42
; Sequence 42, Application US/08467344A
; Patent No. 6586568
;  GENERAL INFORMATION:
;       APPLICANT: JOHN N. SIMONS
;                  TAMI J. PILOT-MATIAS
;                  GEORGE J. DAWSON
;                  GEORGE G. SCHLAUDER
;                  SURESH M. DESAI
;                  THOMAS P. LEARY
;                  ANTHONY SCOTT MUERHOFF
;                  JAMES C. ERKER
;                  SHERI L. BUIJK
;                  ISA K. MUSHAHWAR
;       TITLE OF INVENTION: NON-A, NON-B. NON-C, NON-D, NON-E HEPATITIS
;                           REAGENTS AND METHODS FOR THEIR USE
;       NUMBER OF SEQUENCES: 716
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: ABBOTT LABORATORIES  D377/AP6D
;            STREET: 100 ABBOTT PARK ROAD
;            CITY: ABBOTT PARK
;            STATE: IL
;            COUNTRY: USA
;            ZIP: 60064-3500
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.25
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/08/467,344A
;            FILING DATE: 07-Jun-1995
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 08/424,550
;            FILING DATE: <Unknown>
;       ATTORNEY/AGENT INFORMATION:
;            NAME: POREMBSKI, PRISCILLA E.
;            REGISTRATION NUMBER: 33,207
;            REFERENCE/DOCKET NUMBER: 5527.PC.01
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: 708-937-6365
;            TELEFAX: 708-938-2623
;  INFORMATION FOR SEQ ID NO: 42:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 245 amino acids
;            TYPE: amino acid
;            STRANDEDNESS: single
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       SEQUENCE DESCRIPTION: SEQ ID NO: 42:
US-08-467-344A-42

  Query Match             63.2%;  Score 36;  DB 2;  Length 245;
  Best Local Similarity   100.0%;  Pred. No. 2.1e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCY 5
              |||||
Db         63 RHYCY 67


RESULT 43
US-08-424-550B-42
; Sequence 42, Application US/08424550B
; Patent No. 6720166
;  GENERAL INFORMATION:
;    APPLICANT:  JOHN N. SIMONS
;    APPLICANT:  TAMI J. PILOT-MATIAS
;    APPLICANT:  GEORGE J. DAWSON
;    APPLICANT:  GEORGE G. SCHLAUDER
;    APPLICANT:  SURESH M. DESAI
;    APPLICANT:  THOMAS P. LEARY
;    APPLICANT:  ANTHONY SCOTT MUERHOFF
;    APPLICANT:  JAMES C. ERKER
;    APPLICANT:  SHERI L. BUIJK
;    APPLICANT:  ISA K. MUSHAHWAR
;    TITLE OF INVENTION:  NON-A, NON-B. NON-C, NON-D, NON-E HEPATITIS
;    TITLE OF INVENTION:  REAGENTS AND METHODS FOR THEIR USE
;    NUMBER OF SEQUENCES:  716
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ABBOTT LABORATORIES  D377/AP6D
;      STREET:  100 ABBOTT PARK ROAD
;      CITY:  ABBOTT PARK
;      STATE:  IL
;      COUNTRY:  USA
;      ZIP:  60064-3500
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/424,550B
```

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;       FILING DATE:
;       CLASSIFICATION:  435435
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  POREMBSKI, PRISCILLA E.
;       REGISTRATION NUMBER:  33,207
;       REFERENCE/DOCKET NUMBER:  5527.PC.01
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  708-937-6365
;       TELEFAX:  708-938-2623
;   INFORMATION FOR SEQ ID NO:  42:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  245 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-08-424-550B-42

  Query Match             63.2%;  Score 36;  DB 2;  Length 245;
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Qy          1 RHYCY 5
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Db         63 RHYCY 67


RESULT 44
US-08-948-276-5
; Sequence 5, Application US/08948276
; Patent No. 6511829
; GENERAL INFORMATION:
;  APPLICANT: Ernst, Joel D.
;  TITLE OF INVENTION: GFP-Annexin Fusion Proteins
;  FILE REFERENCE: UCSF97-113
;  CURRENT APPLICATION NUMBER: US/08/948,276
;  CURRENT FILING DATE: 1997-10-09
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
;   LENGTH: 323
;   TYPE: PRT
;   ORGANISM: human
US-08-948-276-5

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  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLY 8
              :|| ||||
Db        293 KHYGYSLY 300


RESULT 45
US-09-949-016-6593
; Sequence 6593, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6593
;   LENGTH: 323
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-6593

  Query Match             63.2%;  Score 36;  DB 2;  Length 323;
  Best Local Similarity   75.0%;  Pred. No. 2.8e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLY 8
              :|| ||||
Db        293 KHYGYSLY 300


RESULT 46
US-09-949-016-7952
; Sequence 7952, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7952
;   LENGTH: 334
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-7952

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Qy          1 RHYCYSLY 8
              :|| ||||
Db        304 KHYGYSLY 311


RESULT 47
US-09-442-349A-4
; Sequence 4, Application US/09442349A
; Patent No. 6462178
; GENERAL INFORMATION:
;  APPLICANT:  Wong, Yung H
;  TITLE OF INVENTION:  G Protein
;  FILE REFERENCE:  M99/0101/US
;  CURRENT APPLICATION NUMBER: US/09/442,349A
;  CURRENT FILING DATE:  1999-11-17
;  NUMBER OF SEQ ID NOS:  116
;  SOFTWARE:  PatentIn Ver. 2.1
; SEQ ID NO 4
;   LENGTH: 374
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: G protein
;   OTHER INFORMATION: chimera
US-09-442-349A-4

  Query Match             63.2%;  Score 36;  DB 2;  Length 374;
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  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
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Qy          1 RHYCY 5
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Db        336 RHYCY 340


RESULT 48
US-09-442-349A-64
; Sequence 64, Application US/09442349A
; Patent No. 6462178
; GENERAL INFORMATION:
;  APPLICANT:  Wong, Yung H
;  TITLE OF INVENTION:  G Protein
;  FILE REFERENCE:  M99/0101/US
;  CURRENT APPLICATION NUMBER: US/09/442,349A
;  CURRENT FILING DATE:  1999-11-17
;  NUMBER OF SEQ ID NOS:  116
;  SOFTWARE:  PatentIn Ver. 2.1
; SEQ ID NO 64
;   LENGTH: 374
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: G protein
;   OTHER INFORMATION: chimera
US-09-442-349A-64

  Query Match             63.2%;  Score 36;  DB 2;  Length 374;
  Best Local Similarity   100.0%;  Pred. No. 3.3e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCY 5
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Db        336 RHYCY 340


RESULT 49
US-09-442-349A-65
; Sequence 65, Application US/09442349A
; Patent No. 6462178
; GENERAL INFORMATION:
;  APPLICANT:  Wong, Yung H
;  TITLE OF INVENTION:  G Protein
;  FILE REFERENCE:  M99/0101/US
;  CURRENT APPLICATION NUMBER: US/09/442,349A
;  CURRENT FILING DATE:  1999-11-17
;  NUMBER OF SEQ ID NOS:  116
;  SOFTWARE:  PatentIn Ver. 2.1
; SEQ ID NO 65
;   LENGTH: 374
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: G protein
;   OTHER INFORMATION: chimera
US-09-442-349A-65

  Query Match             63.2%;  Score 36;  DB 2;  Length 374;
  Best Local Similarity   100.0%;  Pred. No. 3.3e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCY 5
              |||||
Db        336 RHYCY 340


RESULT 50
US-09-442-349A-66
; Sequence 66, Application US/09442349A
; Patent No. 6462178
; GENERAL INFORMATION:
;  APPLICANT:  Wong, Yung H
;  TITLE OF INVENTION:  G Protein
;  FILE REFERENCE:  M99/0101/US
;  CURRENT APPLICATION NUMBER: US/09/442,349A
;  CURRENT FILING DATE:  1999-11-17
;  NUMBER OF SEQ ID NOS:  116
;  SOFTWARE:  PatentIn Ver. 2.1
; SEQ ID NO 66
;   LENGTH: 374
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: G protein
;   OTHER INFORMATION: chimera
US-09-442-349A-66

  Query Match             63.2%;  Score 36;  DB 2;  Length 374;
  Best Local Similarity   100.0%;  Pred. No. 3.3e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCY 5
              |||||
Db        336 RHYCY 340


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Job time : 22.8 secs
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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:44:45 ; Search time 55.9 Seconds
(without alignments)
67.271 Million cell updates/sec

Title: US-08-170-344-50
Perfect score: 57
Sequence: 1 RHYCYSLYG 9

Scoring table: BLOSUM62
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Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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| 33 | 45 | 78.9 | 149 | 6 | US-11-021-949-15 | Sequence 15, Appl |
| 34 | 45 | 78.9 | 153 | 6 | US-11-021-949-20 | Sequence 20, Appl |
| 35 | 44 | 77.2 | 9 | 4 | US-10-239-313A-313 | Sequence 313, App |
| 36 | 44 | 77.2 | 9 | 5 | US-10-751-845-86 | Sequence 86, Appl |
| 37 | 44 | 77.2 | 10 | 5 | US-10-751-845-80 | Sequence 80, Appl |
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| 39 | 42 | 73.7 | 10 | 5 | US-10-751-845-79 | Sequence 79, Appl |
| 40 | 42 | 73.7 | 149 | 6 | US-11-021-949-16 | Sequence 16, Appl |
| 41 | 41 | 71.9 | 141 | 3 | US-09-755-100-12 | Sequence 12, Appl |
| 42 | 41 | 71.9 | 141 | 4 | US-10-298-965-12 | Sequence 12, Appl |
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| 47 | 38 | 66.7 | 438 | 5 | US-10-732-923-23922 | Sequence 23922, A |
| 48 | 38 | 66.7 | 1233 | 4 | US-10-343-710-85 | Sequence 85, Appl |
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| 55 | 37 | 64.9 | 92 | 3 | US-09-864-761-34291 | Sequence 34291, A |
| 56 | 37 | 64.9 | 102 | 4 | US-10-437-963-118714 | Sequence 118714, |
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| 66 | 37 | 64.9 | 1720 | 4 | US-10-471-450-1 | Sequence 1, Appli |
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| 77 | 36 | 63.2 | 90 | 4 | US-10-767-701-49687 | Sequence 49687, A |
| 78 | 36 | 63.2 | 91 | 4 | US-10-106-698-6750 | Sequence 6750, Ap |
| 79 | 36 | 63.2 | 98 | 4 | US-10-437-963-117931 | Sequence 117931, |
| 80 | 36 | 63.2 | 104 | 4 | US-10-264-049-3959 | Sequence 3959, Ap |
| 81 | 36 | 63.2 | 130 | 4 | US-10-424-599-145103 | Sequence 145103, |
| 82 | 36 | 63.2 | 138 | 5 | US-10-450-763-39449 | Sequence 39449, A |
| 83 | 36 | 63.2 | 155 | 6 | US-11-021-949-22 | Sequence 22, Appl |
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| 85 | 36 | 63.2 | 178 | 4 | US-10-264-049-3567 | Sequence 3567, Ap |
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| 88 | 36 | 63.2 | 215 | 4 | US-10-425-115-299699 | Sequence 299699, |
| 89 | 36 | 63.2 | 233 | 5 | US-10-353-575A-28 | Sequence 28, Appl |
| 90 | 36 | 63.2 | 245 | 2 | US-08-424-550B-42 | Sequence 42, Appl |
| 91 | 36 | 63.2 | 263 | 4 | US-10-437-963-193431 | Sequence 193431, |
| 92 | 36 | 63.2 | 302 | 5 | US-10-732-923-7624 | Sequence 7624, Ap |
| 93 | 36 | 63.2 | 308 | 5 | US-10-732-923-8025 | Sequence 8025, Ap |
| 94 | 36 | 63.2 | 323 | 4 | US-10-205-823-34 | Sequence 34, Appl |
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| 109 | 36 | 63.2 | 379 | 3 | US-09-952-680A-15 | Sequence 15, Appl |
| 110 | 36 | 63.2 | 379 | 4 | US-10-408-765A-105 | Sequence 105, App |
| 111 | 36 | 63.2 | 379 | 5 | US-10-215-982-15 | Sequence 15, Appl |
| 112 | 36 | 63.2 | 379 | 5 | US-10-732-923-7833 | Sequence 7833, Ap |
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| 115 | 36 | 63.2 | 379 | 5 | US-10-732-923-8015 | Sequence 8015, Ap |
| 116 | 36 | 63.2 | 380 | 3 | US-09-952-680A-16 | Sequence 16, Appl |
| 117 | 36 | 63.2 | 380 | 5 | US-10-215-982-16 | Sequence 16, Appl |
| 118 | 36 | 63.2 | 380 | 5 | US-10-732-923-8016 | Sequence 8016, Ap |
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| 122 | 36 | 63.2 | 386 | 5 | US-10-732-923-8062 | Sequence 8062, Ap |
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| 124 | 36 | 63.2 | 394 | 3 | US-09-952-680A-13 | Sequence 13, Appl |
| 125 | 36 | 63.2 | 394 | 3 | US-09-963-131-192 | Sequence 192, App |
| 126 | 36 | 63.2 | 394 | 3 | US-09-963-131-194 | Sequence 194, App |
| 127 | 36 | 63.2 | 394 | 4 | US-10-116-275-187 | Sequence 187, App |
| 128 | 36 | 63.2 | 394 | 4 | US-10-352-843-18 | Sequence 18, Appl |
| 129 | 36 | 63.2 | 394 | 5 | US-10-215-982-13 | Sequence 13, Appl |
| 130 | 36 | 63.2 | 394 | 5 | US-10-684-422-194 | Sequence 194, App |
| 131 | 36 | 63.2 | 394 | 5 | US-10-732-923-7589 | Sequence 7589, Ap |
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| 143 | 36 | 63.2 | 402 | 5 | US-10-732-923-8059 | Sequence 8059, Ap |
| 144 | 36 | 63.2 | 412 | 5 | US-10-831-070-150 | Sequence 150, App |
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| 146 | 36 | 63.2 | 421 | 3 | US-09-741-669-400 | Sequence 400, App |
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| 148 | 36 | 63.2 | 452 | 5 | US-10-489-695-25 | Sequence 25, Appl |
| 149 | 36 | 63.2 | 467 | 5 | US-10-489-695-8 | Sequence 8, Appli |
| 150 | 36 | 63.2 | 471 | 5 | US-10-489-695-26 | Sequence 26, Appl |
| 151 | 36 | 63.2 | 504 | 5 | US-10-450-763-35901 | Sequence 35901, A |
| 152 | 36 | 63.2 | 606 | 4 | US-10-439-532-12 | Sequence 12, Appl |
| 153 | 36 | 63.2 | 606 | 4 | US-10-712-584-12 | Sequence 12, Appl |
| 154 | 36 | 63.2 | 649 | 4 | US-10-369-493-3010 | Sequence 3010, Ap |
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| 156 | 36 | 63.2 | 720 | 4 | US-10-164-163-16 | Sequence 16, Appl |
| 157 | 36 | 63.2 | 735 | 5 | US-10-491-654-25 | Sequence 25, Appl |
| 158 | 36 | 63.2 | 756 | 3 | US-09-963-131-184 | Sequence 184, App |
| 159 | 36 | 63.2 | 756 | 5 | US-10-732-923-7617 | Sequence 7617, Ap |
| 160 | 36 | 63.2 | 769 | 4 | US-10-437-963-132068 | Sequence 132068, |
| 161 | 36 | 63.2 | 775 | 4 | US-10-139-483-6 | Sequence 6, Appli |
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| 163 | 36 | 63.2 | 833 | 4 | US-10-264-237-2301 | Sequence 2301, Ap |
| 164 | 36 | 63.2 | 846 | 5 | US-10-732-923-7655 | Sequence 7655, Ap |
| 165 | 36 | 63.2 | 846 | 5 | US-10-732-923-7656 | Sequence 7656, Ap |
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| 167 | 36 | 63.2 | 861 | 4 | US-10-473-254-3 | Sequence 3, Appli |
| 168 | 36 | 63.2 | 869 | 4 | US-10-321-807-100 | Sequence 100, App |
| 169 | 36 | 63.2 | 869 | 4 | US-10-321-807-100 | Sequence 100, App |
| 170 | 36 | 63.2 | 869 | 4 | US-10-314-048A-100 | Sequence 100, App |
| 171 | 36 | 63.2 | 869 | 5 | US-10-897-815-100 | Sequence 100, App |
| 172 | 36 | 63.2 | 869 | 5 | US-10-930-662-100 | Sequence 100, App |
| 173 | 36 | 63.2 | 905 | 4 | US-10-094-989-4 | Sequence 4, Appli |
| 174 | 36 | 63.2 | 909 | 5 | US-10-732-923-8020 | Sequence 8020, Ap |
| 175 | 36 | 63.2 | 920 | 4 | US-10-094-989-2 | Sequence 2, Appli |
| 176 | 36 | 63.2 | 920 | 4 | US-10-236-417-78 | Sequence 78, Appl |
| 177 | 36 | 63.2 | 921 | 3 | US-09-883-825-39 | Sequence 39, Appl |
| 178 | 36 | 63.2 | 921 | 4 | US-10-094-989-5 | Sequence 5, Appli |
| 179 | 36 | 63.2 | 921 | 4 | US-10-697-894-39 | Sequence 39, Appl |
| 180 | 36 | 63.2 | 926 | 4 | US-10-321-807-104 | Sequence 104, App |
| 181 | 36 | 63.2 | 926 | 4 | US-10-321-807-104 | Sequence 104, App |
| 182 | 36 | 63.2 | 926 | 4 | US-10-314-048A-104 | Sequence 104, App |
| 183 | 36 | 63.2 | 926 | 5 | US-10-897-815-104 | Sequence 104, App |
| 184 | 36 | 63.2 | 926 | 5 | US-10-930-662-104 | Sequence 104, App |
| 185 | 36 | 63.2 | 929 | 5 | US-10-220-335-183 | Sequence 183, App |
| 186 | 36 | 63.2 | 941 | 3 | US-09-883-825-45 | Sequence 45, Appl |
| 187 | 36 | 63.2 | 941 | 4 | US-10-697-894-45 | Sequence 45, Appl |
| 188 | 36 | 63.2 | 941 | 5 | US-10-686-390-5 | Sequence 5, Appli |
| 189 | 36 | 63.2 | 941 | 5 | US-10-686-282-5 | Sequence 5, Appli |
| 190 | 36 | 63.2 | 941 | 5 | US-10-686-349-5 | Sequence 5, Appli |
| 191 | 36 | 63.2 | 941 | 5 | US-10-756-149-5245 | Sequence 5245, Ap |
| 192 | 36 | 63.2 | 942 | 3 | US-09-883-825-43 | Sequence 43, Appl |
| 193 | 36 | 63.2 | 942 | 4 | US-10-697-894-43 | Sequence 43, Appl |
| 194 | 36 | 63.2 | 950 | 4 | US-10-108-260A-2928 | Sequence 2928, Ap |
| 195 | 36 | 63.2 | 1000 | 5 | US-10-647-268-8 | Sequence 8, Appli |
| 196 | 36 | 63.2 | 1181 | 3 | US-09-826-509-587 | Sequence 587, App |
| 197 | 36 | 63.2 | 1181 | 5 | US-10-925-095-587 | Sequence 587, App |
| 198 | 36 | 63.2 | 1572 | 4 | US-10-282-122A-69415 | Sequence 69415, A |
| 199 | 36 | 63.2 | 1608 | 3 | US-09-964-956-61 | Sequence 61, Appl |
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| 201 | 36 | 63.2 | 2641 | 3 | US-09-964-956-63 | Sequence 63, Appl |
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| 203 | 36 | 63.2 | 2811 | 3 | US-09-964-956-27 | Sequence 27, Appl |
| 204 | 36 | 63.2 | 2814 | 3 | US-09-964-956-25 | Sequence 25, Appl |
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| 219 | 35 | 61.4 | 77 | 4 | US-10-424-599-248165 | Sequence 248165, |
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| 223 | 35 | 61.4 | 211 | 4 | US-10-083-357-691 | Sequence 691, App |
| 224 | 35 | 61.4 | 255 | 3 | US-09-972-484-41 | Sequence 41, Appl |
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| 232 | 35 | 61.4 | 477 | 4 | US-10-369-493-23077 | Sequence 23077, A |
| 233 | 35 | 61.4 | 554 | 3 | US-09-742-153-22 | Sequence 22, Appl |
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| 240 | 35 | 61.4 | 1101 | 3 | US-09-972-484-54 | Sequence 54, Appl |
| 241 | 35 | 61.4 | 1399 | 3 | US-09-742-153-14 | Sequence 14, Appl |
| 242 | 35 | 61.4 | 1452 | 3 | US-09-887-669-8 | Sequence 8, Appli |
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| 248 | 34 | 59.6 | 9 | 4 | US-10-303-331-103 | Sequence 103, App |
| 249 | 34 | 59.6 | 9 | 5 | US-10-968-732-103 | Sequence 103, App |
| 250 | 34 | 59.6 | 9 | 5 | US-10-971-596-30 | Sequence 30, Appl |
| 251 | 34 | 59.6 | 10 | 5 | US-10-984-514-9 | Sequence 9, Appli |
| 252 | 34 | 59.6 | 13 | 5 | US-10-984-270A-43 | Sequence 43, Appl |
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| 254 | 34 | 59.6 | 21 | 4 | US-10-381-112-428 | Sequence 428, App |
| 255 | 34 | 59.6 | 21 | 4 | US-10-381-112-457 | Sequence 457, App |
| 256 | 34 | 59.6 | 21 | 4 | US-10-381-112-489 | Sequence 489, App |
| 257 | 34 | 59.6 | 21 | 4 | US-10-381-112-490 | Sequence 490, App |
| 258 | 34 | 59.6 | 21 | 4 | US-10-381-112-491 | Sequence 491, App |
| 259 | 34 | 59.6 | 21 | 4 | US-10-381-112-510 | Sequence 510, App |
| 260 | 34 | 59.6 | 21 | 4 | US-10-381-112-511 | Sequence 511, App |
| 261 | 34 | 59.6 | 22 | 4 | US-10-612-818-5 | Sequence 5, Appli |
| 262 | 34 | 59.6 | 22 | 5 | US-10-995-902-5 | Sequence 5, Appli |
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| 264 | 34 | 59.6 | 37 | 4 | US-10-437-963-188198 | Sequence 188198, |
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| 266 | 34 | 59.6 | 48 | 4 | US-10-425-115-273508 | Sequence 273508, |
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| 272 | 34 | 59.6 | 67 | 5 | US-10-901-772-26 | Sequence 26, Appl |
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| 275 | 34 | 59.6 | 70 | 4 | US-10-425-115-332696 | Sequence 332696, |
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| 277 | 34 | 59.6 | 71 | 5 | US-10-971-596-16 | Sequence 16, Appl |
| 278 | 34 | 59.6 | 71 | 5 | US-10-971-596-17 | Sequence 17, Appl |
| 279 | 34 | 59.6 | 71 | 5 | US-10-984-270A-22 | Sequence 22, Appl |
| 280 | 34 | 59.6 | 71 | 5 | US-10-984-270A-23 | Sequence 23, Appl |
| 281 | 34 | 59.6 | 71 | 5 | US-10-984-270A-24 | Sequence 24, Appl |
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| 291 | 34 | 59.6 | 104 | 4 | US-10-424-599-261787 | Sequence 261787, |
| 292 | 34 | 59.6 | 107 | 3 | US-09-764-846-167 | Sequence 167, App |
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| 310 | 34 | 59.6 | 270 | 4 | US-10-303-134-39 | Sequence 39, Appl |
| 311 | 34 | 59.6 | 270 | 4 | US-10-303-162-39 | Sequence 39, Appl |
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| 316 | 34 | 59.6 | 270 | 5 | US-10-821-604-39 | Sequence 39, Appl |
| 317 | 34 | 59.6 | 270 | 5 | US-10-847-983-39 | Sequence 39, Appl |
| 318 | 34 | 59.6 | 270 | 5 | US-10-821-573-39 | Sequence 39, Appl |
| 319 | 34 | 59.6 | 270 | 5 | US-10-850-807-39 | Sequence 39, Appl |
| 320 | 34 | 59.6 | 270 | 5 | US-10-850-125-39 | Sequence 39, Appl |
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| 322 | 34 | 59.6 | 270 | 5 | US-10-962-334-39 | Sequence 39, Appl |
| 323 | 34 | 59.6 | 270 | 5 | US-10-830-997-39 | Sequence 39, Appl |
| 324 | 34 | 59.6 | 270 | 5 | US-10-962-235-39 | Sequence 39, Appl |
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| 328 | 34 | 59.6 | 278 | 5 | US-10-899-771-21 | Sequence 21, Appl |
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| 336 | 34 | 59.6 | 355 | 4 | US-10-251-385-232 | Sequence 232, App |
| 337 | 34 | 59.6 | 355 | 4 | US-10-225-567A-249 | Sequence 249, App |
| 338 | 34 | 59.6 | 355 | 4 | US-10-239-423-82 | Sequence 82, Appl |
| 339 | 34 | 59.6 | 355 | 4 | US-10-741-601-367 | Sequence 367, App |
| 340 | 34 | 59.6 | 355 | 5 | US-10-723-860-958 | Sequence 958, App |
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| 347 | 34 | 59.6 | 383 | 5 | US-10-899-771-23 | Sequence 23, Appl |
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| 352 | 34 | 59.6 | 432 | 4 | US-10-425-115-266645 | Sequence 266645, |
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| 357 | 34 | 59.6 | 550 | 5 | US-10-840-060-108 | Sequence 108, App |
| 358 | 34 | 59.6 | 550 | 6 | US-11-097-143-4137 | Sequence 4137, Ap |
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| 366 | 34 | 59.6 | 776 | 4 | US-10-267-989-24 | Sequence 24, Appl |
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| 406 | 33 | 57.9 | 131 | 3 | US-09-945-301-15 | Sequence 15, Appl |
| 407 | 33 | 57.9 | 131 | 5 | US-10-782-695-30 | Sequence 30, Appl |
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| 409 | 33 | 57.9 | 158 | 4 | US-10-425-115-322446 | Sequence 322446, |
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| 416 | 33 | 57.9 | 187 | 3 | US-09-791-932-65 | Sequence 65, Appl |
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| 418 | 33 | 57.9 | 199 | 4 | US-10-767-701-54115 | Sequence 54115, A |
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| 420 | 33 | 57.9 | 200 | 4 | US-10-105-931-11 | Sequence 11, Appl |
| 421 | 33 | 57.9 | 200 | 4 | US-10-118-984-11 | Sequence 11, Appl |
| 422 | 33 | 57.9 | 200 | 4 | US-10-295-981-11 | Sequence 11, Appl |
| 423 | 33 | 57.9 | 200 | 5 | US-10-843-188-11 | Sequence 11, Appl |
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| 433 | 33 | 57.9 | 272 | 4 | US-10-369-293-4 | Sequence 4, Appli |
| 434 | 33 | 57.9 | 272 | 4 | US-10-285-042-4 | Sequence 4, Appli |
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| 442 | 33 | 57.9 | 320 | 4 | US-10-314-506-30 | Sequence 30, Appl |
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| 455 | 33 | 57.9 | 381 | 5 | US-10-732-923-8012 | Sequence 8012, Ap |
| 456 | 33 | 57.9 | 381 | 5 | US-10-756-149-5241 | Sequence 5241, Ap |
| 457 | 33 | 57.9 | 382 | 5 | US-10-732-923-7912 | Sequence 7912, Ap |
| 458 | 33 | 57.9 | 383 | 5 | US-10-732-923-7681 | Sequence 7681, Ap |
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| 464 | 33 | 57.9 | 396 | 3 | US-09-847-208-13 | Sequence 13, Appl |
| 465 | 33 | 57.9 | 396 | 5 | US-10-809-689-100 | Sequence 100, App |
| 466 | 33 | 57.9 | 397 | 3 | US-09-847-208-17 | Sequence 17, Appl |
| 467 | 33 | 57.9 | 397 | 5 | US-10-809-689-97 | Sequence 97, Appl |
| 468 | 33 | 57.9 | 398 | 3 | US-09-847-208-14 | Sequence 14, Appl |
| 469 | 33 | 57.9 | 398 | 5 | US-10-809-689-99 | Sequence 99, Appl |
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| 475 | 33 | 57.9 | 490 | 4 | US-10-118-984-26 | Sequence 26, Appl |
| 476 | 33 | 57.9 | 490 | 4 | US-10-295-981-26 | Sequence 26, Appl |
| 477 | 33 | 57.9 | 490 | 5 | US-10-843-188-26 | Sequence 26, Appl |
| 478 | 33 | 57.9 | 507 | 4 | US-10-401-194-3 | Sequence 3, Appli |
| 479 | 33 | 57.9 | 537 | 4 | US-10-425-115-229479 | Sequence 229479, |
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| 482 | 33 | 57.9 | 602 | 5 | US-10-498-428-6 | Sequence 6, Appli |
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| 484 | 33 | 57.9 | 676 | 4 | US-10-270-333-24 | Sequence 24, Appl |
| 485 | 33 | 57.9 | 676 | 5 | US-10-489-425-14 | Sequence 14, Appl |
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| 490 | 33 | 57.9 | 705 | 4 | US-10-013-477-22 | Sequence 22, Appl |
| 491 | 33 | 57.9 | 711 | 4 | US-10-424-599-178578 | Sequence 178578, |
| 492 | 33 | 57.9 | 719 | 4 | US-10-106-698-6363 | Sequence 6363, Ap |
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| 497 | 33 | 57.9 | 821 | 5 | US-10-978-282-19 | Sequence 19, Appl |
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| 501 | 33 | 57.9 | 953 | 4 | US-10-118-984-8 | Sequence 8, Appli |
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| 503 | 33 | 57.9 | 953 | 4 | US-10-295-981-8 | Sequence 8, Appli |
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| 505 | 33 | 57.9 | 953 | 4 | US-10-183-770-4 | Sequence 4, Appli |
| 506 | 33 | 57.9 | 953 | 5 | US-10-843-188-8 | Sequence 8, Appli |
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| 524 | 32.5 | 57.0 | 344 | 4 | US-10-187-975-32 | Sequence 32, Appl |
| 525 | 32.5 | 57.0 | 344 | 4 | US-10-187-975-34 | Sequence 34, Appl |
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| 530 | 32.5 | 57.0 | 922 | 4 | US-10-369-493-5105 | Sequence 5105, Ap |
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| 532 | 32 | 56.1 | 21 | 3 | US-09-974-879-491 | Sequence 491, App |
| 533 | 32 | 56.1 | 21 | 3 | US-09-305-736-492 | Sequence 492, App |
| 534 | 32 | 56.1 | 21 | 3 | US-09-818-683-492 | Sequence 492, App |
| 535 | 32 | 56.1 | 21 | 3 | US-09-818-683-492 | Sequence 492, App |
| 536 | 32 | 56.1 | 21 | 4 | US-10-621-401-491 | Sequence 491, App |
| 537 | 32 | 56.1 | 21 | 4 | US-10-381-112-502 | Sequence 502, App |
| 538 | 32 | 56.1 | 21 | 4 | US-10-381-112-587 | Sequence 587, App |

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| 540 | 32 | 56.1 | 31 | 5 | US-10-451-291B-36 | Sequence 36, Appl |
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| 544 | 32 | 56.1 | 50 | 3 | US-09-974-879-184 | Sequence 184, App |
| 545 | 32 | 56.1 | 50 | 4 | US-10-621-401-184 | Sequence 184, App |
| 546 | 32 | 56.1 | 51 | 3 | US-09-796-692-756 | Sequence 756, App |
| 547 | 32 | 56.1 | 51 | 3 | US-09-305-736-184 | Sequence 184, App |
| 548 | 32 | 56.1 | 51 | 3 | US-09-818-683-184 | Sequence 184, App |
| 549 | 32 | 56.1 | 51 | 3 | US-09-818-683-184 | Sequence 184, App |
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| 615 | 32 | 56.1 | 148 | 4 | US-10-437-963-129794 | Sequence 129794, |
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| 629 | 32 | 56.1 | 196 | 4 | US-10-425-114-56638 | Sequence 56638, A |
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| 631 | 32 | 56.1 | 211 | 4 | US-10-424-599-153829 | Sequence 153829, |
| 632 | 32 | 56.1 | 215 | 4 | US-10-767-701-60916 | Sequence 60916, A |
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| 635 | 32 | 56.1 | 231 | 5 | US-10-864-252-627 | Sequence 627, App |
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| 639 | 32 | 56.1 | 251 | 3 | US-09-880-748-1343 | Sequence 1343, Ap |
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| 660 | 32 | 56.1 | 335 | 5 | US-10-623-108-2 | Sequence 2, Appli |
| 661 | 32 | 56.1 | 337 | 4 | US-10-424-599-234877 | Sequence 234877, |
| 662 | 32 | 56.1 | 348 | 4 | US-10-369-493-1824 | Sequence 1824, Ap |
| 663 | 32 | 56.1 | 348 | 4 | US-10-389-566-2282 | Sequence 2282, Ap |
| 664 | 32 | 56.1 | 348 | 5 | US-10-732-923-17964 | Sequence 17964, A |
| 665 | 32 | 56.1 | 348 | 5 | US-10-756-149-4856 | Sequence 4856, Ap |
| 666 | 32 | 56.1 | 351 | 5 | US-10-732-923-1406 | Sequence 1406, Ap |
| 667 | 32 | 56.1 | 355 | 4 | US-10-461-402-8 | Sequence 8, Appli |
| 668 | 32 | 56.1 | 355 | 4 | US-10-389-566-2184 | Sequence 2184, Ap |
| 669 | 32 | 56.1 | 355 | 5 | US-10-732-923-17919 | Sequence 17919, A |
| 670 | 32 | 56.1 | 355 | 5 | US-10-941-635-19 | Sequence 19, Appl |
| 671 | 32 | 56.1 | 356 | 4 | US-10-664-421-19 | Sequence 19, Appl |
| 672 | 32 | 56.1 | 358 | 5 | US-10-945-684-1 | Sequence 1, Appli |
| 673 | 32 | 56.1 | 358 | 5 | US-10-451-291B-10 | Sequence 10, Appl |
| 674 | 32 | 56.1 | 359 | 4 | US-10-114-270-110 | Sequence 110, App |
| 675 | 32 | 56.1 | 359 | 5 | US-10-623-108-4 | Sequence 4, Appli |
| 676 | 32 | 56.1 | 359 | 5 | US-10-623-108-8 | Sequence 8, Appli |
| 677 | 32 | 56.1 | 360 | 4 | US-10-171-311-127 | Sequence 127, App |
| 678 | 32 | 56.1 | 360 | 4 | US-10-233-448-8 | Sequence 8, Appli |
| 679 | 32 | 56.1 | 360 | 4 | US-10-301-822-115 | Sequence 115, App |
| 680 | 32 | 56.1 | 360 | 4 | US-10-170-663-2 | Sequence 2, Appli |
| 681 | 32 | 56.1 | 360 | 4 | US-10-394-322A-20 | Sequence 20, Appl |
| 682 | 32 | 56.1 | 360 | 4 | US-10-664-421-56 | Sequence 56, Appl |
| 683 | 32 | 56.1 | 360 | 5 | US-10-893-072-2 | Sequence 2, Appli |
| 684 | 32 | 56.1 | 360 | 5 | US-10-941-635-56 | Sequence 56, Appl |

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| 686 | 32 | 56.1 | 369 | 4 | US-10-425-115-298023 | Sequence 298023, |
| 687 | 32 | 56.1 | 369 | 5 | US-10-732-923-1421 | Sequence 1421, Ap |
| 688 | 32 | 56.1 | 369 | 5 | US-10-732-923-1456 | Sequence 1456, Ap |
| 689 | 32 | 56.1 | 372 | 5 | US-10-739-930-8132 | Sequence 8132, Ap |
| 690 | 32 | 56.1 | 376 | 4 | US-10-369-493-5689 | Sequence 5689, Ap |
| 691 | 32 | 56.1 | 377 | 4 | US-10-104-580-8 | Sequence 8, Appli |
| 692 | 32 | 56.1 | 377 | 4 | US-10-238-075-546 | Sequence 546, App |
| 693 | 32 | 56.1 | 379 | 4 | US-10-060-065-16 | Sequence 16, Appl |
| 694 | 32 | 56.1 | 379 | 4 | US-10-059-585-37 | Sequence 37, Appl |
| 695 | 32 | 56.1 | 379 | 4 | US-10-233-448-7 | Sequence 7, Appli |
| 696 | 32 | 56.1 | 379 | 4 | US-10-170-663-25 | Sequence 25, Appl |
| 697 | 32 | 56.1 | 379 | 4 | US-10-174-794-14 | Sequence 14, Appl |
| 698 | 32 | 56.1 | 379 | 4 | US-10-394-322A-19 | Sequence 19, Appl |
| 699 | 32 | 56.1 | 379 | 4 | US-10-701-490-8 | Sequence 8, Appli |
| 700 | 32 | 56.1 | 379 | 5 | US-10-735-118-3 | Sequence 3, Appli |
| 701 | 32 | 56.1 | 379 | 5 | US-10-893-072-25 | Sequence 25, Appl |
| 702 | 32 | 56.1 | 379 | 5 | US-10-623-108-6 | Sequence 6, Appli |
| 703 | 32 | 56.1 | 379 | 5 | US-10-945-684-2 | Sequence 2, Appli |
| 704 | 32 | 56.1 | 380 | 4 | US-10-461-402-9 | Sequence 9, Appli |
| 705 | 32 | 56.1 | 381 | 4 | US-10-052-092-29 | Sequence 29, Appl |
| 706 | 32 | 56.1 | 381 | 4 | US-10-437-107-29 | Sequence 29, Appl |
| 707 | 32 | 56.1 | 381 | 5 | US-10-896-419-29 | Sequence 29, Appl |
| 708 | 32 | 56.1 | 381 | 5 | US-10-732-923-7827 | Sequence 7827, Ap |
| 709 | 32 | 56.1 | 388 | 5 | US-10-450-763-48394 | Sequence 48394, A |
| 710 | 32 | 56.1 | 392 | 5 | US-10-732-923-1420 | Sequence 1420, Ap |
| 711 | 32 | 56.1 | 395 | 5 | US-10-732-923-1424 | Sequence 1424, Ap |
| 712 | 32 | 56.1 | 396 | 3 | US-09-849-772-6 | Sequence 6, Appli |
| 713 | 32 | 56.1 | 400 | 4 | US-10-140-372-1 | Sequence 1, Appli |
| 714 | 32 | 56.1 | 400 | 4 | US-10-425-115-302050 | Sequence 302050, |
| 715 | 32 | 56.1 | 400 | 5 | US-10-911-507-1 | Sequence 1, Appli |
| 716 | 32 | 56.1 | 400 | 5 | US-10-857-625-792 | Sequence 792, App |
| 717 | 32 | 56.1 | 403 | 4 | US-10-425-115-231538 | Sequence 231538, |
| 718 | 32 | 56.1 | 407 | 4 | US-10-437-963-129466 | Sequence 129466, |
| 719 | 32 | 56.1 | 410 | 4 | US-10-425-114-51627 | Sequence 51627, A |
| 720 | 32 | 56.1 | 414 | 4 | US-10-424-599-213840 | Sequence 213840, |
| 721 | 32 | 56.1 | 417 | 3 | US-09-742-153-6 | Sequence 6, Appli |
| 722 | 32 | 56.1 | 417 | 3 | US-09-742-153-10 | Sequence 10, Appl |
| 723 | 32 | 56.1 | 424 | 3 | US-09-853-450-16 | Sequence 16, Appl |
| 724 | 32 | 56.1 | 424 | 3 | US-09-849-772-2 | Sequence 2, Appli |
| 725 | 32 | 56.1 | 424 | 5 | US-10-794-923-16 | Sequence 16, Appl |
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| 727 | 32 | 56.1 | 428 | 4 | US-10-425-115-346690 | Sequence 346690, |
| 728 | 32 | 56.1 | 433 | 4 | US-10-101-464A-935 | Sequence 935, App |
| 729 | 32 | 56.1 | 433 | 5 | US-10-864-252-935 | Sequence 935, App |
| 730 | 32 | 56.1 | 443 | 4 | US-10-425-115-225312 | Sequence 225312, |
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| 733 | 32 | 56.1 | 459 | 4 | US-10-424-599-154494 | Sequence 154494, |
| 734 | 32 | 56.1 | 481 | 6 | US-11-097-143-38811 | Sequence 38811, A |
| 735 | 32 | 56.1 | 482 | 4 | US-10-437-963-179213 | Sequence 179213, |
| 736 | 32 | 56.1 | 486 | 4 | US-10-282-122A-43275 | Sequence 43275, A |
| 737 | 32 | 56.1 | 488 | 4 | US-10-282-122A-51259 | Sequence 51259, A |
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| 740 | 32 | 56.1 | 495 | 5 | US-10-732-923-22841 | Sequence 22841, A |
| 741 | 32 | 56.1 | 517 | 5 | US-10-732-923-22839 | Sequence 22839, A |
| 742 | 32 | 56.1 | 531 | 4 | US-10-425-115-302541 | Sequence 302541, |
| 743 | 32 | 56.1 | 539 | 4 | US-10-424-599-213835 | Sequence 213835, |
| 744 | 32 | 56.1 | 556 | 3 | US-09-742-153-24 | Sequence 24, Appl |
| 745 | 32 | 56.1 | 556 | 3 | US-09-742-153-26 | Sequence 26, Appl |
| 746 | 32 | 56.1 | 557 | 4 | US-10-424-599-253343 | Sequence 253343, |
| 747 | 32 | 56.1 | 557 | 4 | US-10-425-115-331448 | Sequence 331448, |
| 748 | 32 | 56.1 | 557 | 5 | US-10-739-930-9071 | Sequence 9071, Ap |
| 749 | 32 | 56.1 | 562 | 4 | US-10-425-115-353012 | Sequence 353012, |
| 750 | 32 | 56.1 | 564 | 4 | US-10-369-493-3734 | Sequence 3734, Ap |
| 751 | 32 | 56.1 | 577 | 3 | US-09-915-515A-1 | Sequence 1, Appli |
| 752 | 32 | 56.1 | 577 | 5 | US-10-839-509-2 | Sequence 2, Appli |
| 753 | 32 | 56.1 | 577 | 5 | US-10-838-834-2 | Sequence 2, Appli |
| 754 | 32 | 56.1 | 577 | 5 | US-10-838-834-20 | Sequence 20, Appl |
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| 756 | 32 | 56.1 | 603 | 4 | US-10-425-115-299632 | Sequence 299632, |
| 757 | 32 | 56.1 | 604 | 4 | US-10-072-036-59 | Sequence 59, Appl |
| 758 | 32 | 56.1 | 605 | 4 | US-10-072-036-41 | Sequence 41, Appl |
| 759 | 32 | 56.1 | 616 | 4 | US-10-369-493-5329 | Sequence 5329, Ap |
| 760 | 32 | 56.1 | 624 | 4 | US-10-072-036-57 | Sequence 57, Appl |
| 761 | 32 | 56.1 | 624 | 4 | US-10-425-115-298727 | Sequence 298727, |
| 762 | 32 | 56.1 | 625 | 4 | US-10-437-963-102943 | Sequence 102943, |
| 763 | 32 | 56.1 | 626 | 4 | US-10-282-122A-62158 | Sequence 62158, A |
| 764 | 32 | 56.1 | 631 | 4 | US-10-072-036-39 | Sequence 39, Appl |
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| 767 | 32 | 56.1 | 686 | 4 | US-10-369-493-3284 | Sequence 3284, Ap |
| 768 | 32 | 56.1 | 688 | 4 | US-10-028-248A-73 | Sequence 73, Appl |
| 769 | 32 | 56.1 | 688 | 4 | US-10-107-782-73 | Sequence 73, Appl |
| 770 | 32 | 56.1 | 690 | 3 | US-09-855-828-15 | Sequence 15, Appl |
| 771 | 32 | 56.1 | 690 | 5 | US-10-978-282-9 | Sequence 9, Appli |
| 772 | 32 | 56.1 | 694 | 3 | US-09-842-758-75 | Sequence 75, Appl |
| 773 | 32 | 56.1 | 694 | 3 | US-09-855-828-14 | Sequence 14, Appl |
| 774 | 32 | 56.1 | 694 | 4 | US-10-345-680-26 | Sequence 26, Appl |
| 775 | 32 | 56.1 | 694 | 4 | US-10-174-333-75 | Sequence 75, Appl |
| 776 | 32 | 56.1 | 694 | 5 | US-10-978-282-11 | Sequence 11, Appl |
| 777 | 32 | 56.1 | 713 | 5 | US-10-450-763-40991 | Sequence 40991, A |
| 778 | 32 | 56.1 | 748 | 3 | US-09-854-799-24 | Sequence 24, Appl |
| 779 | 32 | 56.1 | 748 | 3 | US-09-854-799-28 | Sequence 28, Appl |
| 780 | 32 | 56.1 | 748 | 3 | US-09-854-799-34 | Sequence 34, Appl |
| 781 | 32 | 56.1 | 748 | 4 | US-10-646-874-24 | Sequence 24, Appl |
| 782 | 32 | 56.1 | 748 | 4 | US-10-646-874-28 | Sequence 28, Appl |
| 783 | 32 | 56.1 | 748 | 4 | US-10-646-874-34 | Sequence 34, Appl |
| 784 | 32 | 56.1 | 753 | 3 | US-09-759-130B-205 | Sequence 205, App |
| 785 | 32 | 56.1 | 753 | 4 | US-10-741-790-205 | Sequence 205, App |
| 786 | 32 | 56.1 | 778 | 3 | US-09-759-130B-203 | Sequence 203, App |
| 787 | 32 | 56.1 | 778 | 4 | US-10-741-790-203 | Sequence 203, App |
| 788 | 32 | 56.1 | 788 | 5 | US-10-450-763-44228 | Sequence 44228, A |
| 789 | 32 | 56.1 | 816 | 3 | US-09-759-130B-216 | Sequence 216, App |
| 790 | 32 | 56.1 | 816 | 4 | US-10-741-790-216 | Sequence 216, App |
| 791 | 32 | 56.1 | 819 | 4 | US-10-425-115-231687 | Sequence 231687, |
| 792 | 32 | 56.1 | 839 | 4 | US-10-094-749-2665 | Sequence 2665, Ap |
| 793 | 32 | 56.1 | 840 | 4 | US-10-437-963-194223 | Sequence 194223, |
| 794 | 32 | 56.1 | 905 | 4 | US-10-425-115-308560 | Sequence 308560, |
| 795 | 32 | 56.1 | 909 | 4 | US-10-479-435-28 | Sequence 28, Appl |
| 796 | 32 | 56.1 | 917 | 4 | US-10-369-493-4128 | Sequence 4128, Ap |
| 797 | 32 | 56.1 | 917 | 4 | US-10-425-115-300598 | Sequence 300598, |
| 798 | 32 | 56.1 | 938 | 5 | US-10-450-763-43405 | Sequence 43405, A |
| 799 | 32 | 56.1 | 938 | 5 | US-10-450-763-44801 | Sequence 44801, A |
| 800 | 32 | 56.1 | 942 | 4 | US-10-425-115-332344 | Sequence 332344, |
| 801 | 32 | 56.1 | 981 | 4 | US-10-128-714-3498 | Sequence 3498, Ap |
| 802 | 32 | 56.1 | 1028 | 4 | US-10-197-824-32 | Sequence 32, Appl |
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| 804 | 32 | 56.1 | 1055 | 4 | US-10-343-710-81 | Sequence 81, Appl |
| 805 | 32 | 56.1 | 1058 | 4 | US-10-343-710-79 | Sequence 79, Appl |
| 806 | 32 | 56.1 | 1076 | 4 | US-10-437-963-143084 | Sequence 143084, |
| 807 | 32 | 56.1 | 1103 | 4 | US-10-128-714-8498 | Sequence 8498, Ap |
| 808 | 32 | 56.1 | 1152 | 4 | US-10-437-963-131104 | Sequence 131104, |
| 809 | 32 | 56.1 | 1185 | 3 | US-09-964-956-7 | Sequence 7, Appli |
| 810 | 32 | 56.1 | 1232 | 4 | US-10-425-115-299658 | Sequence 299658, |
| 811 | 32 | 56.1 | 1371 | 4 | US-10-437-963-189169 | Sequence 189169, |
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| 816 | 32 | 56.1 | 1442 | 4 | US-10-408-765A-805 | Sequence 805, App |
| 817 | 32 | 56.1 | 1442 | 5 | US-10-450-763-55960 | Sequence 55960, A |
| 818 | 32 | 56.1 | 1447 | 3 | US-09-797-097-2 | Sequence 2, Appli |
| 819 | 32 | 56.1 | 1447 | 6 | US-11-084-966-2 | Sequence 2, Appli |
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| 821 | 32 | 56.1 | 1454 | 3 | US-09-854-799-22 | Sequence 22, Appl |
| 822 | 32 | 56.1 | 1454 | 3 | US-09-854-799-26 | Sequence 26, Appl |
| 823 | 32 | 56.1 | 1454 | 3 | US-09-854-799-32 | Sequence 32, Appl |
| 824 | 32 | 56.1 | 1454 | 4 | US-10-646-874-22 | Sequence 22, Appl |
| 825 | 32 | 56.1 | 1454 | 4 | US-10-646-874-26 | Sequence 26, Appl |
| 826 | 32 | 56.1 | 1454 | 4 | US-10-646-874-32 | Sequence 32, Appl |
| 827 | 32 | 56.1 | 1487 | 4 | US-10-425-115-339017 | Sequence 339017, |
| 828 | 32 | 56.1 | 1495 | 3 | US-09-742-153-12 | Sequence 12, Appl |
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| 830 | 32 | 56.1 | 1515 | 5 | US-10-450-763-40983 | Sequence 40983, A |

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| 831 | 32 | 56.1 | 1618 | 3 | US-09-742-153-4 | Sequence 4, Appli |
| 832 | 32 | 56.1 | 1622 | 4 | US-10-425-115-231465 | Sequence 231465, |
| 833 | 32 | 56.1 | 1869 | 4 | US-10-425-115-300707 | Sequence 300707, |
| 834 | 32 | 56.1 | 1896 | 4 | US-10-425-115-264121 | Sequence 264121, |
| 835 | 32 | 56.1 | 1947 | 5 | US-10-450-763-45306 | Sequence 45306, A |
| 836 | 32 | 56.1 | 1984 | 6 | US-11-097-143-13965 | Sequence 13965, A |
| 837 | 32 | 56.1 | 2048 | 3 | US-09-815-379-12 | Sequence 12, Appl |
| 838 | 32 | 56.1 | 2057 | 3 | US-09-815-379-10 | Sequence 10, Appl |
| 839 | 32 | 56.1 | 2058 | 3 | US-09-815-379-17 | Sequence 17, Appl |
| 840 | 32 | 56.1 | 2058 | 4 | US-10-021-660-120 | Sequence 120, App |
| 841 | 32 | 56.1 | 2058 | 4 | US-10-211-462-207 | Sequence 207, App |
| 842 | 32 | 56.1 | 2058 | 4 | US-10-648-593-188 | Sequence 188, App |
| 843 | 32 | 56.1 | 2058 | 5 | US-10-723-860-742 | Sequence 742, App |
| 844 | 32 | 56.1 | 2408 | 5 | US-10-450-763-40990 | Sequence 40990, A |
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| 847 | 32 | 56.1 | 3562 | 4 | US-10-341-434-109 | Sequence 109, App |
| 848 | 32 | 56.1 | 4010 | 6 | US-11-097-143-11352 | Sequence 11352, A |
| 849 | 32 | 56.1 | 5303 | 6 | US-11-097-143-30390 | Sequence 30390, A |
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| 851 | 32 | 56.1 | 7349 | 5 | US-10-473-193-46 | Sequence 46, Appl |
| 852 | 31.5 | 55.3 | 11 | 4 | US-10-293-086-31 | Sequence 31, Appl |
| 853 | 31.5 | 55.3 | 73 | 5 | US-10-450-763-45182 | Sequence 45182, A |
| 854 | 31.5 | 55.3 | 85 | 4 | US-10-425-115-267682 | Sequence 267682, |
| 855 | 31.5 | 55.3 | 104 | 4 | US-10-424-599-208094 | Sequence 208094, |
| 856 | 31.5 | 55.3 | 126 | 4 | US-10-437-963-160105 | Sequence 160105, |
| 857 | 31.5 | 55.3 | 143 | 4 | US-10-425-115-260046 | Sequence 260046, |
| 858 | 31.5 | 55.3 | 154 | 4 | US-10-424-599-224998 | Sequence 224998, |
| 859 | 31.5 | 55.3 | 260 | 4 | US-10-424-599-251350 | Sequence 251350, |
| 860 | 31.5 | 55.3 | 296 | 4 | US-10-767-701-45208 | Sequence 45208, A |
| 861 | 31.5 | 55.3 | 517 | 4 | US-10-425-114-37301 | Sequence 37301, A |
| 862 | 31.5 | 55.3 | 562 | 5 | US-10-481-032A-588 | Sequence 588, App |
| 863 | 31.5 | 55.3 | 564 | 4 | US-10-425-115-260050 | Sequence 260050, |
| 864 | 31.5 | 55.3 | 565 | 5 | US-10-481-032A-180 | Sequence 180, App |
| 865 | 31.5 | 55.3 | 567 | 4 | US-10-437-963-125882 | Sequence 125882, |
| 866 | 31.5 | 55.3 | 639 | 4 | US-10-425-114-40571 | Sequence 40571, A |
| 867 | 31.5 | 55.3 | 841 | 6 | US-11-097-143-33093 | Sequence 33093, A |
| 868 | 31 | 54.4 | 13 | 4 | US-10-468-496-1241 | Sequence 1241, Ap |
| 869 | 31 | 54.4 | 13 | 4 | US-10-468-496-1242 | Sequence 1242, Ap |
| 870 | 31 | 54.4 | 14 | 5 | US-10-813-638-1308 | Sequence 1308, Ap |
| 871 | 31 | 54.4 | 17 | 4 | US-10-381-112-230 | Sequence 230, App |
| 872 | 31 | 54.4 | 18 | 4 | US-10-202-915-44 | Sequence 44, Appl |
| 873 | 31 | 54.4 | 18 | 4 | US-10-381-112-187 | Sequence 187, App |
| 874 | 31 | 54.4 | 19 | 4 | US-10-381-112-189 | Sequence 189, App |
| 875 | 31 | 54.4 | 19 | 4 | US-10-381-112-565 | Sequence 565, App |
| 876 | 31 | 54.4 | 19 | 4 | US-10-381-112-579 | Sequence 579, App |
| 877 | 31 | 54.4 | 20 | 4 | US-10-381-112-186 | Sequence 186, App |
| 878 | 31 | 54.4 | 20 | 4 | US-10-381-112-222 | Sequence 222, App |
| 879 | 31 | 54.4 | 20 | 4 | US-10-381-112-595 | Sequence 595, App |
| 880 | 31 | 54.4 | 21 | 4 | US-10-381-112-155 | Sequence 155, App |
| 881 | 31 | 54.4 | 21 | 4 | US-10-381-112-171 | Sequence 171, App |
| 882 | 31 | 54.4 | 21 | 4 | US-10-381-112-205 | Sequence 205, App |
| 883 | 31 | 54.4 | 21 | 4 | US-10-381-112-206 | Sequence 206, App |
| 884 | 31 | 54.4 | 21 | 4 | US-10-381-112-207 | Sequence 207, App |
| 885 | 31 | 54.4 | 21 | 4 | US-10-381-112-217 | Sequence 217, App |
| 886 | 31 | 54.4 | 21 | 4 | US-10-381-112-427 | Sequence 427, App |
| 887 | 31 | 54.4 | 21 | 4 | US-10-381-112-429 | Sequence 429, App |
| 888 | 31 | 54.4 | 21 | 4 | US-10-381-112-430 | Sequence 430, App |
| 889 | 31 | 54.4 | 21 | 4 | US-10-381-112-431 | Sequence 431, App |
| 890 | 31 | 54.4 | 21 | 4 | US-10-381-112-432 | Sequence 432, App |
| 891 | 31 | 54.4 | 21 | 4 | US-10-381-112-433 | Sequence 433, App |
| 892 | 31 | 54.4 | 21 | 4 | US-10-381-112-434 | Sequence 434, App |
| 893 | 31 | 54.4 | 21 | 4 | US-10-381-112-445 | Sequence 445, App |
| 894 | 31 | 54.4 | 21 | 4 | US-10-381-112-447 | Sequence 447, App |
| 895 | 31 | 54.4 | 21 | 4 | US-10-381-112-448 | Sequence 448, App |
| 896 | 31 | 54.4 | 21 | 4 | US-10-381-112-449 | Sequence 449, App |
| 897 | 31 | 54.4 | 21 | 4 | US-10-381-112-450 | Sequence 450, App |
| 898 | 31 | 54.4 | 21 | 4 | US-10-381-112-451 | Sequence 451, App |
| 899 | 31 | 54.4 | 21 | 4 | US-10-381-112-452 | Sequence 452, App |
| 900 | 31 | 54.4 | 21 | 4 | US-10-381-112-453 | Sequence 453, App |
| 901 | 31 | 54.4 | 21 | 4 | US-10-381-112-454 | Sequence 454, App |
| 902 | 31 | 54.4 | 21 | 4 | US-10-381-112-455 | Sequence 455, App |
| 903 | 31 | 54.4 | 21 | 4 | US-10-381-112-456 | Sequence 456, App |
| 904 | 31 | 54.4 | 21 | 4 | US-10-381-112-458 | Sequence 458, App |
| 905 | 31 | 54.4 | 21 | 4 | US-10-381-112-459 | Sequence 459, App |
| 906 | 31 | 54.4 | 21 | 4 | US-10-381-112-460 | Sequence 460, App |
| 907 | 31 | 54.4 | 21 | 4 | US-10-381-112-461 | Sequence 461, App |
| 908 | 31 | 54.4 | 21 | 4 | US-10-381-112-462 | Sequence 462, App |
| 909 | 31 | 54.4 | 21 | 4 | US-10-381-112-463 | Sequence 463, App |
| 910 | 31 | 54.4 | 21 | 4 | US-10-381-112-464 | Sequence 464, App |
| 911 | 31 | 54.4 | 21 | 4 | US-10-381-112-465 | Sequence 465, App |
| 912 | 31 | 54.4 | 21 | 4 | US-10-381-112-466 | Sequence 466, App |
| 913 | 31 | 54.4 | 21 | 4 | US-10-381-112-468 | Sequence 468, App |
| 914 | 31 | 54.4 | 21 | 4 | US-10-381-112-469 | Sequence 469, App |
| 915 | 31 | 54.4 | 21 | 4 | US-10-381-112-485 | Sequence 485, App |
| 916 | 31 | 54.4 | 21 | 4 | US-10-381-112-486 | Sequence 486, App |
| 917 | 31 | 54.4 | 21 | 4 | US-10-381-112-487 | Sequence 487, App |
| 918 | 31 | 54.4 | 21 | 4 | US-10-381-112-488 | Sequence 488, App |
| 919 | 31 | 54.4 | 21 | 4 | US-10-381-112-492 | Sequence 492, App |
| 920 | 31 | 54.4 | 21 | 4 | US-10-381-112-493 | Sequence 493, App |
| 921 | 31 | 54.4 | 21 | 4 | US-10-381-112-494 | Sequence 494, App |
| 922 | 31 | 54.4 | 21 | 4 | US-10-381-112-495 | Sequence 495, App |
| 923 | 31 | 54.4 | 21 | 4 | US-10-381-112-499 | Sequence 499, App |
| 924 | 31 | 54.4 | 21 | 4 | US-10-381-112-508 | Sequence 508, App |
| 925 | 31 | 54.4 | 21 | 4 | US-10-381-112-509 | Sequence 509, App |
| 926 | 31 | 54.4 | 21 | 4 | US-10-381-112-512 | Sequence 512, App |
| 927 | 31 | 54.4 | 21 | 4 | US-10-381-112-513 | Sequence 513, App |
| 928 | 31 | 54.4 | 21 | 4 | US-10-381-112-514 | Sequence 514, App |
| 929 | 31 | 54.4 | 21 | 4 | US-10-381-112-515 | Sequence 515, App |
| 930 | 31 | 54.4 | 21 | 4 | US-10-381-112-516 | Sequence 516, App |
| 931 | 31 | 54.4 | 21 | 4 | US-10-381-112-517 | Sequence 517, App |
| 932 | 31 | 54.4 | 21 | 4 | US-10-381-112-518 | Sequence 518, App |
| 933 | 31 | 54.4 | 21 | 4 | US-10-381-112-519 | Sequence 519, App |
| 934 | 31 | 54.4 | 21 | 4 | US-10-381-112-520 | Sequence 520, App |
| 935 | 31 | 54.4 | 21 | 4 | US-10-381-112-521 | Sequence 521, App |
| 936 | 31 | 54.4 | 21 | 4 | US-10-381-112-522 | Sequence 522, App |
| 937 | 31 | 54.4 | 21 | 4 | US-10-381-112-523 | Sequence 523, App |
| 938 | 31 | 54.4 | 21 | 4 | US-10-381-112-524 | Sequence 524, App |
| 939 | 31 | 54.4 | 21 | 4 | US-10-381-112-525 | Sequence 525, App |
| 940 | 31 | 54.4 | 21 | 4 | US-10-381-112-526 | Sequence 526, App |
| 941 | 31 | 54.4 | 21 | 4 | US-10-381-112-527 | Sequence 527, App |
| 942 | 31 | 54.4 | 21 | 4 | US-10-381-112-528 | Sequence 528, App |
| 943 | 31 | 54.4 | 21 | 4 | US-10-381-112-529 | Sequence 529, App |
| 944 | 31 | 54.4 | 21 | 4 | US-10-381-112-530 | Sequence 530, App |
| 945 | 31 | 54.4 | 21 | 4 | US-10-381-112-531 | Sequence 531, App |
| 946 | 31 | 54.4 | 21 | 4 | US-10-381-112-532 | Sequence 532, App |
| 947 | 31 | 54.4 | 21 | 4 | US-10-381-112-533 | Sequence 533, App |
| 948 | 31 | 54.4 | 21 | 4 | US-10-381-112-534 | Sequence 534, App |
| 949 | 31 | 54.4 | 21 | 4 | US-10-381-112-535 | Sequence 535, App |
| 950 | 31 | 54.4 | 21 | 4 | US-10-381-112-536 | Sequence 536, App |
| 951 | 31 | 54.4 | 21 | 4 | US-10-381-112-537 | Sequence 537, App |
| 952 | 31 | 54.4 | 21 | 4 | US-10-381-112-538 | Sequence 538, App |
| 953 | 31 | 54.4 | 21 | 4 | US-10-381-112-539 | Sequence 539, App |
| 954 | 31 | 54.4 | 21 | 4 | US-10-381-112-540 | Sequence 540, App |
| 955 | 31 | 54.4 | 21 | 4 | US-10-381-112-570 | Sequence 570, App |
| 956 | 31 | 54.4 | 21 | 4 | US-10-381-112-573 | Sequence 573, App |
| 957 | 31 | 54.4 | 21 | 4 | US-10-381-112-574 | Sequence 574, App |
| 958 | 31 | 54.4 | 21 | 4 | US-10-381-112-575 | Sequence 575, App |
| 959 | 31 | 54.4 | 21 | 4 | US-10-381-112-577 | Sequence 577, App |
| 960 | 31 | 54.4 | 21 | 4 | US-10-381-112-578 | Sequence 578, App |
| 961 | 31 | 54.4 | 21 | 4 | US-10-381-112-580 | Sequence 580, App |
| 962 | 31 | 54.4 | 21 | 4 | US-10-381-112-582 | Sequence 582, App |
| 963 | 31 | 54.4 | 21 | 4 | US-10-381-112-583 | Sequence 583, App |
| 964 | 31 | 54.4 | 21 | 4 | US-10-381-112-584 | Sequence 584, App |
| 965 | 31 | 54.4 | 21 | 4 | US-10-381-112-585 | Sequence 585, App |
| 966 | 31 | 54.4 | 21 | 4 | US-10-381-112-586 | Sequence 586, App |
| 967 | 31 | 54.4 | 21 | 4 | US-10-381-112-590 | Sequence 590, App |
| 968 | 31 | 54.4 | 21 | 4 | US-10-381-112-591 | Sequence 591, App |
| 969 | 31 | 54.4 | 21 | 4 | US-10-381-112-594 | Sequence 594, App |
| 970 | 31 | 54.4 | 23 | 4 | US-10-381-112-188 | Sequence 188, App |
| 971 | 31 | 54.4 | 24 | 4 | US-10-381-112-224 | Sequence 224, App |
| 972 | 31 | 54.4 | 24 | 4 | US-10-381-112-541 | Sequence 541, App |
| 973 | 31 | 54.4 | 24 | 4 | US-10-381-112-542 | Sequence 542, App |
| 974 | 31 | 54.4 | 24 | 4 | US-10-381-112-543 | Sequence 543, App |
| 975 | 31 | 54.4 | 24 | 4 | US-10-381-112-544 | Sequence 544, App |
| 976 | 31 | 54.4 | 24 | 4 | US-10-381-112-545 | Sequence 545, App |

| | | | | | | |
|---|---|---|---|---|---|---|
| 977 | 31 | 54.4 | 24 | 4 | US-10-381-112-546 | Sequence 546, App |
| 978 | 31 | 54.4 | 24 | 4 | US-10-381-112-547 | Sequence 547, App |
| 979 | 31 | 54.4 | 24 | 4 | US-10-381-112-548 | Sequence 548, App |
| 980 | 31 | 54.4 | 24 | 4 | US-10-381-112-549 | Sequence 549, App |
| 981 | 31 | 54.4 | 24 | 4 | US-10-381-112-550 | Sequence 550, App |
| 982 | 31 | 54.4 | 26 | 4 | US-10-381-112-225 | Sequence 225, App |
| 983 | 31 | 54.4 | 26 | 4 | US-10-381-112-551 | Sequence 551, App |
| 984 | 31 | 54.4 | 26 | 4 | US-10-381-112-552 | Sequence 552, App |
| 985 | 31 | 54.4 | 26 | 4 | US-10-381-112-553 | Sequence 553, App |
| 986 | 31 | 54.4 | 26 | 4 | US-10-381-112-554 | Sequence 554, App |
| 987 | 31 | 54.4 | 26 | 4 | US-10-381-112-555 | Sequence 555, App |
| 988 | 31 | 54.4 | 30 | 4 | US-10-001-870-137 | Sequence 137, App |
| 989 | 31 | 54.4 | 31 | 3 | US-09-864-761-45826 | Sequence 45826, A |
| 990 | 31 | 54.4 | 33 | 4 | US-10-083-259-20 | Sequence 20, Appl |
| 991 | 31 | 54.4 | 34 | 4 | US-10-425-115-343297 | Sequence 343297, |
| 992 | 31 | 54.4 | 35 | 4 | US-10-425-115-208449 | Sequence 208449, |
| 993 | 31 | 54.4 | 36 | 4 | US-10-424-599-166075 | Sequence 166075, |
| 994 | 31 | 54.4 | 36 | 4 | US-10-437-963-132061 | Sequence 132061, |
| 995 | 31 | 54.4 | 38 | 3 | US-09-864-761-42041 | Sequence 42041, A |
| 996 | 31 | 54.4 | 39 | 4 | US-10-437-963-204706 | Sequence 204706, |
| 997 | 31 | 54.4 | 40 | 4 | US-10-424-599-234637 | Sequence 234637, |
| 998 | 31 | 54.4 | 42 | 4 | US-10-424-599-276705 | Sequence 276705, |
| 999 | 31 | 54.4 | 42 | 4 | US-10-425-115-313253 | Sequence 313253, |
| 1000 | 31 | 54.4 | 44 | 4 | US-10-437-963-129146 | Sequence 129146, |

ALIGNMENTS

RESULT 1
US-10-476-570-32
; Sequence 32, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 32
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 78-92
US-10-476-570-32

Query Match 100.0%; Score 57; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RHYCYSLYG 9
||||||||| 
Db 7 RHYCYSLYG 15

RESULT 2
US-10-476-570-33
; Sequence 33, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 33
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 81-95
US-10-476-570-33

Query Match 100.0%; Score 57; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RHYCYSLYG 9
||||||||| 
Db 4 RHYCYSLYG 12

RESULT 3
US-10-476-570-34
; Sequence 34, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 84-98
US-10-476-570-34

Query Match 100.0%; Score 57; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RHYCYSLYG 9
||||||||| 
Db 1 RHYCYSLYG 9

RESULT 4
US-10-476-570-12
; Sequence 12, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 20
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 76-95
US-10-476-570-12

Query Match 100.0%; Score 57; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.018;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RHYCYSLYG 9
||||||||| 
Db 9 RHYCYSLYG 17

RESULT 5
US-10-751-845-66
; Sequence 66, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 66
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-66

Query Match 100.0%; Score 57; DB 5; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RHYCYSLYG 9
||||||||| 
Db 6 RHYCYSLYG 14

RESULT 6
US-10-476-570-55
; Sequence 55, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 55
; LENGTH: 29
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 80-108
US-10-476-570-55

Query Match 100.0%; Score 57; DB 4; Length 29;
Best Local Similarity 100.0%; Pred. No. 0.025;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RHYCYSLYG 9
||||||||| 
Db 5 RHYCYSLYG 13

RESULT 7
US-10-858-384-8
; Sequence 8, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 8
; LENGTH: 29
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
; OTHER INFORMATION: for E6 of HPV
US-10-858-384-8

Query Match 100.0%; Score 57; DB 5; Length 29;
Best Local Similarity 100.0%; Pred. No. 0.025;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 RHYCYSLYG 9
              |||||||||
Db          5 RHYCYSLYG 13


RESULT 8
US-10-751-845-126
; Sequence 126, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 126
;   LENGTH: 117
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-126

  Query Match             100.0%;  Score 57;  DB 5;  Length 117;
  Best Local Similarity   100.0%;  Pred. No. 0.091;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db         50 RHYCYSLYG 58


RESULT 9
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-10-858-384-2

  Query Match             100.0%;  Score 57;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

'Qy          1 RHYCYSLYG 9
              |||||||||
Db         84 RHYCYSLYG 92


RESULT 10
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
;  APPLICANT: Cuthill, Scott;
;  APPLICANT:  Jackson, Amanda;
;  APPLICANT:  Lewin, David A.;
;  APPLICANT:  Ooi, Chean Eng
;  TITLE OF INVENTION: Complexes and Methods of Using Same
;  FILE REFERENCE: 21402-559
;  CURRENT APPLICATION NUMBER: US/10/367,057
;  CURRENT FILING DATE:  2003-02-14
;  PRIOR APPLICATION NUMBER: 60/256,911
;  PRIOR FILING DATE: 2002-02-14
;  NUMBER OF SEQ ID NOS: 198
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 16
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-367-057-16

  Query Match             100.0%;  Score 57;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db         84 RHYCYSLYG 92


RESULT 11
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

  Query Match             100.0%;  Score 57;  DB 6;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db         84 RHYCYSLYG 92


RESULT 12
US-10-472-724-2
; Sequence 2, Application US/10472724
```

```
; Publication No. US20040171806A1
; GENERAL INFORMATION:
;  APPLICANT: Cid-Arregui, Angel
;  APPLICANT:  Zur Hausen, Harald
;  TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
;  FILE REFERENCE: 4121-154
;  CURRENT APPLICATION NUMBER: US/10/472,724
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP02/03271
;  PRIOR FILING DATE: 2002-03-22
;  PRIOR APPLICATION NUMBER: EP 01107271.7
;  PRIOR FILING DATE: 2001-03-23
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
;   LENGTH: 171
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

  Query Match             100.0%;  Score 57;  DB 4;  Length 171;
  Best Local Similarity   100.0%;  Pred. No. 0.13;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db         89 RHYCYSLYG 97


RESULT 13
US-10-751-845-157
; Sequence 157, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 157
;   LENGTH: 236
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157

  Query Match             100.0%;  Score 57;  DB 5;  Length 236;
  Best Local Similarity   100.0%;  Pred. No. 0.18;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db         50 RHYCYSLYG 58


RESULT 14
US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 158
;   LENGTH: 237
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158

  Query Match             100.0%;  Score 57;  DB 5;  Length 237;
  Best Local Similarity   100.0%;  Pred. No. 0.18;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db         51 RHYCYSLYG 59


RESULT 15
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
;  APPLICANT: KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE: 017753-122
;  CURRENT APPLICATION NUMBER: US/11/072,288
;  CURRENT FILING DATE:  2005-03-07
;  PRIOR APPLICATION NUMBER: US/09/462,993
;  PRIOR FILING DATE: 2000-04-17
;  PRIOR APPLICATION NUMBER: PCT/FR98/01576
;  PRIOR FILING DATE: 1998-07-17
;  PRIOR APPLICATION NUMBER: FR 97/09152
;  PRIOR FILING DATE: 1997-07-18
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

  Query Match             100.0%;  Score 57;  DB 6;  Length 243;
  Best Local Similarity   100.0%;  Pred. No. 0.18;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db        112 RHYCYSLYG 120


RESULT 16
```

```
US-10-751-845-160
; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 160
;   LENGTH: 261
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160

  Query Match             100.0%;  Score 57;  DB 5;  Length 261;
  Best Local Similarity   100.0%;  Pred. No. 0.19;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db         75 RHYCYSLYG 83


RESULT 17
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 57;  DB 3;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db         84 RHYCYSLYG 92


RESULT 18
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-4

  Query Match             100.0%;  Score 57;  DB 4;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 0.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db        190 RHYCYSLYG 198


RESULT 19
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-4

  Query Match             100.0%;  Score 57;  DB 5;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 0.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db        190 RHYCYSLYG 198


RESULT 20
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
```

```
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-10

  Query Match             100.0%;  Score 57;  DB 4;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.21;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db        209 RHYCYSLYG 217


RESULT 21
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
;   OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-10

  Query Match             100.0%;  Score 57;  DB 5;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.21;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db        209 RHYCYSLYG 217


RESULT 22
US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-6

  Query Match             100.0%;  Score 57;  DB 4;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 0.27;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db        190 RHYCYSLYG 198


RESULT 23
US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
;   OTHER INFORMATION: virus type 16)
US-10-899-771-6

  Query Match             100.0%;  Score 57;  DB 5;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 0.27;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              |||||||||
Db        190 RHYCYSLYG 198


RESULT 24
US-10-000-903-14
```

; Sequence 14, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-14

Query Match 100.0%; Score 57; DB 4; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.28;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RHYCYSLYG 9
||||||||| 
Db 209 RHYCYSLYG 217

RESULT 25
US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-14

Query Match 100.0%; Score 57; DB 5; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.28;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RHYCYSLYG 9
||||||||| 
Db 209 RHYCYSLYG 217

RESULT 26
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
; APPLICANT: N.V. Antwerps Innovatiecentrum
; TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
; TITLE OF INVENTION: Polynucleotides by Electroporation
; FILE REFERENCE: 021505wo/JH/ml
; CURRENT APPLICATION NUMBER: US/10/177,390
; CURRENT FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-177-390-6

Query Match 94.7%; Score 54; DB 4; Length 151;
Best Local Similarity 88.9%; Pred. No. 0.36;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RHYCYSLYG 9
|||||:|| 
Db 77 RHYCYSVYG 85

RESULT 27
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-20

Query Match 94.7%; Score 54; DB 5; Length 151;
Best Local Similarity 88.9%; Pred. No. 0.36;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RHYCYSLYG 9
|||||:|| 
Db 77 RHYCYSVYG 85

RESULT 28
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US

```
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-484-063-27

  Query Match             94.7%;  Score 54;  DB 5;  Length 151;
  Best Local Similarity   88.9%;  Pred. No. 0.36;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              ||||||:||
Db         77 RHYCYSVYG 85


RESULT 29
US-10-751-845-88
; Sequence 88, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 88
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-88

  Query Match             91.2%;  Score 52;  DB 5;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.7e+06;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 HYCYSLYG 9
              ||||||||
Db          1 HYCYSLYG 8


RESULT 30
US-10-751-845-91
; Sequence 91, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 91
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-91

  Query Match             91.2%;  Score 52;  DB 5;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.061;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 HYCYSLYG 9
              ||||||||
Db          1 HYCYSLYG 8


RESULT 31
US-10-751-845-93
; Sequence 93, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 93
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-93

  Query Match             89.5%;  Score 51;  DB 5;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.09;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLY 8
              ||||||||
Db          3 RHYCYSLY 10


RESULT 32
US-11-021-949-17
; Sequence 17, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
```

; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 148
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-17

Query Match 78.9%; Score 45; DB 6; Length 148;
Best Local Similarity 88.9%; Pred. No. 11;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 RHYCYSLYG 9
||| |||||
Db 77 RHYQYSLYG 85

RESULT 33
US-11-021-949-15
; Sequence 15, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-15

Query Match 78.9%; Score 45; DB 6; Length 149;
Best Local Similarity 88.9%; Pred. No. 11;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 RHYCYSLYG 9
||| |||||
Db 77 RHYNYSLYG 85

RESULT 34
US-11-021-949-20
; Sequence 20, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 20
; LENGTH: 153
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-20

Query Match 78.9%; Score 45; DB 6; Length 153;
Best Local Similarity 88.9%; Pred. No. 11;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 RHYCYSLYG 9
||| |||||
Db 80 RHYNYSLYG 88

RESULT 35
US-10-239-313A-313
; Sequence 313, Application US/10239313A
; Publication No. US20030175285A1
; GENERAL INFORMATION:
; APPLICANT: KLINGUER - HAMOUR, Christine
; APPLICANT: CORVAIA, Nathalie
; APPLICANT: BECK, Alain
; APPLICANT: GOETSCH, Liliane
; TITLE OF INVENTION: MOLECULE OF PHARMACEUTICAL INTEREST COMPRISING AT ITS
; TITLE OF INVENTION: N-TERMINAL A GLUTAMIC ACID OR A GLUTAMINE IN THE FORM
; TITLE OF INVENTION: OF A PHYSIOLOGICALLY ACCEPTABLE STRONG ACID
; FILE REFERENCE: 343 727 - US
; CURRENT APPLICATION NUMBER: US/10/239,313A
; CURRENT FILING DATE: 2002-09-19
; PRIOR APPLICATION NUMBER: FR 00/03711
; PRIOR FILING DATE: 2000-03-23
; PRIOR APPLICATION NUMBER: PCT 01/70772
; PRIOR FILING DATE: 2001-03-22
; NUMBER OF SEQ ID NOS: 697
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 313
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-239-313A-313

Query Match 77.2%; Score 44; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RHYCYSL 7
|||||||
Db 3 RHYCYSL 9

RESULT 36
US-10-751-845-86
; Sequence 86, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 86
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-86

Query Match 77.2%; Score 44; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 RHYCYSL 7
              |||||||
Db          3 RHYCYSL 9
```

RESULT 37
US-10-751-845-80
; Sequence 80, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 80
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-80

Query Match 77.2%; Score 44; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 RHYCYSL 7
              |||||||
Db          4 RHYCYSL 10
```

RESULT 38
US-10-476-570-31
; Sequence 31, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 31
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 76-90
US-10-476-570-31

Query Match 77.2%; Score 44; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 RHYCYSL 7
              |||||||
Db          9 RHYCYSL 15
```

RESULT 39
US-10-751-845-79
; Sequence 79, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 79
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-79

Query Match 73.7%; Score 42; DB 5; Length 10;
Best Local Similarity 85.7%; Pred. No. 2.7;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```
Qy          3 YCYSLYG 9
              ||||:||
Db          1 YCYSIYG 7
```

RESULT 40
US-11-021-949-16
; Sequence 16, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-16

Query Match 73.7%; Score 42; DB 6; Length 149;
Best Local Similarity 77.8%; Pred. No. 34;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 RHYCYSLYG 9
              ||| ||:||
Db         77 RHYNYSVYG 85


RESULT 41
US-09-755-100-12
; Sequence 12, Application US/09755100
; Patent No. US20020099189A1
; GENERAL INFORMATION:
;  APPLICANT: SAVITZKY, Kinneret et al.
;  TITLE OF INVENTION: NOVEL NUCLEIC ACID AND AMINO ACID SEQUENCES
;  FILE REFERENCE: 2786-0156P
;  CURRENT APPLICATION NUMBER: US/09/755,100
;  CURRENT FILING DATE:  2001-01-08
;  PRIOR APPLICATION NUMBER: IL 128587
;  PRIOR FILING DATE: 1999-02-18
;  PRIOR APPLICATION NUMBER: IL 129439
;  PRIOR FILING DATE: 1999-04-14
;  PRIOR APPLICATION NUMBER: IL 131363
;  PRIOR FILING DATE: 1999-08-11
;  NUMBER OF SEQ ID NOS: 12
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
;   LENGTH: 141
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-755-100-12

  Query Match             71.9%;  Score 41;  DB 3;  Length 141;
  Best Local Similarity   77.8%;  Pred. No. 47;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              || | ||||
Db        101 RHLCVSLYG 109


RESULT 42
US-10-298-965-12
; Sequence 12, Application US/10298965
; Publication No. US20030207808A1
; GENERAL INFORMATION:
;  APPLICANT: SAVITZKY, Kinneret et al.
;  TITLE OF INVENTION: NOVEL NUCLEIC ACID AND AMINO ACID SEQUENCES
;  FILE REFERENCE: 2786-0231P
;  CURRENT APPLICATION NUMBER: US/10/298,965
;  CURRENT FILING DATE:  2001-11-19
;  PRIOR APPLICATION NUMBER: IL 128587
;  PRIOR FILING DATE: 1999-02-18
;  PRIOR APPLICATION NUMBER: IL 129439
;  PRIOR FILING DATE: 1999-04-14
;  PRIOR APPLICATION NUMBER: IL 131363
;  PRIOR FILING DATE: 1999-08-11
;  NUMBER OF SEQ ID NOS: 22
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 12
;   LENGTH: 141
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-298-965-12

  Query Match             71.9%;  Score 41;  DB 4;  Length 141;
  Best Local Similarity   77.8%;  Pred. No. 47;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              || | ||||
Db        101 RHLCVSLYG 109


RESULT 43
US-10-800-665-12
; Sequence 12, Application US/10800665
; Publication No. US20040219583A1
; GENERAL INFORMATION:
;  APPLICANT: K. SAVITZKY et al.
;  TITLE OF INVENTION: NOVEL NUCLEIC ACID AND AMINO ACID SEQUENCES
;  FILE REFERENCE: 2786-0156P
;  CURRENT APPLICATION NUMBER: US/10/800,665
;  CURRENT FILING DATE:  2004-03-16
;  PRIOR APPLICATION NUMBER: US/09/755,100A
;  PRIOR FILING DATE: 2001-01-08
;  NUMBER OF SEQ ID NOS: 16
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 12
;   LENGTH: 141
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-800-665-12

  Query Match             71.9%;  Score 41;  DB 5;  Length 141;
  Best Local Similarity   77.8%;  Pred. No. 47;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              || | ||||
Db        101 RHLCVSLYG 109


RESULT 44
US-10-751-845-75
; Sequence 75, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 75
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-75

  Query Match             70.2%;  Score 40;  DB 5;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 5.8;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYS 6
              ||||||
Db          5 RHYCYS 10


RESULT 45
US-10-094-401-212
; Sequence 212, Application US/10094401
; Publication No. US20030069395A1
; GENERAL INFORMATION:
;  APPLICANT: DYAX CORP.
;  APPLICANT:  Sato, Aaron  K.
;  APPLICANT:  Ley, Arthur C.
;  APPLICANT:  Cohen, Edward  H.
;  TITLE OF INVENTION: SERUM ALBUMIN BINDING MOIETIES
```

```
;  FILE REFERENCE: DYX-026.2 PCT; DYX-026.2 US
;  CURRENT APPLICATION NUMBER: US/10/094,401
;  CURRENT FILING DATE:  2002-03-08
;  PRIOR APPLICATION NUMBER: 60/331,352
;  PRIOR FILING DATE: 2001-03-09
;  PRIOR APPLICATION NUMBER: 60/292,975
;  PRIOR FILING DATE: 2001-05-23
;  NUMBER OF SEQ ID NOS: 271
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 212
;   LENGTH: 18
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: albumin binding peptide
US-10-094-401-212

  Query Match             70.2%;  Score 40;  DB 4;  Length 18;
  Best Local Similarity   66.7%;  Pred. No. 10;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              ||:|  |||
Db          1 RHWCIKLYG 9


RESULT 46
US-10-462-262-180
; Sequence 180, Application US/10462262
; Publication No. US20040009534A1
; GENERAL INFORMATION:
;  APPLICANT: Sato, Aaron K.
;  APPLICANT:  Dawson, Bruce M.
;  TITLE OF INVENTION: PROTEIN ANALYSIS
;  FILE REFERENCE: 10280-052001
;  CURRENT APPLICATION NUMBER: US/10/462,262
;  CURRENT FILING DATE:  2003-06-16
;  PRIOR APPLICATION NUMBER: US 60/388,642
;  PRIOR FILING DATE: 2002-06-14
;  NUMBER OF SEQ ID NOS: 430
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 180
;   LENGTH: 18
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: example of serum albumin-binding agent
US-10-462-262-180

  Query Match             70.2%;  Score 40;  DB 4;  Length 18;
  Best Local Similarity   66.7%;  Pred. No. 10;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              ||:|  |||
Db          1 RHWCIKLYG 9


RESULT 47
US-10-732-923-23922
; Sequence 23922, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
;  APPLICANT: Edgerton, Michael D
;  TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
;  FILE REFERENCE: 38-15(52796)C
;  CURRENT APPLICATION NUMBER: US/10/732,923
;  CURRENT FILING DATE:  2003-12-10
;  PRIOR APPLICATION NUMBER: 10/310,154
;  PRIOR FILING DATE: 2002-12-04
;  NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 23922
;   LENGTH: 438
;   TYPE: PRT
;   ORGANISM: Anopheles gambiae str. PEST
US-10-732-923-23922

  Query Match             66.7%;  Score 38;  DB 5;  Length 438;
  Best Local Similarity   85.7%;  Pred. No. 4.2e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HYCYSLY 8
              | |||||
Db        317 HVCYSLY 323


RESULT 48
US-10-343-710-85
; Sequence 85, Application US/10343710
; Publication No. US20040087478A1
; GENERAL INFORMATION:
;  APPLICANT: GILLEN, Clemens
;  APPLICANT:  WETZELS, Ingrid
;  APPLICANT:  WNENDT, Stephan
;  APPLICANT:  WEIHE, E.
;  APPLICANT:  SCHAEFER, M., K.-H.
;  TITLE OF INVENTION: SCREENING METHOD
;  FILE REFERENCE: 029310.52022US
;  CURRENT APPLICATION NUMBER: US/10/343,710
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP01/09011
;  PRIOR FILING DATE: 2001-08-03
;  NUMBER OF SEQ ID NOS: 157
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 85
;   LENGTH: 1233
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-343-710-85

  Query Match             66.7%;  Score 38;  DB 4;  Length 1233;
  Best Local Similarity   100.0%;  Pred. No. 1.1e+03;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 YCYSLY 8
              ||||||
Db        680 YCYSLY 685


RESULT 49
US-10-343-710-83
; Sequence 83, Application US/10343710
; Publication No. US20040087478A1
; GENERAL INFORMATION:
;  APPLICANT: GILLEN, Clemens
;  APPLICANT:  WETZELS, Ingrid
;  APPLICANT:  WNENDT, Stephan
;  APPLICANT:  WEIHE, E.
;  APPLICANT:  SCHAEFER, M., K.-H.
;  TITLE OF INVENTION: SCREENING METHOD
;  FILE REFERENCE: 029310.52022US
;  CURRENT APPLICATION NUMBER: US/10/343,710
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP01/09011
;  PRIOR FILING DATE: 2001-08-03
;  NUMBER OF SEQ ID NOS: 157
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 83
;   LENGTH: 1234
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-10-343-710-83

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; Sequence 6, Application US/10359012
; Publication No. US20030232419A1
; GENERAL INFORMATION:
;  APPLICANT: THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE
;  APPLICANT:  KOLODKIN, Alex L.
;  APPLICANT:  TERMAN, Jon R.
;  APPLICANT:  MAO, Tianyi
;  APPLICANT:  PASTERKAMP, Ronald J.
;  APPLICANT:  YU, Hung-Hsiang
;  TITLE OF INVENTION: MOLECULES INTERACTING WITH CASL (MICAL) POLYNUCLEOTIDES, POLYPEPT
;  TITLE OF INVENTION:  AND METHODS OF USING THE SAME
;  FILE REFERENCE: JHU1840-3
;  CURRENT APPLICATION NUMBER: US/10/359,012
;  CURRENT FILING DATE:  2003-02-04
;  PRIOR APPLICATION NUMBER: US 60/388,325
;  PRIOR FILING DATE: 2002-06-13
;  PRIOR APPLICATION NUMBER: US 60/384,302
;  PRIOR FILING DATE: 2002-05-30
;  PRIOR APPLICATION NUMBER: US 60/354,178
;  PRIOR FILING DATE: 2002-02-04
;  NUMBER OF SEQ ID NOS: 40
;  SOFTWARE: PatentIn version 3.1
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US-10-359-012-6

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Listing first 1000 summaries

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| 215 | 31 | 54.4 | 482 | 11 | US-11-188-298-9900 | Sequence 9900, Ap |
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| 224 | 31 | 54.4 | 544 | 9 | US-10-233-134-12 | Sequence 12, Appl |
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| 226 | 31 | 54.4 | 559 | 11 | US-11-096-568A-26136 | Sequence 26136, A |
| 227 | 31 | 54.4 | 560 | 11 | US-11-079-463-8548 | Sequence 8548, Ap |
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| 229 | 31 | 54.4 | 567 | 11 | US-11-096-568A-29028 | Sequence 29028, A |
| 230 | 31 | 54.4 | 574 | 11 | US-11-096-568A-26135 | Sequence 26135, A |
| 231 | 31 | 54.4 | 580 | 11 | US-11-096-568A-29108 | Sequence 29108, A |
| 232 | 31 | 54.4 | 586 | 11 | US-11-096-568A-29027 | Sequence 29027, A |
| 233 | 31 | 54.4 | 599 | 11 | US-11-096-568A-29107 | Sequence 29107, A |
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| 277 | 30 | 52.6 | 119 | 11 | US-11-284-260-17 | Sequence 17, Appl |
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| 282 | 30 | 52.6 | 119 | 11 | US-11-284-260-22 | Sequence 22, Appl |
| 283 | 30 | 52.6 | 119 | 11 | US-11-284-260-23 | Sequence 23, Appl |
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| 285 | 30 | 52.6 | 119 | 11 | US-11-284-260-30 | Sequence 30, Appl |
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| 299 | 30 | 52.6 | 119 | 11 | US-11-284-261-24 | Sequence 24, Appl |
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| 307 | 30 | 52.6 | 236 | 11 | US-11-221-900-2 | Sequence 2, Appli |
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| 328 | 30 | 52.6 | 359 | 11 | US-11-209-289-26 | Sequence 26, Appl |
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| 337 | 30 | 52.6 | 456 | 9 | US-10-477-507A-2 | Sequence 2, Appli |
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| 359 | 30 | 52.6 | 642 | 9 | US-10-453-372-568 | Sequence 568, App |
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| 398 | 29 | 50.9 | 95 | 11 | US-11-136-250-215 | Sequence 215, App |
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| 400 | 29 | 50.9 | 96 | 11 | US-11-084-554-217 | Sequence 217, App |
| 401 | 29 | 50.9 | 96 | 11 | US-11-136-250-217 | Sequence 217, App |
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| 409 | 29 | 50.9 | 115 | 11 | US-11-126-978-37 | Sequence 37, Appl |
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| 419 | 29 | 50.9 | 155 | 11 | US-11-172-740-1029 | Sequence 1029, Ap |
| 420 | 29 | 50.9 | 155 | 11 | US-11-172-740-1030 | Sequence 1030, Ap |
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| 447 | 29 | 50.9 | 198 | 9 | US-10-233-134-226 | Sequence 226, App |
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| 462 | 29 | 50.9 | 259 | 11 | US-11-188-298-805 | Sequence 805, App |
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| 464 | 29 | 50.9 | 271 | 11 | US-11-096-568A-5752 | Sequence 5752, Ap |
| 465 | 29 | 50.9 | 283 | 9 | US-10-499-246-7 | Sequence 7, Appli |
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| 467 | 29 | 50.9 | 288 | 11 | US-11-079-463-8164 | Sequence 8164, Ap |
| 468 | 29 | 50.9 | 297 | 8 | US-10-511-937-2997 | Sequence 2997, Ap |
| 469 | 29 | 50.9 | 297 | 11 | US-11-138-949-7 | Sequence 7, Appli |
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| 471 | 29 | 50.9 | 297 | 11 | US-11-190-364-26 | Sequence 26, Appl |
| 472 | 29 | 50.9 | 297 | 11 | US-11-147-780-25 | Sequence 25, Appl |
| 473 | 29 | 50.9 | 297 | 11 | US-11-147-780-26 | Sequence 26, Appl |
| 474 | 29 | 50.9 | 297 | 11 | US-11-096-568A-4553 | Sequence 4553, Ap |
| 475 | 29 | 50.9 | 297 | 11 | US-11-096-568A-15246 | Sequence 15246, A |
| 476 | 29 | 50.9 | 331 | 11 | US-11-172-740-979 | Sequence 979, App |
| 477 | 29 | 50.9 | 336 | 11 | US-11-096-568A-5751 | Sequence 5751, Ap |
| 478 | 29 | 50.9 | 336 | 11 | US-11-096-568A-7234 | Sequence 7234, Ap |
| 479 | 29 | 50.9 | 340 | 11 | US-11-096-568A-12478 | Sequence 12478, A |
| 480 | 29 | 50.9 | 341 | 11 | US-11-096-568A-7233 | Sequence 7233, Ap |
| 481 | 29 | 50.9 | 341 | 11 | US-11-096-568A-32081 | Sequence 32081, A |
| 482 | 29 | 50.9 | 345 | 11 | US-11-072-512-3496 | Sequence 3496, Ap |
| 483 | 29 | 50.9 | 348 | 11 | US-11-096-568A-4552 | Sequence 4552, Ap |
| 484 | 29 | 50.9 | 348 | 11 | US-11-096-568A-15245 | Sequence 15245, A |
| 485 | 29 | 50.9 | 355 | 11 | US-11-096-568A-7232 | Sequence 7232, Ap |
| 486 | 29 | 50.9 | 355 | 11 | US-11-079-463-6354 | Sequence 6354, Ap |
| 487 | 29 | 50.9 | 359 | 9 | US-10-714-887-24 | Sequence 24, Appl |
| 488 | 29 | 50.9 | 370 | 11 | US-11-229-371-15 | Sequence 15, Appl |
| 489 | 29 | 50.9 | 370 | 11 | US-11-228-923-15 | Sequence 15, Appl |
| 490 | 29 | 50.9 | 370 | 11 | US-11-228-875-15 | Sequence 15, Appl |
| 491 | 29 | 50.9 | 373 | 11 | US-11-188-298-6249 | Sequence 6249, Ap |
| 492 | 29 | 50.9 | 376 | 11 | US-11-188-298-17486 | Sequence 17486, A |
| 493 | 29 | 50.9 | 376 | 11 | US-11-188-298-20650 | Sequence 20650, A |
| 494 | 29 | 50.9 | 378 | 11 | US-11-229-371-42 | Sequence 42, Appl |
| 495 | 29 | 50.9 | 378 | 11 | US-11-229-371-88 | Sequence 88, Appl |
| 496 | 29 | 50.9 | 378 | 11 | US-11-228-923-42 | Sequence 42, Appl |
| 497 | 29 | 50.9 | 378 | 11 | US-11-228-923-88 | Sequence 88, Appl |
| 498 | 29 | 50.9 | 378 | 11 | US-11-228-875-42 | Sequence 42, Appl |
| 499 | 29 | 50.9 | 378 | 11 | US-11-228-875-88 | Sequence 88, Appl |
| 500 | 29 | 50.9 | 379 | 11 | US-11-188-298-6334 | Sequence 6334, Ap |
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| 504 | 29 | 50.9 | 394 | 11 | US-11-228-923-94 | Sequence 94, Appl |
| 505 | 29 | 50.9 | 394 | 11 | US-11-228-875-94 | Sequence 94, Appl |
| 506 | 29 | 50.9 | 394 | 11 | US-11-096-568A-9415 | Sequence 9415, Ap |
| 507 | 29 | 50.9 | 398 | 9 | US-10-509-773-10 | Sequence 10, Appl |
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| 511 | 29 | 50.9 | 400 | 11 | US-11-228-875-2 | Sequence 2, Appli |
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| 514 | 29 | 50.9 | 404 | 11 | US-11-188-298-5216 | Sequence 5216, Ap |
| 515 | 29 | 50.9 | 404 | 11 | US-11-188-298-7789 | Sequence 7789, Ap |
| 516 | 29 | 50.9 | 404 | 11 | US-11-188-298-10394 | Sequence 10394, A |
| 517 | 29 | 50.9 | 404 | 11 | US-11-188-298-12267 | Sequence 12267, A |
| 518 | 29 | 50.9 | 404 | 11 | US-11-188-298-12522 | Sequence 12522, A |
| 519 | 29 | 50.9 | 406 | 11 | US-11-096-568A-11823 | Sequence 11823, A |
| 520 | 29 | 50.9 | 406 | 11 | US-11-079-463-5667 | Sequence 5667, Ap |
| 521 | 29 | 50.9 | 408 | 11 | US-11-079-463-6515 | Sequence 6515, Ap |
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| 523 | 29 | 50.9 | 412 | 11 | US-11-096-568A-34438 | Sequence 34438, A |
| 524 | 29 | 50.9 | 414 | 11 | US-11-229-371-45 | Sequence 45, Appl |
| 525 | 29 | 50.9 | 414 | 11 | US-11-229-371-89 | Sequence 89, Appl |
| 526 | 29 | 50.9 | 414 | 11 | US-11-228-923-45 | Sequence 45, Appl |
| 527 | 29 | 50.9 | 414 | 11 | US-11-228-923-89 | Sequence 89, Appl |
| 528 | 29 | 50.9 | 414 | 11 | US-11-228-875-45 | Sequence 45, Appl |
| 529 | 29 | 50.9 | 414 | 11 | US-11-228-875-89 | Sequence 89, Appl |
| 530 | 29 | 50.9 | 418 | 11 | US-11-226-567-8 | Sequence 8, Appli |
| 531 | 29 | 50.9 | 419 | 11 | US-11-087-099-10715 | Sequence 10715, A |
| 532 | 29 | 50.9 | 419 | 11 | US-11-096-568A-26554 | Sequence 26554, A |

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| 534 | 29 | 50.9 | 420 | 11 | US-11-228-923-90 | Sequence 90, Appl |
| 535 | 29 | 50.9 | 420 | 11 | US-11-228-875-90 | Sequence 90, Appl |
| 536 | 29 | 50.9 | 423 | 11 | US-11-096-568A-9414 | Sequence 9414, Ap |
| 537 | 29 | 50.9 | 428 | 11 | US-11-096-568A-11822 | Sequence 11822, A |
| 538 | 29 | 50.9 | 433 | 11 | US-11-096-568A-32079 | Sequence 32079, A |
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| 543 | 29 | 50.9 | 446 | 11 | US-11-228-875-92 | Sequence 92, Appl |
| 544 | 29 | 50.9 | 449 | 11 | US-11-096-568A-9413 | Sequence 9413, Ap |
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| 546 | 29 | 50.9 | 470 | 11 | US-11-228-923-91 | Sequence 91, Appl |
| 547 | 29 | 50.9 | 470 | 11 | US-11-228-875-91 | Sequence 91, Appl |
| 548 | 29 | 50.9 | 482 | 11 | US-11-229-371-87 | Sequence 87, Appl |
| 549 | 29 | 50.9 | 482 | 11 | US-11-229-371-177 | Sequence 177, App |
| 550 | 29 | 50.9 | 482 | 11 | US-11-228-923-87 | Sequence 87, Appl |
| 551 | 29 | 50.9 | 482 | 11 | US-11-228-923-177 | Sequence 177, App |
| 552 | 29 | 50.9 | 482 | 11 | US-11-228-875-87 | Sequence 87, Appl |
| 553 | 29 | 50.9 | 482 | 11 | US-11-228-875-177 | Sequence 177, App |
| 554 | 29 | 50.9 | 482 | 11 | US-11-188-298-18355 | Sequence 18355, A |
| 555 | 29 | 50.9 | 484 | 11 | US-11-096-568A-34437 | Sequence 34437, A |
| 556 | 29 | 50.9 | 485 | 11 | US-11-096-568A-26552 | Sequence 26552, A |
| 557 | 29 | 50.9 | 489 | 11 | US-11-188-298-21094 | Sequence 21094, A |
| 558 | 29 | 50.9 | 499 | 11 | US-11-087-099-6998 | Sequence 6998, Ap |
| 559 | 29 | 50.9 | 499 | 11 | US-11-188-298-17444 | Sequence 17444, A |
| 560 | 29 | 50.9 | 508 | 11 | US-11-079-463-6229 | Sequence 6229, Ap |
| 561 | 29 | 50.9 | 508 | 11 | US-11-188-298-2492 | Sequence 2492, Ap |
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| 563 | 29 | 50.9 | 509 | 9 | US-10-194-487-52 | Sequence 52, Appl |
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| 565 | 29 | 50.9 | 509 | 9 | US-10-195-888-52 | Sequence 52, Appl |
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| 568 | 29 | 50.9 | 516 | 9 | US-10-501-671A-1 | Sequence 1, Appli |
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| 574 | 29 | 50.9 | 533 | 11 | US-11-188-298-12492 | Sequence 12492, A |
| 575 | 29 | 50.9 | 536 | 9 | US-10-453-372-6 | Sequence 6, Appli |
| 576 | 29 | 50.9 | 536 | 9 | US-10-453-372-22 | Sequence 22, Appl |
| 577 | 29 | 50.9 | 536 | 9 | US-10-453-372-24 | Sequence 24, Appl |
| 578 | 29 | 50.9 | 536 | 9 | US-10-453-372-26 | Sequence 26, Appl |
| 579 | 29 | 50.9 | 536 | 9 | US-10-453-372-28 | Sequence 28, Appl |
| 580 | 29 | 50.9 | 536 | 9 | US-10-453-372-30 | Sequence 30, Appl |
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| 583 | 29 | 50.9 | 542 | 9 | US-10-453-372-10 | Sequence 10, Appl |
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| 585 | 29 | 50.9 | 543 | 11 | US-11-087-099-6758 | Sequence 6758, Ap |
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| 587 | 29 | 50.9 | 543 | 11 | US-11-096-568A-29567 | Sequence 29567, A |
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| 592 | 29 | 50.9 | 572 | 9 | US-10-453-372-16 | Sequence 16, Appl |
| 593 | 29 | 50.9 | 575 | 8 | US-10-511-937-2625 | Sequence 2625, Ap |
| 594 | 29 | 50.9 | 580 | 11 | US-11-087-099-3193 | Sequence 3193, Ap |
| 595 | 29 | 50.9 | 580 | 11 | US-11-188-298-3022 | Sequence 3022, Ap |
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| 597 | 29 | 50.9 | 588 | 9 | US-10-453-372-12 | Sequence 12, Appl |
| 598 | 29 | 50.9 | 590 | 11 | US-11-079-463-6352 | Sequence 6352, Ap |
| 599 | 29 | 50.9 | 611 | 11 | US-11-079-463-7700 | Sequence 7700, Ap |
| 600 | 29 | 50.9 | 630 | 11 | US-11-250-759-258 | Sequence 258, App |
| 601 | 29 | 50.9 | 630 | 11 | US-11-250-759-259 | Sequence 259, App |
| 602 | 29 | 50.9 | 630 | 11 | US-11-250-759-260 | Sequence 260, App |
| 603 | 29 | 50.9 | 630 | 11 | US-11-250-759-261 | Sequence 261, App |
| 604 | 29 | 50.9 | 631 | 9 | US-10-995-561-546 | Sequence 546, App |
| 605 | 29 | 50.9 | 668 | 11 | US-11-052-554A-298 | Sequence 298, App |
| 606 | 29 | 50.9 | 746 | 11 | US-11-072-175-169 | Sequence 169, App |
| 607 | 29 | 50.9 | 807 | 11 | US-11-079-463-6963 | Sequence 6963, Ap |
| 608 | 29 | 50.9 | 816 | 11 | US-11-090-439-48 | Sequence 48, Appl |
| 609 | 29 | 50.9 | 818 | 11 | US-11-037-243-111 | Sequence 111, App |
| 610 | 29 | 50.9 | 830 | 11 | US-11-079-463-8070 | Sequence 8070, Ap |
| 611 | 29 | 50.9 | 893 | 8 | US-10-505-928-733 | Sequence 733, App |
| 612 | 29 | 50.9 | 1046 | 11 | US-11-165-819-6 | Sequence 6, Appli |
| 613 | 29 | 50.9 | 1046 | 11 | US-11-165-819-26 | Sequence 26, Appl |
| 614 | 29 | 50.9 | 1115 | 9 | US-10-055-877-160 | Sequence 160, App |
| 615 | 29 | 50.9 | 1123 | 11 | US-11-087-099-4889 | Sequence 4889, Ap |
| 616 | 29 | 50.9 | 1123 | 11 | US-11-087-099-5347 | Sequence 5347, Ap |
| 617 | 29 | 50.9 | 1123 | 11 | US-11-087-099-9833 | Sequence 9833, Ap |
| 618 | 29 | 50.9 | 1124 | 11 | US-11-087-099-4855 | Sequence 4855, Ap |
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| 620 | 29 | 50.9 | 1263 | 11 | US-11-076-163-3 | Sequence 3, Appli |
| 621 | 29 | 50.9 | 1433 | 11 | US-11-114-962-1 | Sequence 1, Appli |
| 622 | 29 | 50.9 | 1463 | 9 | US-10-971-982-3 | Sequence 3, Appli |
| 623 | 29 | 50.9 | 2229 | 11 | US-11-188-298-4532 | Sequence 4532, Ap |
| 624 | 29 | 50.9 | 4913 | 9 | US-10-453-372-1142 | Sequence 1142, Ap |
| 625 | 29 | 50.9 | 4961 | 9 | US-10-453-372-1132 | Sequence 1132, Ap |
| 626 | 28.5 | 50.0 | 137 | 9 | US-10-467-657-262 | Sequence 262, App |
| 627 | 28.5 | 50.0 | 137 | 9 | US-10-467-657-3596 | Sequence 3596, Ap |
| 628 | 28.5 | 50.0 | 1076 | 11 | US-11-098-686-11184 | Sequence 11184, A |
| 629 | 28 | 49.1 | 9 | 9 | US-10-530-061-99 | Sequence 99, Appl |
| 630 | 28 | 49.1 | 9 | 9 | US-10-530-061-107 | Sequence 107, App |
| 631 | 28 | 49.1 | 9 | 9 | US-10-530-061-832 | Sequence 832, App |
| 632 | 28 | 49.1 | 9 | 9 | US-10-530-061-844 | Sequence 844, App |
| 633 | 28 | 49.1 | 13 | 11 | US-11-152-974A-305 | Sequence 305, App |
| 634 | 28 | 49.1 | 13 | 11 | US-11-153-143A-305 | Sequence 305, App |
| 635 | 28 | 49.1 | 18 | 11 | US-11-254-419-142 | Sequence 142, App |
| 636 | 28 | 49.1 | 25 | 11 | US-11-004-399-54 | Sequence 54, Appl |
| 637 | 28 | 49.1 | 25 | 11 | US-11-004-399-424 | Sequence 424, App |
| 638 | 28 | 49.1 | 25 | 11 | US-11-004-399-3646 | Sequence 3646, Ap |
| 639 | 28 | 49.1 | 25 | 11 | US-11-004-399-3857 | Sequence 3857, Ap |
| 640 | 28 | 49.1 | 32 | 9 | US-10-467-657-2218 | Sequence 2218, Ap |
| 641 | 28 | 49.1 | 57 | 9 | US-10-613-744-39 | Sequence 39, Appl |
| 642 | 28 | 49.1 | 58 | 11 | US-11-004-399-2429 | Sequence 2429, Ap |
| 643 | 28 | 49.1 | 65 | 11 | US-11-079-463-10414 | Sequence 10414, A |
| 644 | 28 | 49.1 | 98 | 11 | US-11-096-568A-24039 | Sequence 24039, A |
| 645 | 28 | 49.1 | 98 | 11 | US-11-079-463-9794 | Sequence 9794, Ap |
| 646 | 28 | 49.1 | 106 | 11 | US-11-072-512-2107 | Sequence 2107, Ap |
| 647 | 28 | 49.1 | 107 | 11 | US-11-064-174-44 | Sequence 44, Appl |
| 648 | 28 | 49.1 | 115 | 11 | US-11-188-298-11056 | Sequence 11056, A |
| 649 | 28 | 49.1 | 116 | 11 | US-11-072-512-2172 | Sequence 2172, Ap |
| 650 | 28 | 49.1 | 117 | 11 | US-11-087-099-6150 | Sequence 6150, Ap |
| 651 | 28 | 49.1 | 118 | 9 | US-10-467-657-8112 | Sequence 8112, Ap |
| 652 | 28 | 49.1 | 123 | 9 | US-10-467-657-1358 | Sequence 1358, Ap |
| 653 | 28 | 49.1 | 124 | 11 | US-11-096-568A-2221 | Sequence 2221, Ap |
| 654 | 28 | 49.1 | 125 | 11 | US-11-079-463-5485 | Sequence 5485, Ap |
| 655 | 28 | 49.1 | 132 | 11 | US-11-072-512-2885 | Sequence 2885, Ap |
| 656 | 28 | 49.1 | 134 | 11 | US-11-084-591-2 | Sequence 2, Appli |
| 657 | 28 | 49.1 | 139 | 9 | US-10-533-811-47 | Sequence 47, Appl |
| 658 | 28 | 49.1 | 140 | 11 | US-11-096-568A-11941 | Sequence 11941, A |
| 659 | 28 | 49.1 | 150 | 11 | US-11-188-298-11413 | Sequence 11413, A |
| 660 | 28 | 49.1 | 189 | 11 | US-11-188-298-5166 | Sequence 5166, Ap |
| 661 | 28 | 49.1 | 195 | 11 | US-11-188-298-5332 | Sequence 5332, Ap |
| 662 | 28 | 49.1 | 195 | 11 | US-11-188-298-11116 | Sequence 11116, A |
| 663 | 28 | 49.1 | 195 | 11 | US-11-188-298-21689 | Sequence 21689, A |
| 664 | 28 | 49.1 | 196 | 11 | US-11-188-298-17649 | Sequence 17649, A |
| 665 | 28 | 49.1 | 197 | 11 | US-11-087-099-6108 | Sequence 6108, Ap |
| 666 | 28 | 49.1 | 199 | 11 | US-11-188-298-9873 | Sequence 9873, Ap |
| 667 | 28 | 49.1 | 203 | 11 | US-11-096-568A-3627 | Sequence 3627, Ap |
| 668 | 28 | 49.1 | 203 | 11 | US-11-188-298-20352 | Sequence 20352, A |
| 669 | 28 | 49.1 | 204 | 11 | US-11-188-298-19777 | Sequence 19777, A |
| 670 | 28 | 49.1 | 224 | 11 | US-11-045-004-1051 | Sequence 1051, Ap |
| 671 | 28 | 49.1 | 225 | 11 | US-11-087-099-8013 | Sequence 8013, Ap |
| 672 | 28 | 49.1 | 228 | 11 | US-11-052-554A-366 | Sequence 366, App |
| 673 | 28 | 49.1 | 232 | 11 | US-11-188-298-11685 | Sequence 11685, A |
| 674 | 28 | 49.1 | 233 | 11 | US-11-202-507A-1 | Sequence 1, Appli |
| 675 | 28 | 49.1 | 233 | 11 | US-11-202-507A-3 | Sequence 3, Appli |
| 676 | 28 | 49.1 | 237 | 10 | US-11-301-924-6 | Sequence 6, Appli |
| 677 | 28 | 49.1 | 237 | 11 | US-11-054-515-2110 | Sequence 2110, Ap |
| 678 | 28 | 49.1 | 237 | 11 | US-11-266-444-2110 | Sequence 2110, Ap |

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| 679 | 28 | 49.1 | 244 | 11 | US-11-054-515-1924 | Sequence 1924, Ap |
| 680 | 28 | 49.1 | 244 | 11 | US-11-266-444-1924 | Sequence 1924, Ap |
| 681 | 28 | 49.1 | 247 | 11 | US-11-054-515-1527 | Sequence 1527, Ap |
| 682 | 28 | 49.1 | 247 | 11 | US-11-266-444-1527 | Sequence 1527, Ap |
| 683 | 28 | 49.1 | 248 | 11 | US-11-054-515-959 | Sequence 959, App |
| 684 | 28 | 49.1 | 248 | 11 | US-11-266-444-959 | Sequence 959, App |
| 685 | 28 | 49.1 | 251 | 11 | US-11-054-515-1585 | Sequence 1585, Ap |
| 686 | 28 | 49.1 | 251 | 11 | US-11-266-444-1585 | Sequence 1585, Ap |
| 687 | 28 | 49.1 | 257 | 9 | US-10-496-349B-53 | Sequence 53, Appl |
| 688 | 28 | 49.1 | 260 | 11 | US-11-188-298-20190 | Sequence 20190, A |
| 689 | 28 | 49.1 | 261 | 8 | US-10-511-937-2623 | Sequence 2623, Ap |
| 690 | 28 | 49.1 | 261 | 9 | US-10-821-234-1399 | Sequence 1399, Ap |
| 691 | 28 | 49.1 | 261 | 9 | US-10-613-744-18 | Sequence 18, Appl |
| 692 | 28 | 49.1 | 275 | 11 | US-11-096-568A-21684 | Sequence 21684, A |
| 693 | 28 | 49.1 | 281 | 11 | US-11-096-568A-996 | Sequence 996, App |
| 694 | 28 | 49.1 | 282 | 11 | US-11-098-686-10727 | Sequence 10727, A |
| 695 | 28 | 49.1 | 301 | 9 | US-10-915-002-312 | Sequence 312, App |
| 696 | 28 | 49.1 | 301 | 11 | US-11-096-568A-11588 | Sequence 11588, A |
| 697 | 28 | 49.1 | 303 | 11 | US-11-079-463-7129 | Sequence 7129, Ap |
| 698 | 28 | 49.1 | 303 | 11 | US-11-188-298-2935 | Sequence 2935, Ap |
| 699 | 28 | 49.1 | 305 | 11 | US-11-188-298-11326 | Sequence 11326, A |
| 700 | 28 | 49.1 | 319 | 9 | US-10-793-626-2368 | Sequence 2368, Ap |
| 701 | 28 | 49.1 | 326 | 11 | US-11-037-243-105 | Sequence 105, App |
| 702 | 28 | 49.1 | 335 | 7 | US-09-978-360A-807 | Sequence 807, App |
| 703 | 28 | 49.1 | 341 | 11 | US-11-079-463-7141 | Sequence 7141, Ap |
| 704 | 28 | 49.1 | 344 | 11 | US-11-019-711-44 | Sequence 44, Appl |
| 705 | 28 | 49.1 | 348 | 11 | US-11-096-568A-16451 | Sequence 16451, A |
| 706 | 28 | 49.1 | 350 | 11 | US-11-096-568A-21683 | Sequence 21683, A |
| 707 | 28 | 49.1 | 350 | 11 | US-11-264-096-2215 | Sequence 2215, Ap |
| 708 | 28 | 49.1 | 350 | 11 | US-11-264-096-2216 | Sequence 2216, Ap |
| 709 | 28 | 49.1 | 356 | 11 | US-11-087-099-1946 | Sequence 1946, Ap |
| 710 | 28 | 49.1 | 356 | 11 | US-11-188-298-5172 | Sequence 5172, Ap |
| 711 | 28 | 49.1 | 357 | 11 | US-11-019-711-46 | Sequence 46, Appl |
| 712 | 28 | 49.1 | 358 | 11 | US-11-087-099-9519 | Sequence 9519, Ap |
| 713 | 28 | 49.1 | 359 | 9 | US-10-055-877-272 | Sequence 272, App |
| 714 | 28 | 49.1 | 360 | 11 | US-11-188-298-13399 | Sequence 13399, A |
| 715 | 28 | 49.1 | 361 | 11 | US-11-188-298-2272 | Sequence 2272, Ap |
| 716 | 28 | 49.1 | 365 | 11 | US-11-087-099-5722 | Sequence 5722, Ap |
| 717 | 28 | 49.1 | 367 | 11 | US-11-098-686-10758 | Sequence 10758, A |
| 718 | 28 | 49.1 | 368 | 11 | US-11-072-512-3187 | Sequence 3187, Ap |
| 719 | 28 | 49.1 | 379 | 11 | US-11-096-568A-16450 | Sequence 16450, A |
| 720 | 28 | 49.1 | 386 | 11 | US-11-098-686-10767 | Sequence 10767, A |
| 721 | 28 | 49.1 | 386 | 11 | US-11-188-298-14846 | Sequence 14846, A |
| 722 | 28 | 49.1 | 388 | 11 | US-11-096-568A-21682 | Sequence 21682, A |
| 723 | 28 | 49.1 | 391 | 11 | US-11-087-099-4197 | Sequence 4197, Ap |
| 724 | 28 | 49.1 | 392 | 11 | US-11-188-298-8492 | Sequence 8492, Ap |
| 725 | 28 | 49.1 | 396 | 11 | US-11-087-099-9889 | Sequence 9889, Ap |
| 726 | 28 | 49.1 | 397 | 11 | US-11-087-099-1848 | Sequence 1848, Ap |
| 727 | 28 | 49.1 | 398 | 11 | US-11-079-463-6004 | Sequence 6004, Ap |
| 728 | 28 | 49.1 | 401 | 11 | US-11-079-463-8006 | Sequence 8006, Ap |
| 729 | 28 | 49.1 | 417 | 11 | US-11-186-284-107 | Sequence 107, App |
| 730 | 28 | 49.1 | 417 | 11 | US-11-043-806-385 | Sequence 385, App |
| 731 | 28 | 49.1 | 417 | 11 | US-11-079-463-8014 | Sequence 8014, Ap |
| 732 | 28 | 49.1 | 423 | 11 | US-11-079-463-9021 | Sequence 9021, Ap |
| 733 | 28 | 49.1 | 428 | 11 | US-11-087-099-1255 | Sequence 1255, Ap |
| 734 | 28 | 49.1 | 430 | 11 | US-11-172-740-1216 | Sequence 1216, Ap |
| 735 | 28 | 49.1 | 452 | 11 | US-11-087-099-6588 | Sequence 6588, Ap |
| 736 | 28 | 49.1 | 452 | 11 | US-11-096-568A-11587 | Sequence 11587, A |
| 737 | 28 | 49.1 | 456 | 11 | US-11-079-463-8841 | Sequence 8841, Ap |
| 738 | 28 | 49.1 | 465 | 11 | US-11-045-004-1332 | Sequence 1332, Ap |
| 739 | 28 | 49.1 | 475 | 11 | US-11-096-568A-11586 | Sequence 11586, A |
| 740 | 28 | 49.1 | 481 | 11 | US-11-221-470-52 | Sequence 52, Appl |
| 741 | 28 | 49.1 | 486 | 9 | US-10-467-657-950 | Sequence 950, App |
| 742 | 28 | 49.1 | 491 | 11 | US-11-072-512-3727 | Sequence 3727, Ap |
| 743 | 28 | 49.1 | 496 | 11 | US-11-188-298-17398 | Sequence 17398, A |
| 744 | 28 | 49.1 | 510 | 11 | US-11-087-099-8796 | Sequence 8796, Ap |
| 745 | 28 | 49.1 | 520 | 9 | US-10-878-556A-38 | Sequence 38, Appl |
| 746 | 28 | 49.1 | 520 | 9 | US-10-501-035-335 | Sequence 335, App |
| 747 | 28 | 49.1 | 525 | 11 | US-11-188-298-870 | Sequence 870, App |
| 748 | 28 | 49.1 | 530 | 11 | US-11-188-298-18599 | Sequence 18599, A |
| 749 | 28 | 49.1 | 531 | 11 | US-11-172-740-446 | Sequence 446, App |
| 750 | 28 | 49.1 | 550 | 11 | US-11-188-298-7256 | Sequence 7256, Ap |
| 751 | 28 | 49.1 | 550 | 11 | US-11-188-298-15289 | Sequence 15289, A |
| 752 | 28 | 49.1 | 567 | 11 | US-11-096-568A-2432 | Sequence 2432, Ap |
| 753 | 28 | 49.1 | 579 | 9 | US-10-501-841-107 | Sequence 107, App |
| 754 | 28 | 49.1 | 580 | 11 | US-11-188-298-7307 | Sequence 7307, Ap |
| 755 | 28 | 49.1 | 601 | 11 | US-11-188-298-2811 | Sequence 2811, Ap |
| 756 | 28 | 49.1 | 601 | 11 | US-11-188-298-5257 | Sequence 5257, Ap |
| 757 | 28 | 49.1 | 616 | 11 | US-11-188-298-6543 | Sequence 6543, Ap |
| 758 | 28 | 49.1 | 616 | 11 | US-11-188-298-13709 | Sequence 13709, A |
| 759 | 28 | 49.1 | 617 | 11 | US-11-188-298-21201 | Sequence 21201, A |
| 760 | 28 | 49.1 | 639 | 11 | US-11-079-463-8581 | Sequence 8581, Ap |
| 761 | 28 | 49.1 | 659 | 11 | US-11-188-298-2396 | Sequence 2396, Ap |
| 762 | 28 | 49.1 | 663 | 9 | US-10-486-316-2 | Sequence 2, Appli |
| 763 | 28 | 49.1 | 663 | 9 | US-10-486-316-4 | Sequence 4, Appli |
| 764 | 28 | 49.1 | 663 | 9 | US-10-486-316-6 | Sequence 6, Appli |
| 765 | 28 | 49.1 | 667 | 9 | US-10-793-626-2416 | Sequence 2416, Ap |
| 766 | 28 | 49.1 | 671 | 11 | US-11-202-507A-14 | Sequence 14, Appl |
| 767 | 28 | 49.1 | 671 | 11 | US-11-045-004-1709 | Sequence 1709, Ap |
| 768 | 28 | 49.1 | 672 | 11 | US-11-202-507A-7 | Sequence 7, Appli |
| 769 | 28 | 49.1 | 679 | 11 | US-11-188-298-12823 | Sequence 12823, A |
| 770 | 28 | 49.1 | 693 | 11 | US-11-098-686-11343 | Sequence 11343, A |
| 771 | 28 | 49.1 | 702 | 11 | US-11-188-298-2115 | Sequence 2115, Ap |
| 772 | 28 | 49.1 | 708 | 11 | US-11-045-004-1265 | Sequence 1265, Ap |
| 773 | 28 | 49.1 | 730 | 11 | US-11-221-470-49 | Sequence 49, Appl |
| 774 | 28 | 49.1 | 738 | 11 | US-11-208-288-4 | Sequence 4, Appli |
| 775 | 28 | 49.1 | 752 | 11 | US-11-188-298-1988 | Sequence 1988, Ap |
| 776 | 28 | 49.1 | 752 | 11 | US-11-188-298-12440 | Sequence 12440, A |
| 777 | 28 | 49.1 | 758 | 11 | US-11-245-400-30 | Sequence 30, Appl |
| 778 | 28 | 49.1 | 762 | 11 | US-11-116-939-13 | Sequence 13, Appl |
| 779 | 28 | 49.1 | 766 | 9 | US-10-522-789-2 | Sequence 2, Appli |
| 780 | 28 | 49.1 | 766 | 9 | US-10-501-035-234 | Sequence 234, App |
| 781 | 28 | 49.1 | 766 | 11 | US-11-208-288-2 | Sequence 2, Appli |
| 782 | 28 | 49.1 | 832 | 11 | US-11-221-470-60 | Sequence 60, Appl |
| 783 | 28 | 49.1 | 832 | 11 | US-11-221-470-61 | Sequence 61, Appl |
| 784 | 28 | 49.1 | 832 | 11 | US-11-221-470-62 | Sequence 62, Appl |
| 785 | 28 | 49.1 | 832 | 11 | US-11-221-470-63 | Sequence 63, Appl |
| 786 | 28 | 49.1 | 832 | 11 | US-11-221-470-64 | Sequence 64, Appl |
| 787 | 28 | 49.1 | 842 | 11 | US-11-221-470-50 | Sequence 50, Appl |
| 788 | 28 | 49.1 | 842 | 11 | US-11-221-470-51 | Sequence 51, Appl |
| 789 | 28 | 49.1 | 843 | 11 | US-11-221-470-45 | Sequence 45, Appl |
| 790 | 28 | 49.1 | 843 | 11 | US-11-221-470-47 | Sequence 47, Appl |
| 791 | 28 | 49.1 | 843 | 11 | US-11-221-470-48 | Sequence 48, Appl |
| 792 | 28 | 49.1 | 843 | 11 | US-11-221-470-53 | Sequence 53, Appl |
| 793 | 28 | 49.1 | 843 | 11 | US-11-221-470-54 | Sequence 54, Appl |
| 794 | 28 | 49.1 | 843 | 11 | US-11-221-470-55 | Sequence 55, Appl |
| 795 | 28 | 49.1 | 843 | 11 | US-11-221-470-56 | Sequence 56, Appl |
| 796 | 28 | 49.1 | 843 | 11 | US-11-221-470-59 | Sequence 59, Appl |
| 797 | 28 | 49.1 | 843 | 11 | US-11-188-298-14395 | Sequence 14395, A |
| 798 | 28 | 49.1 | 845 | 11 | US-11-221-470-11 | Sequence 11, Appl |
| 799 | 28 | 49.1 | 845 | 11 | US-11-221-470-46 | Sequence 46, Appl |
| 800 | 28 | 49.1 | 845 | 11 | US-11-221-470-57 | Sequence 57, Appl |
| 801 | 28 | 49.1 | 845 | 11 | US-11-221-470-58 | Sequence 58, Appl |
| 802 | 28 | 49.1 | 876 | 11 | US-11-087-099-10193 | Sequence 10193, A |
| 803 | 28 | 49.1 | 882 | 11 | US-11-169-041-137 | Sequence 137, App |
| 804 | 28 | 49.1 | 1058 | 11 | US-11-096-568A-27717 | Sequence 27717, A |
| 805 | 28 | 49.1 | 1061 | 11 | US-11-096-568A-27716 | Sequence 27716, A |
| 806 | 28 | 49.1 | 1094 | 11 | US-11-096-568A-27715 | Sequence 27715, A |
| 807 | 28 | 49.1 | 1121 | 11 | US-11-113-751-24 | Sequence 24, Appl |
| 808 | 28 | 49.1 | 1128 | 11 | US-11-037-243-97 | Sequence 97, Appl |
| 809 | 28 | 49.1 | 1159 | 11 | US-11-113-751-27 | Sequence 27, Appl |
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| 811 | 28 | 49.1 | 1212 | 9 | US-10-501-035-374 | Sequence 374, App |
| 812 | 28 | 49.1 | 1237 | 11 | US-11-052-554A-95 | Sequence 95, Appl |
| 813 | 28 | 49.1 | 1335 | 11 | US-11-079-463-7531 | Sequence 7531, Ap |
| 814 | 28 | 49.1 | 1398 | 9 | US-10-055-877-46 | Sequence 46, Appl |
| 815 | 28 | 49.1 | 1398 | 9 | US-10-453-372-872 | Sequence 872, App |
| 816 | 28 | 49.1 | 1403 | 9 | US-10-055-877-52 | Sequence 52, Appl |
| 817 | 28 | 49.1 | 1403 | 9 | US-10-453-372-878 | Sequence 878, App |
| 818 | 28 | 49.1 | 1404 | 9 | US-10-055-877-44 | Sequence 44, Appl |
| 819 | 28 | 49.1 | 1404 | 9 | US-10-453-372-870 | Sequence 870, App |
| 820 | 28 | 49.1 | 1418 | 9 | US-10-453-372-864 | Sequence 864, App |
| 821 | 28 | 49.1 | 1450 | 9 | US-10-055-877-48 | Sequence 48, Appl |
| 822 | 28 | 49.1 | 1450 | 9 | US-10-453-372-874 | Sequence 874, App |
| 823 | 28 | 49.1 | 1547 | 9 | US-10-453-372-886 | Sequence 886, App |
| 824 | 28 | 49.1 | 1574 | 9 | US-10-055-877-211 | Sequence 211, App |

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| 825 | 28 | 49.1 | 1577 | 9 | US-10-055-877-54 | Sequence 54, Appl |
| 826 | 28 | 49.1 | 1577 | 9 | US-10-453-372-882 | Sequence 882, App |
| 827 | 28 | 49.1 | 1577 | 9 | US-10-453-372-884 | Sequence 884, App |
| 828 | 28 | 49.1 | 1594 | 9 | US-10-453-372-860 | Sequence 860, App |
| 829 | 28 | 49.1 | 1620 | 9 | US-10-453-372-868 | Sequence 868, App |
| 830 | 28 | 49.1 | 1653 | 9 | US-10-453-372-866 | Sequence 866, App |
| 831 | 28 | 49.1 | 1735 | 9 | US-10-495-083-3 | Sequence 3, Appli |
| 832 | 28 | 49.1 | 1744 | 11 | US-11-182-016-22 | Sequence 22, Appl |
| 833 | 28 | 49.1 | 1980 | 10 | US-11-263-326-128 | Sequence 128, App |
| 834 | 28 | 49.1 | 1980 | 10 | US-11-263-326-134 | Sequence 134, App |
| 835 | 28 | 49.1 | 2362 | 11 | US-11-096-568A-31778 | Sequence 31778, A |
| 836 | 28 | 49.1 | 2433 | 11 | US-11-096-568A-31777 | Sequence 31777, A |
| 837 | 28 | 49.1 | 2471 | 11 | US-11-050-346-68 | Sequence 68, Appl |
| 838 | 28 | 49.1 | 2535 | 11 | US-11-096-568A-31776 | Sequence 31776, A |
| 839 | 27.5 | 48.2 | 21 | 9 | US-10-939-890-510 | Sequence 510, App |
| 840 | 27.5 | 48.2 | 22 | 11 | US-11-152-974A-6 | Sequence 6, Appli |
| 841 | 27.5 | 48.2 | 22 | 11 | US-11-153-143A-6 | Sequence 6, Appli |
| 842 | 27.5 | 48.2 | 25 | 11 | US-11-152-974A-10 | Sequence 10, Appl |
| 843 | 27.5 | 48.2 | 25 | 11 | US-11-153-143A-10 | Sequence 10, Appl |
| 844 | 27.5 | 48.2 | 216 | 11 | US-11-087-099-11293 | Sequence 11293, A |
| 845 | 27.5 | 48.2 | 891 | 11 | US-11-182-016-38 | Sequence 38, Appl |
| 846 | 27 | 47.4 | 6 | 11 | US-11-004-399-1343 | Sequence 1343, Ap |
| 847 | 27 | 47.4 | 17 | 11 | US-11-152-974A-180 | Sequence 180, App |
| 848 | 27 | 47.4 | 17 | 11 | US-11-153-143A-180 | Sequence 180, App |
| 849 | 27 | 47.4 | 19 | 9 | US-10-503-575-247 | Sequence 247, App |
| 850 | 27 | 47.4 | 22 | 11 | US-11-004-399-1721 | Sequence 1721, Ap |
| 851 | 27 | 47.4 | 30 | 9 | US-10-895-064-657 | Sequence 657, App |
| 852 | 27 | 47.4 | 30 | 11 | US-11-129-741-657 | Sequence 657, App |
| 853 | 27 | 47.4 | 31 | 11 | US-11-226-657-188 | Sequence 188, App |
| 854 | 27 | 47.4 | 37 | 9 | US-10-475-204-10 | Sequence 10, Appl |
| 855 | 27 | 47.4 | 37 | 9 | US-10-895-064-677 | Sequence 677, App |
| 856 | 27 | 47.4 | 37 | 11 | US-11-069-642-147 | Sequence 147, App |
| 857 | 27 | 47.4 | 37 | 11 | US-11-006-031-18 | Sequence 18, Appl |
| 858 | 27 | 47.4 | 37 | 11 | US-11-194-110-18 | Sequence 18, Appl |
| 859 | 27 | 47.4 | 37 | 11 | US-11-129-741-677 | Sequence 677, App |
| 860 | 27 | 47.4 | 52 | 11 | US-11-240-769-102 | Sequence 102, App |
| 861 | 27 | 47.4 | 54 | 11 | US-11-096-568A-8318 | Sequence 8318, Ap |
| 862 | 27 | 47.4 | 58 | 11 | US-11-123-896-228 | Sequence 228, App |
| 863 | 27 | 47.4 | 58 | 11 | US-11-123-896-231 | Sequence 231, App |
| 864 | 27 | 47.4 | 58 | 11 | US-11-123-896-234 | Sequence 234, App |
| 865 | 27 | 47.4 | 64 | 11 | US-11-264-096-931 | Sequence 931, App |
| 866 | 27 | 47.4 | 67 | 7 | US-09-978-360A-531 | Sequence 531, App |
| 867 | 27 | 47.4 | 67 | 11 | US-11-226-657-187 | Sequence 187, App |
| 868 | 27 | 47.4 | 67 | 11 | US-11-264-096-880 | Sequence 880, App |
| 869 | 27 | 47.4 | 70 | 11 | US-11-264-096-380 | Sequence 380, App |
| 870 | 27 | 47.4 | 73 | 11 | US-11-144-947-579 | Sequence 579, App |
| 871 | 27 | 47.4 | 75 | 11 | US-11-096-568A-30455 | Sequence 30455, A |
| 872 | 27 | 47.4 | 76 | 11 | US-11-004-399-2082 | Sequence 2082, Ap |
| 873 | 27 | 47.4 | 82 | 9 | US-10-467-657-4790 | Sequence 4790, Ap |
| 874 | 27 | 47.4 | 83 | 11 | US-11-096-568A-14153 | Sequence 14153, A |
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| 876 | 27 | 47.4 | 86 | 11 | US-11-123-896-230 | Sequence 230, App |
| 877 | 27 | 47.4 | 86 | 11 | US-11-123-896-233 | Sequence 233, App |
| 878 | 27 | 47.4 | 86 | 11 | US-11-264-096-881 | Sequence 881, App |
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| 880 | 27 | 47.4 | 89 | 11 | US-11-096-568A-26843 | Sequence 26843, A |
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| 883 | 27 | 47.4 | 98 | 11 | US-11-136-250-219 | Sequence 219, App |
| 884 | 27 | 47.4 | 99 | 7 | US-09-978-360A-411 | Sequence 411, App |
| 885 | 27 | 47.4 | 99 | 7 | US-09-978-360A-706 | Sequence 706, App |
| 886 | 27 | 47.4 | 107 | 9 | US-10-507-662-63 | Sequence 63, Appl |
| 887 | 27 | 47.4 | 108 | 11 | US-11-097-812-27 | Sequence 27, Appl |
| 888 | 27 | 47.4 | 109 | 11 | US-11-096-568A-3602 | Sequence 3602, Ap |
| 889 | 27 | 47.4 | 111 | 11 | US-11-155-775-36 | Sequence 36, Appl |
| 890 | 27 | 47.4 | 116 | 9 | US-10-925-366A-1 | Sequence 1, Appli |
| 891 | 27 | 47.4 | 116 | 11 | US-11-120-308-4 | Sequence 4, Appli |
| 892 | 27 | 47.4 | 116 | 11 | US-11-096-568A-3601 | Sequence 3601, Ap |
| 893 | 27 | 47.4 | 116 | 11 | US-11-102-512-1 | Sequence 1, Appli |
| 894 | 27 | 47.4 | 116 | 11 | US-11-098-758-1 | Sequence 1, Appli |
| 895 | 27 | 47.4 | 116 | 11 | US-11-166-496-8 | Sequence 8, Appli |
| 896 | 27 | 47.4 | 119 | 10 | US-11-254-182-6 | Sequence 6, Appli |
| 897 | 27 | 47.4 | 119 | 10 | US-11-254-182-30 | Sequence 30, Appl |
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| 899 | 27 | 47.4 | 119 | 11 | US-11-106-820-9 | Sequence 9, Appli |
| 900 | 27 | 47.4 | 119 | 11 | US-11-154-337-6 | Sequence 6, Appli |
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| 903 | 27 | 47.4 | 119 | 11 | US-11-143-077-9 | Sequence 9, Appli |
| 904 | 27 | 47.4 | 119 | 11 | US-11-190-364-9 | Sequence 9, Appli |
| 905 | 27 | 47.4 | 119 | 11 | US-11-102-120-6 | Sequence 6, Appli |
| 906 | 27 | 47.4 | 119 | 11 | US-11-147-780-9 | Sequence 9, Appli |
| 907 | 27 | 47.4 | 119 | 11 | US-11-223-361-6 | Sequence 6, Appli |
| 908 | 27 | 47.4 | 119 | 11 | US-11-143-386-9 | Sequence 9, Appli |
| 909 | 27 | 47.4 | 119 | 11 | US-11-187-364-9 | Sequence 9, Appli |
| 910 | 27 | 47.4 | 119 | 11 | US-11-222-587-6 | Sequence 6, Appli |
| 911 | 27 | 47.4 | 119 | 11 | US-11-234-586-6 | Sequence 6, Appli |
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| 913 | 27 | 47.4 | 120 | 11 | US-11-096-568A-24163 | Sequence 24163, A |
| 914 | 27 | 47.4 | 120 | 11 | US-11-098-758-235 | Sequence 235, App |
| 915 | 27 | 47.4 | 122 | 11 | US-11-120-308-6 | Sequence 6, Appli |
| 916 | 27 | 47.4 | 124 | 11 | US-11-120-308-12 | Sequence 12, Appl |
| 917 | 27 | 47.4 | 127 | 11 | US-11-049-536-294 | Sequence 294, App |
| 918 | 27 | 47.4 | 127 | 11 | US-11-199-739-294 | Sequence 294, App |
| 919 | 27 | 47.4 | 128 | 9 | US-10-475-075-481 | Sequence 481, App |
| 920 | 27 | 47.4 | 128 | 11 | US-11-096-568A-14152 | Sequence 14152, A |
| 921 | 27 | 47.4 | 129 | 11 | US-11-172-740-1964 | Sequence 1964, Ap |
| 922 | 27 | 47.4 | 132 | 11 | US-11-096-568A-24162 | Sequence 24162, A |
| 923 | 27 | 47.4 | 132 | 11 | US-11-079-463-7668 | Sequence 7668, Ap |
| 924 | 27 | 47.4 | 134 | 9 | US-10-467-657-6860 | Sequence 6860, Ap |
| 925 | 27 | 47.4 | 136 | 11 | US-11-096-568A-24161 | Sequence 24161, A |
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| 927 | 27 | 47.4 | 143 | 9 | US-10-793-626-370 | Sequence 370, App |
| 928 | 27 | 47.4 | 147 | 11 | US-11-152-497-3 | Sequence 3, Appli |
| 929 | 27 | 47.4 | 151 | 9 | US-10-530-253-21 | Sequence 21, Appl |
| 930 | 27 | 47.4 | 152 | 7 | US-09-978-360A-452 | Sequence 452, App |
| 931 | 27 | 47.4 | 152 | 9 | US-10-216-161A-190 | Sequence 190, App |
| 932 | 27 | 47.4 | 160 | 11 | US-11-055-822-230 | Sequence 230, App |
| 933 | 27 | 47.4 | 160 | 11 | US-11-055-822-718 | Sequence 718, App |
| 934 | 27 | 47.4 | 160 | 11 | US-11-055-822-760 | Sequence 760, App |
| 935 | 27 | 47.4 | 160 | 11 | US-11-096-568A-14151 | Sequence 14151, A |
| 936 | 27 | 47.4 | 160 | 11 | US-11-239-674-108 | Sequence 108, App |
| 937 | 27 | 47.4 | 167 | 11 | US-11-072-512-2077 | Sequence 2077, Ap |
| 938 | 27 | 47.4 | 174 | 11 | US-11-144-947-424 | Sequence 424, App |
| 939 | 27 | 47.4 | 176 | 11 | US-11-072-512-2419 | Sequence 2419, Ap |
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| 941 | 27 | 47.4 | 183 | 11 | US-11-098-686-10705 | Sequence 10705, A |
| 942 | 27 | 47.4 | 188 | 11 | US-11-087-099-922 | Sequence 922, App |
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| 946 | 27 | 47.4 | 193 | 11 | US-11-079-463-8253 | Sequence 8253, Ap |
| 947 | 27 | 47.4 | 194 | 9 | US-10-980-388-104 | Sequence 104, App |
| 948 | 27 | 47.4 | 195 | 11 | US-11-229-769-338 | Sequence 338, App |
| 949 | 27 | 47.4 | 199 | 11 | US-11-096-568A-33979 | Sequence 33979, A |
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| 952 | 27 | 47.4 | 202 | 11 | US-11-087-099-2049 | Sequence 2049, Ap |
| 953 | 27 | 47.4 | 204 | 11 | US-11-096-568A-31360 | Sequence 31360, A |
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| 960 | 27 | 47.4 | 224 | 11 | US-11-130-821-8 | Sequence 8, Appli |
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| 962 | 27 | 47.4 | 232 | 11 | US-11-096-568A-14658 | Sequence 14658, A |
| 963 | 27 | 47.4 | 236 | 11 | US-11-172-740-1334 | Sequence 1334, Ap |
| 964 | 27 | 47.4 | 238 | 11 | US-11-050-857-606 | Sequence 606, App |
| 965 | 27 | 47.4 | 238 | 11 | US-11-051-720-1288 | Sequence 1288, Ap |
| 966 | 27 | 47.4 | 239 | 11 | US-11-096-568A-21249 | Sequence 21249, A |
| 967 | 27 | 47.4 | 240 | 9 | US-10-925-366A-219 | Sequence 219, App |
| 968 | 27 | 47.4 | 240 | 11 | US-11-096-568A-24767 | Sequence 24767, A |
| 969 | 27 | 47.4 | 240 | 11 | US-11-098-758-219 | Sequence 219, App |
| 970 | 27 | 47.4 | 242 | 11 | US-11-096-568A-21248 | Sequence 21248, A |

| | | | | | | |
|---|---|---|---|---|---|---|
| 971 | 27 | 47.4 | 245 | 11 | US-11-054-515-1523 | Sequence 1523, Ap |
| 972 | 27 | 47.4 | 245 | 11 | US-11-266-444-1523 | Sequence 1523, Ap |
| 973 | 27 | 47.4 | 245 | 11 | US-11-188-298-13512 | Sequence 13512, A |
| 974 | 27 | 47.4 | 246 | 11 | US-11-096-568A-19333 | Sequence 19333, A |
| 975 | 27 | 47.4 | 251 | 11 | US-11-188-298-13885 | Sequence 13885, A |
| 976 | 27 | 47.4 | 254 | 9 | US-10-986-405-250 | Sequence 250, App |
| 977 | 27 | 47.4 | 255 | 9 | US-10-467-657-2044 | Sequence 2044, Ap |
| 978 | 27 | 47.4 | 255 | 11 | US-11-051-724-88 | Sequence 88, Appl |
| 979 | 27 | 47.4 | 257 | 11 | US-11-087-099-328 | Sequence 328, App |
| 980 | 27 | 47.4 | 257 | 11 | US-11-045-004-1339 | Sequence 1339, Ap |
| 981 | 27 | 47.4 | 258 | 9 | US-10-506-454-191 | Sequence 191, App |
| 982 | 27 | 47.4 | 262 | 11 | US-11-054-281-89 | Sequence 89, Appl |
| 983 | 27 | 47.4 | 263 | 11 | US-11-096-568A-19332 | Sequence 19332, A |
| 984 | 27 | 47.4 | 266 | 11 | US-11-054-281-88 | Sequence 88, Appl |
| 985 | 27 | 47.4 | 270 | 9 | US-10-986-405-197 | Sequence 197, App |
| 986 | 27 | 47.4 | 272 | 11 | US-11-096-568A-31359 | Sequence 31359, A |
| 987 | 27 | 47.4 | 279 | 9 | US-10-793-626-870 | Sequence 870, App |
| 988 | 27 | 47.4 | 280 | 11 | US-11-096-568A-22848 | Sequence 22848, A |
| 989 | 27 | 47.4 | 283 | 11 | US-11-050-857-603 | Sequence 603, App |
| 990 | 27 | 47.4 | 283 | 11 | US-11-051-720-1285 | Sequence 1285, Ap |
| 991 | 27 | 47.4 | 286 | 11 | US-11-072-512-3361 | Sequence 3361, Ap |
| 992 | 27 | 47.4 | 287 | 11 | US-11-096-568A-16569 | Sequence 16569, A |
| 993 | 27 | 47.4 | 287 | 11 | US-11-188-298-22110 | Sequence 22110, A |
| 994 | 27 | 47.4 | 289 | 11 | US-11-096-568A-16568 | Sequence 16568, A |
| 995 | 27 | 47.4 | 290 | 11 | US-11-096-568A-16567 | Sequence 16567, A |
| 996 | 27 | 47.4 | 291 | 11 | US-11-079-463-9222 | Sequence 9222, Ap |
| 997 | 27 | 47.4 | 292 | 11 | US-11-096-568A-27765 | Sequence 27765, A |
| 998 | 27 | 47.4 | 292 | 11 | US-11-079-463-9800 | Sequence 9800, Ap |
| 999 | 27 | 47.4 | 301 | 11 | US-11-096-568A-18564 | Sequence 18564, A |
| 1000 | 27 | 47.4 | 302 | 9 | US-10-878-556A-61 | Sequence 61, Appl |

ALIGNMENTS

RESULT 1
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
; APPLICANT: HealthBanks Biotech CO. LTD.
; TITLE OF INVENTION: Fusion protein for inhibiting cervcal cancer
; FILE REFERENCE: P7819/0613
; CURRENT APPLICATION NUMBER: US/11/206,138
; CURRENT FILING DATE: 2005-08-18
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-11-206-138-3

Query Match 100.0%; Score 57; DB 11; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RHYCYSLYG 9
||||||||||
Db 84 RHYCYSLYG 92

RESULT 2
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANG, XIAOWU
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; TITLE OF INVENTION: RECOMBINANT REPLICON
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; CURRENT FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match 100.0%; Score 57; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.028;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RHYCYSLYG 9
||||||||||
Db 182 RHYCYSLYG 190

RESULT 3
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-13

Query Match 94.7%; Score 54; DB 9; Length 151;
Best Local Similarity 88.9%; Pred. No. 0.057;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RHYCYSLYG 9
||||||:||
Db 77 RHYCYSVYG 85

RESULT 4
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65

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;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-1

  Query Match             94.7%;  Score 54;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 0.085;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              ||||||:||
Db         77 RHYCYSVYG 85


RESULT 5
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-3

  Query Match             94.7%;  Score 54;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 0.085;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              ||||||:||
Db         77 RHYCYSVYG 85


RESULT 6
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-5

  Query Match             94.7%;  Score 54;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 0.085;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              ||||||:||
Db         77 RHYCYSVYG 85


RESULT 7
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-7

  Query Match             94.7%;  Score 54;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 0.085;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              ||||||:||
Db        174 RHYCYSVYG 182


RESULT 8
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-9

  Query Match             94.7%;  Score 54;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 0.085;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;
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```
Qy          1 RHYCYSLYG 9
              ||||||:||
Db        174 RHYCYSVYG 182


RESULT 9
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-11

  Query Match             94.7%;  Score 54;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 0.085;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              ||||||:||
Db        174 RHYCYSVYG 182


RESULT 10
US-10-530-061-1657
; Sequence 1657, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1657
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-1657

  Query Match             91.2%;  Score 52;  DB 9;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.02;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 HYCYSLYG 9
              ||||||||
Db          1 HYCYSLYG 8


RESULT 11
US-10-530-061-124
; Sequence 124, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 124
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-124

  Query Match             89.5%;  Score 51;  DB 9;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.021;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLY 8
              ||||||||
Db          3 RHYCYSLY 10


RESULT 12
US-10-530-061-127
; Sequence 127, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 127
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-127

  Query Match             89.5%;  Score 51;  DB 9;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.021;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLY 8
              ||||||||
Db          3 RHYCYSLY 10


RESULT 13
```

```
US-10-530-061-850
; Sequence 850, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 850
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-850

  Query Match             89.5%;  Score 51;  DB 9;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.021;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLY 8
              ||||||||
Db          3 RHYCYSLY 10


RESULT 14
US-10-530-061-852
; Sequence 852, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 852
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-852

  Query Match             89.5%;  Score 51;  DB 9;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.021;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLY 8
              ||||||||
Db          3 RHYCYSLY 10


RESULT 15
US-10-530-061-128
; Sequence 128, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 128
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-128

  Query Match             80.7%;  Score 46;  DB 9;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.14;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 HYCYSLY 8
              |||||||
Db          4 HYCYSLY 10


RESULT 16
US-10-530-061-853
; Sequence 853, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 853
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-853

  Query Match             80.7%;  Score 46;  DB 9;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.14;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 HYCYSLY 8
              |||||||
Db          4 HYCYSLY 10


RESULT 17
US-10-530-253-22
; Sequence 22, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
```

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;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 22
;   LENGTH: 148
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 52
US-10-530-253-22

  Query Match             78.9%;  Score 45;  DB 9;  Length 148;
  Best Local Similarity   88.9%;  Pred. No. 1.6;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              ||| |||||
Db         77 RHYQYSLYG 85


RESULT 18
US-10-530-253-24
; Sequence 24, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 24
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 58
US-10-530-253-24

  Query Match             78.9%;  Score 45;  DB 9;  Length 149;
  Best Local Similarity   88.9%;  Pred. No. 1.6;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              ||| |||||
Db         77 RHYNYSLYG 85


RESULT 19
US-10-530-253-17
; Sequence 17, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 33
US-10-530-253-17

  Query Match             73.7%;  Score 42;  DB 9;  Length 149;
  Best Local Similarity   77.8%;  Pred. No. 5;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              ||| ||:||
Db         77 RHYNYSVYG 85


RESULT 20
US-10-530-061-125
; Sequence 125, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 125
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-125

  Query Match             68.4%;  Score 39;  DB 9;  Length 10;
  Best Local Similarity   87.5%;  Pred. No. 1.9;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLY 8
              ||| ||||
Db          3 RHYNYSLY 10


RESULT 21
US-10-530-061-131
; Sequence 131, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
```

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;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 131
;    LENGTH: 10
;    TYPE: PRT
;    ORGANISM: Human papillomavirus
US-10-530-061-131

  Query Match             68.4%;  Score 39;  DB 9;  Length 10;
  Best Local Similarity   87.5%;  Pred. No. 1.9;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLY 8
              ||| ||||
Db          3 RHYNYSLY 10


RESULT 22
US-10-530-061-851
; Sequence 851, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 851
;    LENGTH: 10
;    TYPE: PRT
;    ORGANISM: Human papillomavirus
US-10-530-061-851

  Query Match             68.4%;  Score 39;  DB 9;  Length 10;
  Best Local Similarity   87.5%;  Pred. No. 1.9;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLY 8
              ||| ||||
Db          3 RHYNYSLY 10


RESULT 23
US-10-530-061-856
; Sequence 856, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 856
;    LENGTH: 10
;    TYPE: PRT
;    ORGANISM: Human papillomavirus
US-10-530-061-856

  Query Match             68.4%;  Score 39;  DB 9;  Length 10;
  Best Local Similarity   87.5%;  Pred. No. 1.9;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLY 8
              ||| ||||
Db          3 RHYNYSLY 10


RESULT 24
US-11-079-463-8790
; Sequence 8790, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRAC
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PATH00-03DIV2
;  CURRENT APPLICATION NUMBER: US/11/079,463
;  CURRENT FILING DATE:  2005-03-14
;  PRIOR APPLICATION NUMBER: US 60/128,705
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/540,209
;  PRIOR FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 8790
;    LENGTH: 493
;    TYPE: PRT
;    ORGANISM: B.fragilis
US-11-079-463-8790

  Query Match             68.4%;  Score 39;  DB 11;  Length 493;
  Best Local Similarity   66.7%;  Pred. No. 39;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              :|||  |||
Db        355 KHYCEVLYG 363


RESULT 25
US-10-530-061-804
; Sequence 804, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 804
;    LENGTH: 9
;    TYPE: PRT
;    ORGANISM: Human papillomavirus
US-10-530-061-804
```

```
  Query Match             64.9%;  Score 37;  DB 9;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.9e+05;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 CYSLYG 9
              ||||||
Db          1 CYSLYG 6


RESULT 26
US-10-530-061-1658
; Sequence 1658, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1658
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-1658

  Query Match             64.9%;  Score 37;  DB 9;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 5.4;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 CYSLYG 9
              ||||||
Db          1 CYSLYG 6


RESULT 27
US-11-054-515-2810
; Sequence 2810, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 2810
;   LENGTH: 18
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-2810

  Query Match             64.9%;  Score 37;  DB 11;  Length 18;
  Best Local Similarity   77.8%;  Pred. No. 6.2;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              | |||||  |
Db          2 RLYCYSLTG 10


RESULT 28
US-11-266-444-2810
; Sequence 2810, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulator
;  FILE REFERENCE: PF523P1D1
;  CURRENT APPLICATION NUMBER: US/11/266,444
;  CURRENT FILING DATE:  2005-11-04
;  PRIOR APPLICATION NUMBER: 09/880,746
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2810
;   LENGTH: 18
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-266-444-2810

  Query Match             64.9%;  Score 37;  DB 11;  Length 18;
  Best Local Similarity   77.8%;  Pred. No. 6.2;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              | |||||  |
Db          2 RLYCYSLTG 10


RESULT 29
US-11-054-515-946
; Sequence 946, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
```

```
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 946
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-946

  Query Match             64.9%;  Score 37;  DB 11;  Length 249;
  Best Local Similarity   77.8%;  Pred. No. 49;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              | |||||  |
Db         99 RLYCYSLTG 107


RESULT 30
US-11-266-444-946
; Sequence 946, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulato
;  FILE REFERENCE: PF523P1D1
;  CURRENT APPLICATION NUMBER: US/11/266,444
;  CURRENT FILING DATE:  2005-11-04
;  PRIOR APPLICATION NUMBER: 09/880,746
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 946
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-266-444-946

  Query Match             64.9%;  Score 37;  DB 11;  Length 249;
  Best Local Similarity   77.8%;  Pred. No. 49;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              | |||||  |
Db         99 RLYCYSLTG 107


RESULT 31
US-10-530-061-505
; Sequence 505, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 505
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-505

  Query Match             63.2%;  Score 36;  DB 9;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 5.7;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCY 5
              |||||
Db          6 RHYCY 10


RESULT 32
US-11-079-463-8300
; Sequence 8300, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRAC
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PATH00-03DIV2
;  CURRENT APPLICATION NUMBER: US/11/079,463
;  CURRENT FILING DATE:  2005-03-14
;  PRIOR APPLICATION NUMBER: US 60/128,705
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/540,209
;  PRIOR FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 8300
;   LENGTH: 138
;   TYPE: PRT
;   ORGANISM: B.fragilis
US-11-079-463-8300

  Query Match             63.2%;  Score 36;  DB 11;  Length 138;
  Best Local Similarity   85.7%;  Pred. No. 45;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 YCYSLYG 9
              |||||  |
Db         46 YCYSLLG 52


RESULT 33
US-10-530-253-23
; Sequence 23, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
```

; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 23
; LENGTH: 155
; TYPE: PRT
; ORGANISM: Human papillomavirus type 56
US-10-530-253-23

Query Match 63.2%; Score 36; DB 9; Length 155;
Best Local Similarity 66.7%; Pred. No. 49;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 RHYCYSLYG 9
|:| ||:||
Db 80 RYYDYSVYG 88

RESULT 34
US-10-505-928-497
; Sequence 497, Application US/10505928
; Publication No. US20060088532A1
; GENERAL INFORMATION:
; APPLICANT: Ludwig Institute for Cancer Research et al.
; TITLE OF INVENTION: LYMPHATIC ENDOTHELIAL GENES
; FILE REFERENCE: 28967/39178
; CURRENT APPLICATION NUMBER: US/10/505,928
; CURRENT FILING DATE: 2004-08-27
; PRIOR APPLICATION NUMBER: US 60/363,019
; PRIOR FILING DATE: 2002-03-07
; NUMBER OF SEQ ID NOS: 866
; SOFTWARE: PatentIn 3.2
; SEQ ID NO 497
; LENGTH: 323
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-505-928-497

Query Match 63.2%; Score 36; DB 8; Length 323;
Best Local Similarity 75.0%; Pred. No. 87;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 RHYCYSLY 8
:|| ||||
Db 293 KHYGYSLY 300

RESULT 35
US-10-821-234-1626
; Sequence 1626, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt_SEQ_genes Version 1.0
; SEQ ID NO 1626
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1626

Query Match 63.2%; Score 36; DB 9; Length 394;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RHYCY 5
|||||
Db 356 RHYCY 360

RESULT 36
US-11-072-512-2944
; Sequence 2944, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHIKO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2944
; LENGTH: 786
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-2944

Query Match 63.2%; Score 36; DB 11; Length 786;
Best Local Similarity 71.4%; Pred. No. 1.7e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 HYCYSLY 8
|:|| ||
Db 645 HFCYLLY 651

RESULT 37
US-11-053-100-58
; Sequence 58, Application US/11053100
; Publication No. US20050255554A1
; GENERAL INFORMATION:
; APPLICANT: CHILKOTI, Ashutosh
; TITLE OF INVENTION: FUSION PEPTIDES ISOLATABLE BY PHASE TRANSITION
; FILE REFERENCE: 4176-101 CIP
; CURRENT APPLICATION NUMBER: US/11/053,100
; CURRENT FILING DATE: 2005-02-08
; PRIOR APPLICATION NUMBER: US 09/812,382
; PRIOR FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: US 60/190,659

```
;  PRIOR FILING DATE: 2000-03-20
;  NUMBER OF SEQ ID NOS: 58
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 58
;    LENGTH: 864
;    TYPE: PRT
;    ORGANISM: Artificial
;    FEATURE:
;    OTHER INFORMATION: Synthetic Construct
;    FEATURE:
;    NAME/KEY: MISC_FEATURE
;    LOCATION: (1)..(864)
;    OTHER INFORMATION: pET15b-SD3-ELP1-90-throm-G protein alpha S
US-11-053-100-58

  Query Match             63.2%;  Score 36;  DB 11;  Length 864;
  Best Local Similarity   100.0%;  Pred. No. 1.9e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCY 5
              |||||
Db        826 RHYCY 830


RESULT 38
US-11-063-343-37
; Sequence 37, Application US/11063343
; Publication No. US20050272061A1
; GENERAL INFORMATION:
;  APPLICANT: Petroziello, Joseph M.
;  APPLICANT:  Carter, Paul
;  TITLE OF INVENTION: Expression Profiling in Non-Small Cell
;  TITLE OF INVENTION:  Lung Cancer
;  FILE REFERENCE: 2681-1-003N
;  CURRENT APPLICATION NUMBER: US/11/063,343
;  CURRENT FILING DATE:  2005-02-22
;  PRIOR APPLICATION NUMBER: 60/546,019
;  PRIOR FILING DATE: 2004-02-19
;  NUMBER OF SEQ ID NOS: 50
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 37
;    LENGTH: 929
;    TYPE: PRT
;    ORGANISM: Homo sapiens
US-11-063-343-37

  Query Match             63.2%;  Score 36;  DB 11;  Length 929;
  Best Local Similarity   57.1%;  Pred. No. 2e+02;
  Matches    4;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 HYCYSLY 8
              |||:::|
Db        908 HYCFNVY 914


RESULT 39
US-10-501-035-343
; Sequence 343, Application US/10501035
; Publication No. US20060046249A1
; GENERAL INFORMATION:
;  APPLICANT: Bristol-Myers Squibb Company
;  TITLE OF INVENTION: IDENTIFICATION OF POLYNUCLEOTIDES AND POLYPEPTIDE FOR PREDICTING
;  TITLE OF INVENTION:  ACTIVITY OF COMPOUNDS THAT INTERACT WITH PROTEIN TYROSINE KINASE
;  TITLE OF INVENTION:  AND/OR PROTEIN TYROSINE KINASE PATHWAYS
;  FILE REFERENCE: D0185 PCT
;  CURRENT APPLICATION NUMBER: US/10/501,035
;  CURRENT FILING DATE:  2004-07-09
;  PRIOR APPLICATION NUMBER: US 60/350,061
;  PRIOR FILING DATE: 2002-01-18
;  NUMBER OF SEQ ID NOS: 795
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 343
;    LENGTH: 941
;    TYPE: PRT
;    ORGANISM: Homo sapiens
US-10-501-035-343

  Query Match             63.2%;  Score 36;  DB 9;  Length 941;
  Best Local Similarity   71.4%;  Pred. No. 2e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HYCYSLY 8
              |:|| ||
Db        666 HFCYLLY 672


RESULT 40
US-10-877-346-61
; Sequence 61, Application US/10877346
; Publication No. US20060014153A1
; GENERAL INFORMATION:
;  APPLICANT: Gerlach, Valerie L
;  APPLICANT:  MacDougall, John R
;  APPLICANT:  Smithson, Glennda
;  APPLICANT:  Millet, Isabelle
;  APPLICANT:  Stone, David
;  APPLICANT:  Gunther, Erik
;  APPLICANT:  Ellerman, Karen
;  APPLICANT:  Grosse, William M
;  APPLICANT:  Alsobrook II, John P
;  APPLICANT:  Lepley, Denise M
;  APPLICANT:  Burgess, Catherine E
;  APPLICANT:  Padigaru, Muralidhara
;  APPLICANT:  Kekuda, Ramesh
;  APPLICANT:  Spytek, Kimberly A
;  APPLICANT:  Leach, Martin D
;  APPLICANT:  Shimkets, Richard A
;  TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
;  FILE REFERENCE: 21402-124
;  CURRENT APPLICATION NUMBER: US/10/877,346
;  CURRENT FILING DATE:  2004-06-25
;  PRIOR APPLICATION NUMBER: US/09/964,956
;  PRIOR FILING DATE: 2001-09-26
;  PRIOR APPLICATION NUMBER: 60/235,631
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: 60/235,633
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: 60/235,808
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: 60/236,064
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: 60/236,065
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: 60/236,066
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: 60/236,135
;  PRIOR FILING DATE: 2000-09-28
;  PRIOR APPLICATION NUMBER: 60/237,434
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/238,321
;  PRIOR FILING DATE: 2000-10-05
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 127
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 61
;    LENGTH: 1608
;    TYPE: PRT
;    ORGANISM: Homo sapiens
US-10-877-346-61

  Query Match             63.2%;  Score 36;  DB 9;  Length 1608;
  Best Local Similarity   100.0%;  Pred. No. 3e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCY 5
              |||||
```

```
Db       1086 RHYCY 1090


RESULT 41
US-10-877-346-60
; Sequence 60, Application US/10877346
; Publication No. US20060014153A1
; GENERAL INFORMATION:
;  APPLICANT: Gerlach, Valerie L
;  APPLICANT:  MacDougall, John R
;  APPLICANT:  Smithson, Glennda
;  APPLICANT:  Millet, Isabelle
;  APPLICANT:  Stone, David
;  APPLICANT:  Gunther, Erik
;  APPLICANT:  Ellerman, Karen
;  APPLICANT:  Grosse, William M
;  APPLICANT:  Alsobrook II, John P
;  APPLICANT:  Lepley, Denise M
;  APPLICANT:  Burgess, Catherine E
;  APPLICANT:  Padigaru, Muralidhara
;  APPLICANT:  Kekuda, Ramesh
;  APPLICANT:  Spytek, Kimberly A
;  APPLICANT:  Leach, Martin D
;  APPLICANT:  Shimkets, Richard A
;  TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
;  FILE REFERENCE: 21402-124
;  CURRENT APPLICATION NUMBER: US/10/877,346
;  CURRENT FILING DATE:  2004-06-25
;  PRIOR APPLICATION NUMBER: US/09/964,956
;  PRIOR FILING DATE: 2001-09-26
;  PRIOR APPLICATION NUMBER: 60/235,631
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: 60/235,633
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: 60/235,808
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: 60/236,064
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: 60/236,065
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: 60/236,066
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: 60/236,135
;  PRIOR FILING DATE: 2000-09-28
;  PRIOR APPLICATION NUMBER: 60/237,434
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/238,321
;  PRIOR FILING DATE: 2000-10-05
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 127
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 60
;   LENGTH: 1788
;   TYPE: PRT
;   ORGANISM: Rattus norvegicus
US-10-877-346-60

  Query Match             63.2%;  Score 36;  DB 9;  Length 1788;
  Best Local Similarity   100.0%;  Pred. No. 3.3e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCY 5
              |||||
Db       1266 RHYCY 1270


RESULT 42
US-10-877-346-63
; Sequence 63, Application US/10877346
; Publication No. US20060014153A1
; GENERAL INFORMATION:
;  APPLICANT: Gerlach, Valerie L
;  APPLICANT:  MacDougall, John R
;  APPLICANT:  Smithson, Glennda
;  APPLICANT:  Millet, Isabelle
;  APPLICANT:  Stone, David
;  APPLICANT:  Gunther, Erik
;  APPLICANT:  Ellerman, Karen
;  APPLICANT:  Grosse, William M
;  APPLICANT:  Alsobrook II, John P
;  APPLICANT:  Lepley, Denise M
;  APPLICANT:  Burgess, Catherine E
;  APPLICANT:  Padigaru, Muralidhara
;  APPLICANT:  Kekuda, Ramesh
;  APPLICANT:  Spytek, Kimberly A
;  APPLICANT:  Leach, Martin D
;  APPLICANT:  Shimkets, Richard A
;  TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
;  FILE REFERENCE: 21402-124
;  CURRENT APPLICATION NUMBER: US/10/877,346
;  CURRENT FILING DATE:  2004-06-25
;  PRIOR APPLICATION NUMBER: US/09/964,956
;  PRIOR FILING DATE: 2001-09-26
;  PRIOR APPLICATION NUMBER: 60/235,631
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: 60/235,633
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: 60/235,808
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: 60/236,064
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: 60/236,065
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: 60/236,066
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: 60/236,135
;  PRIOR FILING DATE: 2000-09-28
;  PRIOR APPLICATION NUMBER: 60/237,434
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/238,321
;  PRIOR FILING DATE: 2000-10-05
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 127
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 63
;   LENGTH: 2641
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-877-346-63

  Query Match             63.2%;  Score 36;  DB 9;  Length 2641;
  Best Local Similarity   100.0%;  Pred. No. 4.5e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCY 5
              |||||
Db       2119 RHYCY 2123


RESULT 43
US-10-877-346-27
; Sequence 27, Application US/10877346
; Publication No. US20060014153A1
; GENERAL INFORMATION:
;  APPLICANT: Gerlach, Valerie L
;  APPLICANT:  MacDougall, John R
;  APPLICANT:  Smithson, Glennda
;  APPLICANT:  Millet, Isabelle
;  APPLICANT:  Stone, David
;  APPLICANT:  Gunther, Erik
;  APPLICANT:  Ellerman, Karen
;  APPLICANT:  Grosse, William M
;  APPLICANT:  Alsobrook II, John P
;  APPLICANT:  Lepley, Denise M
;  APPLICANT:  Burgess, Catherine E
;  APPLICANT:  Padigaru, Muralidhara
```

```
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Leach, Martin D
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-124
; CURRENT APPLICATION NUMBER: US/10/877,346
; CURRENT FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US/09/964,956
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/235,631
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,633
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,808
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,064
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,065
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,066
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,135
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/237,434
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/238,321
; PRIOR FILING DATE: 2000-10-05
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
;  LENGTH: 2811
;  TYPE: PRT
;  ORGANISM: Homo sapiens
US-10-877-346-27

  Query Match             63.2%;  Score 36;  DB 9;  Length 2811;
  Best Local Similarity   100.0%;  Pred. No. 4.7e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCY 5
              |||||
Db       2289 RHYCY 2293


RESULT 44
US-10-877-346-25
; Sequence 25, Application US/10877346
; Publication No. US20060014153A1
; GENERAL INFORMATION:
; APPLICANT: Gerlach, Valerie L
; APPLICANT: MacDougall, John R
; APPLICANT: Smithson, Glennda
; APPLICANT: Millet, Isabelle
; APPLICANT: Stone, David
; APPLICANT: Gunther, Erik
; APPLICANT: Ellerman, Karen
; APPLICANT: Grosse, William M
; APPLICANT: Alsobrook II, John P
; APPLICANT: Lepley, Denise M
; APPLICANT: Burgess, Catherine E
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Leach, Martin D
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-124
; CURRENT APPLICATION NUMBER: US/10/877,346
; CURRENT FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US/09/964,956
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/235,631
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,633
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,808
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,064
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,065
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,066
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,135
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/237,434
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/238,321
; PRIOR FILING DATE: 2000-10-05
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 25
;  LENGTH: 2814
;  TYPE: PRT
;  ORGANISM: Homo sapiens
US-10-877-346-25

  Query Match             63.2%;  Score 36;  DB 9;  Length 2814;
  Best Local Similarity   100.0%;  Pred. No. 4.7e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RHYCY 5
              |||||
Db       2292 RHYCY 2296


RESULT 45
US-11-087-099-393
; Sequence 393, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 393
;  LENGTH: 389
;  TYPE: PRT
;  ORGANISM: Arabidopsis thaliana
US-11-087-099-393

  Query Match             61.4%;  Score 35;  DB 11;  Length 389;
  Best Local Similarity   66.7%;  Pred. No. 1.5e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RHYCYSLYG 9
              || | ||:|
Db        325 RHVCGSLFG 333


RESULT 46
US-10-506-443A-75
; Sequence 75, Application US/10506443A
; Publication No. US20060013817A1
; GENERAL INFORMATION:
; APPLICANT: Sahin Dr., Ugur
; APPLICANT: Tureci Dr., Ozlem
; APPLICANT: Koslowski Dr., Michael
; TITLE OF INVENTION: Genetic Products Differentially Expressed in Tumors and Use Theree
; FILE REFERENCE: 342-3PCT
; CURRENT APPLICATION NUMBER: US/10/506,443A
```

; CURRENT FILING DATE: 2004-09-01
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 75
; LENGTH: 735
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-506-443A-75

Query Match 61.4%; Score 35; DB 9; Length 735;
Best Local Similarity 62.5%; Pred. No. 2.4e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 RHYCYSLY 8
:| || ||
Db 13 KHLCYCLY 20

RESULT 47
US-10-821-234-1102
; Sequence 1102, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt_SEQ_genes Version 1.0
; SEQ ID NO 1102
; LENGTH: 1452
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1102

Query Match 61.4%; Score 35; DB 9; Length 1452;
Best Local Similarity 62.5%; Pred. No. 4.1e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 2 HYCYSLYG 9
|||| : |
Db 418 HYCYQVGG 425

RESULT 48
US-10-530-061-132
; Sequence 132, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 132
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-132

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Db 4 HYNYSLY 10

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; Sequence 857, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 857
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-857

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Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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; Sequence 6276, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRAC
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 6276
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; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-6276

Query Match 59.6%; Score 34; DB 11; Length 100;
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Db         68 YCYSFY 73
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OM protein - protein search, using sw model

Run on: May 5, 2006, 01:33:35 ; Search time 18.2 Seconds
(without alignments)
40.884 Million cell updates/sec

Title: US-08-170-344-51
Perfect score: 45
Sequence: 1 SLYGTTLEQ 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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| 211 | 28 | 62.2 | 198 | 2 | US-09-997-333-401 | Sequence 401, App |
| 212 | 28 | 62.2 | 198 | 2 | US-09-992-598-401 | Sequence 401, App |
| 213 | 28 | 62.2 | 210 | 2 | US-09-270-767-41943 | Sequence 41943, A |
| 214 | 28 | 62.2 | 210 | 2 | US-09-270-767-57194 | Sequence 57194, A |
| 215 | 28 | 62.2 | 211 | 2 | US-09-248-796A-21610 | Sequence 21610, A |
| 216 | 28 | 62.2 | 216 | 2 | US-09-489-039A-7519 | Sequence 7519, Ap |
| 217 | 28 | 62.2 | 221 | 2 | US-09-252-991A-32018 | Sequence 32018, A |
| 218 | 28 | 62.2 | 233 | 2 | US-09-328-352-4522 | Sequence 4522, Ap |
| 219 | 28 | 62.2 | 239 | 2 | US-09-134-000C-3730 | Sequence 3730, Ap |
| 220 | 28 | 62.2 | 241 | 2 | US-09-543-681A-6469 | Sequence 6469, Ap |
| 221 | 28 | 62.2 | 252 | 2 | US-09-134-001C-3847 | Sequence 3847, Ap |
| 222 | 28 | 62.2 | 258 | 2 | US-09-023-942A-8 | Sequence 8, Appli |
| 223 | 28 | 62.2 | 278 | 2 | US-09-710-279-2208 | Sequence 2208, Ap |
| 224 | 28 | 62.2 | 299 | 1 | US-08-142-473A-10 | Sequence 10, Appl |
| 225 | 28 | 62.2 | 299 | 1 | US-08-469-203A-10 | Sequence 10, Appl |
| 226 | 28 | 62.2 | 299 | 1 | US-08-469-203A-10 | Sequence 10, Appl |
| 227 | 28 | 62.2 | 299 | 1 | US-08-440-845D-24 | Sequence 24, Appl |
| 228 | 28 | 62.2 | 319 | 2 | US-09-248-796A-17153 | Sequence 17153, A |
| 229 | 28 | 62.2 | 338 | 2 | US-09-540-236-3145 | Sequence 3145, Ap |
| 230 | 28 | 62.2 | 346 | 1 | US-08-613-220B-4 | Sequence 4, Appli |
| 231 | 28 | 62.2 | 356 | 1 | US-08-681-151-1 | Sequence 1, Appli |
| 232 | 28 | 62.2 | 364 | 2 | US-09-134-000C-4275 | Sequence 4275, Ap |
| 233 | 28 | 62.2 | 364 | 2 | US-10-166-606-4 | Sequence 4, Appli |
| 234 | 28 | 62.2 | 364 | 2 | US-10-114-083A-4 | Sequence 4, Appli |
| 235 | 28 | 62.2 | 370 | 1 | US-07-662-007B-37 | Sequence 37, Appl |
| 236 | 28 | 62.2 | 370 | 1 | US-07-824-247-37 | Sequence 37, Appl |
| 237 | 28 | 62.2 | 370 | 2 | US-08-470-204A-37 | Sequence 37, Appl |
| 238 | 28 | 62.2 | 382 | 1 | US-07-824-247-42 | Sequence 42, Appl |
| 239 | 28 | 62.2 | 382 | 1 | US-08-142-473A-2 | Sequence 2, Appli |
| 240 | 28 | 62.2 | 382 | 1 | US-08-464-523B-26 | Sequence 26, Appl |
| 241 | 28 | 62.2 | 382 | 1 | US-08-464-523B-30 | Sequence 30, Appl |
| 242 | 28 | 62.2 | 382 | 1 | US-08-469-203A-2 | Sequence 2, Appli |
| 243 | 28 | 62.2 | 382 | 1 | US-08-469-203A-2 | Sequence 2, Appli |
| 244 | 28 | 62.2 | 382 | 1 | US-08-605-106-12 | Sequence 12, Appl |
| 245 | 28 | 62.2 | 382 | 1 | US-08-440-845D-1 | Sequence 1, Appli |
| 246 | 28 | 62.2 | 382 | 1 | US-08-440-845D-2 | Sequence 2, Appli |

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| 248 | 28 | 62.2 | 382 | 2 | US-08-868-458-1 | Sequence 1, Appli |
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| 252 | 28 | 62.2 | 420 | 2 | US-09-543-681A-8165 | Sequence 8165, Ap |
| 253 | 28 | 62.2 | 420 | 2 | US-09-248-796A-20504 | Sequence 20504, A |
| 254 | 28 | 62.2 | 423 | 1 | US-08-383-744-2 | Sequence 2, Appli |
| 255 | 28 | 62.2 | 423 | 1 | US-08-999-336-2 | Sequence 2, Appli |
| 256 | 28 | 62.2 | 423 | 4 | PCT-US96-01427-2 | Sequence 2, Appli |
| 257 | 28 | 62.2 | 429 | 2 | US-09-252-991A-16841 | Sequence 16841, A |
| 258 | 28 | 62.2 | 435 | 2 | US-09-107-433-5184 | Sequence 5184, Ap |
| 259 | 28 | 62.2 | 441 | 1 | US-08-191-866D-21 | Sequence 21, Appl |
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| 262 | 28 | 62.2 | 462 | 2 | US-09-328-352-4819 | Sequence 4819, Ap |
| 263 | 28 | 62.2 | 471 | 2 | US-09-583-110-3667 | Sequence 3667, Ap |
| 264 | 28 | 62.2 | 471 | 2 | US-08-378-213-2 | Sequence 2, Appli |
| 265 | 28 | 62.2 | 471 | 2 | US-08-378-213-4 | Sequence 4, Appli |
| 266 | 28 | 62.2 | 471 | 2 | US-08-378-213-5 | Sequence 5, Appli |
| 267 | 28 | 62.2 | 471 | 2 | US-08-378-213-6 | Sequence 6, Appli |
| 268 | 28 | 62.2 | 471 | 2 | US-09-120-044-3 | Sequence 3, Appli |
| 269 | 28 | 62.2 | 471 | 2 | US-09-120-044-4 | Sequence 4, Appli |
| 270 | 28 | 62.2 | 472 | 2 | US-09-107-433-3566 | Sequence 3566, Ap |
| 271 | 28 | 62.2 | 482 | 2 | US-09-710-279-1314 | Sequence 1314, Ap |
| 272 | 28 | 62.2 | 483 | 1 | US-08-583-562B-12 | Sequence 12, Appl |
| 273 | 28 | 62.2 | 483 | 1 | US-08-779-113-12 | Sequence 12, Appl |
| 274 | 28 | 62.2 | 485 | 2 | US-09-134-001C-3826 | Sequence 3826, Ap |
| 275 | 28 | 62.2 | 503 | 2 | US-09-252-991A-18122 | Sequence 18122, A |
| 276 | 28 | 62.2 | 505 | 2 | US-09-270-767-43185 | Sequence 43185, A |
| 277 | 28 | 62.2 | 529 | 2 | US-09-537-642-1 | Sequence 1, Appli |
| 278 | 28 | 62.2 | 548 | 2 | US-09-134-001C-4001 | Sequence 4001, Ap |
| 279 | 28 | 62.2 | 579 | 2 | US-09-470-667-8 | Sequence 8, Appli |
| 280 | 28 | 62.2 | 592 | 2 | US-10-104-047-3371 | Sequence 3371, Ap |
| 281 | 28 | 62.2 | 600 | 2 | US-09-902-540-14821 | Sequence 14821, A |
| 282 | 28 | 62.2 | 612 | 2 | US-09-583-110-2911 | Sequence 2911, Ap |
| 283 | 28 | 62.2 | 626 | 2 | US-09-485-717-2 | Sequence 2, Appli |
| 284 | 28 | 62.2 | 626 | 2 | US-09-948-722-2 | Sequence 2, Appli |
| 285 | 28 | 62.2 | 627 | 2 | US-09-403-667A-2 | Sequence 2, Appli |
| 286 | 28 | 62.2 | 627 | 2 | US-09-403-667A-4 | Sequence 4, Appli |
| 287 | 28 | 62.2 | 632 | 2 | US-09-252-991A-20605 | Sequence 20605, A |
| 288 | 28 | 62.2 | 676 | 2 | US-08-947-965-71 | Sequence 71, Appl |
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| 290 | 28 | 62.2 | 683 | 1 | US-07-878-960-2 | Sequence 2, Appli |
| 291 | 28 | 62.2 | 683 | 1 | US-08-477-396A-17 | Sequence 17, Appl |
| 292 | 28 | 62.2 | 683 | 2 | US-09-401-064-122 | Sequence 122, App |
| 293 | 28 | 62.2 | 683 | 2 | US-09-949-016-5931 | Sequence 5931, Ap |
| 294 | 28 | 62.2 | 687 | 1 | US-08-204-656B-10 | Sequence 10, Appl |
| 295 | 28 | 62.2 | 687 | 1 | US-08-470-702-10 | Sequence 10, Appl |
| 296 | 28 | 62.2 | 687 | 1 | US-08-467-831-10 | Sequence 10, Appl |
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| 298 | 28 | 62.2 | 687 | 2 | US-09-538-092-539 | Sequence 539, App |
| 299 | 28 | 62.2 | 692 | 2 | US-09-252-991A-27997 | Sequence 27997, A |
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| 301 | 28 | 62.2 | 713 | 2 | US-09-489-039A-9317 | Sequence 9317, Ap |
| 302 | 28 | 62.2 | 798 | 2 | US-09-949-016-9926 | Sequence 9926, Ap |
| 303 | 28 | 62.2 | 838 | 2 | US-09-235-451-2 | Sequence 2, Appli |
| 304 | 28 | 62.2 | 838 | 2 | US-09-132-316-3 | Sequence 3, Appli |
| 305 | 28 | 62.2 | 838 | 2 | US-09-667-422-9 | Sequence 9, Appli |
| 306 | 28 | 62.2 | 838 | 2 | US-09-978-303-2 | Sequence 2, Appli |
| 307 | 28 | 62.2 | 838 | 2 | US-10-246-435-9 | Sequence 9, Appli |
| 308 | 28 | 62.2 | 838 | 2 | US-10-137-316-3 | Sequence 3, Appli |
| 309 | 28 | 62.2 | 839 | 2 | US-09-197-636-2 | Sequence 2, Appli |
| 310 | 28 | 62.2 | 839 | 2 | US-09-197-636-4 | Sequence 4, Appli |
| 311 | 28 | 62.2 | 839 | 2 | US-09-197-636-8 | Sequence 8, Appli |
| 312 | 28 | 62.2 | 839 | 2 | US-09-235-451-34 | Sequence 34, Appl |
| 313 | 28 | 62.2 | 839 | 2 | US-09-533-220A-2 | Sequence 2, Appli |
| 314 | 28 | 62.2 | 839 | 2 | US-09-667-422-4 | Sequence 4, Appli |
| 315 | 28 | 62.2 | 839 | 2 | US-09-978-303-34 | Sequence 34, Appl |
| 316 | 28 | 62.2 | 839 | 2 | US-09-949-016-6937 | Sequence 6937, Ap |
| 317 | 28 | 62.2 | 839 | 2 | US-10-246-435-4 | Sequence 4, Appli |
| 318 | 28 | 62.2 | 839 | 2 | US-10-128-853-2 | Sequence 2, Appli |
| 319 | 28 | 62.2 | 845 | 2 | US-09-543-681A-4365 | Sequence 4365, Ap |
| 320 | 28 | 62.2 | 857 | 1 | US-08-779-113-2 | Sequence 2, Appli |
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| 323 | 28 | 62.2 | 1083 | 2 | US-09-902-540-16409 | Sequence 16409, A |
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| 325 | 28 | 62.2 | 1208 | 2 | US-09-134-000C-5756 | Sequence 5756, Ap |
| 326 | 28 | 62.2 | 1211 | 2 | US-09-134-001C-4820 | Sequence 4820, Ap |
| 327 | 28 | 62.2 | 1404 | 2 | US-09-345-473E-24 | Sequence 24, Appl |
| 328 | 28 | 62.2 | 1404 | 2 | US-09-862-027-24 | Sequence 24, Appl |
| 329 | 28 | 62.2 | 1612 | 2 | US-08-545-860D-48 | Sequence 48, Appl |
| 330 | 28 | 62.2 | 1612 | 4 | PCT-US94-04496-48 | Sequence 48, Appl |
| 331 | 28 | 62.2 | 1939 | 2 | US-10-152-886-43 | Sequence 43, Appl |
| 332 | 28 | 62.2 | 2353 | 2 | US-08-984-709A-50 | Sequence 50, Appl |
| 333 | 27.5 | 61.1 | 398 | 2 | US-09-543-681A-5007 | Sequence 5007, Ap |
| 334 | 27.5 | 61.1 | 461 | 2 | US-09-328-352-5107 | Sequence 5107, Ap |
| 335 | 27 | 60.0 | 43 | 2 | US-10-318-675-103 | Sequence 103, App |
| 336 | 27 | 60.0 | 60 | 2 | US-09-270-767-57208 | Sequence 57208, A |
| 337 | 27 | 60.0 | 62 | 2 | US-09-107-532A-3788 | Sequence 3788, Ap |
| 338 | 27 | 60.0 | 67 | 2 | US-09-107-532A-7194 | Sequence 7194, Ap |
| 339 | 27 | 60.0 | 101 | 2 | US-09-134-001C-3863 | Sequence 3863, Ap |
| 340 | 27 | 60.0 | 101 | 2 | US-09-902-540-15306 | Sequence 15306, A |
| 341 | 27 | 60.0 | 111 | 2 | US-09-252-991A-26279 | Sequence 26279, A |
| 342 | 27 | 60.0 | 112 | 2 | US-09-270-767-38328 | Sequence 38328, A |
| 343 | 27 | 60.0 | 112 | 2 | US-09-270-767-53545 | Sequence 53545, A |
| 344 | 27 | 60.0 | 113 | 2 | US-09-106-568E-157 | Sequence 157, App |
| 345 | 27 | 60.0 | 123 | 2 | US-09-252-991A-28722 | Sequence 28722, A |
| 346 | 27 | 60.0 | 125 | 2 | US-09-252-991A-26884 | Sequence 26884, A |
| 347 | 27 | 60.0 | 125 | 2 | US-09-583-110-3173 | Sequence 3173, Ap |
| 348 | 27 | 60.0 | 125 | 2 | US-09-583-110-4169 | Sequence 4169, Ap |
| 349 | 27 | 60.0 | 125 | 2 | US-09-583-110-4815 | Sequence 4815, Ap |
| 350 | 27 | 60.0 | 129 | 2 | US-09-107-433-2626 | Sequence 2626, Ap |
| 351 | 27 | 60.0 | 129 | 2 | US-09-107-433-2628 | Sequence 2628, Ap |
| 352 | 27 | 60.0 | 137 | 2 | US-10-104-047-3241 | Sequence 3241, Ap |
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| 354 | 27 | 60.0 | 143 | 2 | US-08-685-808-2 | Sequence 2, Appli |
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| 361 | 27 | 60.0 | 161 | 2 | US-09-270-767-49484 | Sequence 49484, A |
| 362 | 27 | 60.0 | 166 | 2 | US-09-252-991A-19472 | Sequence 19472, A |
| 363 | 27 | 60.0 | 173 | 2 | US-09-270-767-57280 | Sequence 57280, A |
| 364 | 27 | 60.0 | 181 | 2 | US-09-538-092-387 | Sequence 387, App |
| 365 | 27 | 60.0 | 191 | 2 | US-09-107-532A-5508 | Sequence 5508, Ap |
| 366 | 27 | 60.0 | 193 | 2 | US-09-107-532A-5253 | Sequence 5253, Ap |
| 367 | 27 | 60.0 | 193 | 2 | US-09-489-039A-14200 | Sequence 14200, A |
| 368 | 27 | 60.0 | 195 | 2 | US-09-134-001C-4703 | Sequence 4703, Ap |
| 369 | 27 | 60.0 | 198 | 1 | US-08-432-871C-51 | Sequence 51, Appl |
| 370 | 27 | 60.0 | 198 | 2 | US-09-270-956-51 | Sequence 51, Appl |
| 371 | 27 | 60.0 | 211 | 2 | US-09-270-767-60547 | Sequence 60547, A |
| 372 | 27 | 60.0 | 216 | 2 | US-10-121-757B-4 | Sequence 4, Appli |
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| 375 | 27 | 60.0 | 238 | 2 | US-08-981-799A-112 | Sequence 112, App |
| 376 | 27 | 60.0 | 242 | 2 | US-09-004-730A-119 | Sequence 119, App |
| 377 | 27 | 60.0 | 242 | 2 | US-09-252-991A-25489 | Sequence 25489, A |
| 378 | 27 | 60.0 | 242 | 2 | US-08-981-799A-119 | Sequence 119, App |
| 379 | 27 | 60.0 | 247 | 2 | US-09-216-295-8 | Sequence 8, Appli |
| 380 | 27 | 60.0 | 247 | 2 | US-09-489-039A-13818 | Sequence 13818, A |
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| 383 | 27 | 60.0 | 247 | 2 | US-09-605-703B-702 | Sequence 702, App |
| 384 | 27 | 60.0 | 247 | 2 | US-09-605-703B-704 | Sequence 704, App |
| 385 | 27 | 60.0 | 255 | 2 | US-09-134-001C-3304 | Sequence 3304, Ap |
| 386 | 27 | 60.0 | 255 | 2 | US-09-107-532A-5223 | Sequence 5223, Ap |
| 387 | 27 | 60.0 | 255 | 2 | US-09-902-540-11346 | Sequence 11346, A |
| 388 | 27 | 60.0 | 262 | 2 | US-09-270-767-36890 | Sequence 36890, A |
| 389 | 27 | 60.0 | 262 | 2 | US-09-270-767-52107 | Sequence 52107, A |
| 390 | 27 | 60.0 | 262 | 2 | US-10-104-047-3639 | Sequence 3639, Ap |
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| 395 | 27 | 60.0 | 266 | 2 | US-09-990-444-23 | Sequence 23, Appl |
| 396 | 27 | 60.0 | 266 | 2 | US-09-997-333-23 | Sequence 23, Appl |
| 397 | 27 | 60.0 | 266 | 2 | US-09-992-598-23 | Sequence 23, Appl |
| 398 | 27 | 60.0 | 267 | 2 | US-09-663-600A-190 | Sequence 190, App |
| 399 | 27 | 60.0 | 272 | 2 | US-09-270-767-45054 | Sequence 45054, A |
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| 407 | 27 | 60.0 | 299 | 2 | US-09-990-444-213 | Sequence 213, App |
| 408 | 27 | 60.0 | 299 | 2 | US-09-997-333-213 | Sequence 213, App |
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| 449 | 27 | 60.0 | 374 | 2 | US-09-442-349A-12 | Sequence 12, Appl |
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| 452 | 27 | 60.0 | 374 | 2 | US-09-442-349A-15 | Sequence 15, Appl |
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| 722 | 26 | 57.8 | 245 | 2 | US-09-106-582-65 | Sequence 65, Appl |
| 723 | 26 | 57.8 | 245 | 2 | US-09-159-469-65 | Sequence 65, Appl |
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| 725 | 26 | 57.8 | 247 | 2 | US-09-902-540-12649 | Sequence 12649, A |
| 726 | 26 | 57.8 | 249 | 2 | US-09-586-106D-73 | Sequence 73, Appl |
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| 728 | 26 | 57.8 | 252 | 2 | US-09-586-106D-71 | Sequence 71, Appl |
| 729 | 26 | 57.8 | 252 | 2 | US-10-799-870-71 | Sequence 71, Appl |
| 730 | 26 | 57.8 | 254 | 2 | US-09-586-106D-51 | Sequence 51, Appl |
| 731 | 26 | 57.8 | 254 | 2 | US-09-586-106D-67 | Sequence 67, Appl |
| 732 | 26 | 57.8 | 254 | 2 | US-09-586-106D-69 | Sequence 69, Appl |
| 733 | 26 | 57.8 | 254 | 2 | US-09-586-106D-75 | Sequence 75, Appl |
| 734 | 26 | 57.8 | 254 | 2 | US-09-586-106D-77 | Sequence 77, Appl |
| 735 | 26 | 57.8 | 254 | 2 | US-09-586-106D-111 | Sequence 111, App |
| 736 | 26 | 57.8 | 254 | 2 | US-09-830-230A-715 | Sequence 715, App |
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| 738 | 26 | 57.8 | 254 | 2 | US-10-799-870-67 | Sequence 67, Appl |
| 739 | 26 | 57.8 | 254 | 2 | US-10-799-870-69 | Sequence 69, Appl |
| 740 | 26 | 57.8 | 254 | 2 | US-10-799-870-75 | Sequence 75, Appl |
| 741 | 26 | 57.8 | 254 | 2 | US-10-799-870-77 | Sequence 77, Appl |
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| 744 | 26 | 57.8 | 260 | 2 | US-09-543-681A-5505 | Sequence 5505, Ap |
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| 748 | 26 | 57.8 | 273 | 1 | US-08-737-825-5 | Sequence 5, Appli |
| 749 | 26 | 57.8 | 275 | 2 | US-09-252-991A-18272 | Sequence 18272, A |
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| 752 | 26 | 57.8 | 290 | 2 | US-09-633-145-4 | Sequence 4, Appli |
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| 754 | 26 | 57.8 | 294 | 2 | US-09-489-039A-10933 | Sequence 10933, A |
| 755 | 26 | 57.8 | 294 | 2 | US-09-602-787A-464 | Sequence 464, App |
| 756 | 26 | 57.8 | 300 | 2 | US-09-489-039A-12934 | Sequence 12934, A |
| 757 | 26 | 57.8 | 313 | 2 | US-09-107-532A-6954 | Sequence 6954, Ap |
| 758 | 26 | 57.8 | 314 | 2 | US-09-107-532A-7216 | Sequence 7216, Ap |
| 759 | 26 | 57.8 | 316 | 2 | US-09-902-540-12304 | Sequence 12304, A |
| 760 | 26 | 57.8 | 320 | 2 | US-09-489-039A-13881 | Sequence 13881, A |
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| 762 | 26 | 57.8 | 320 | 2 | US-09-949-016-9112 | Sequence 9112, Ap |
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| 765 | 26 | 57.8 | 322 | 2 | US-09-224-997-6 | Sequence 6, Appli |
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| 767 | 26 | 57.8 | 334 | 2 | US-09-120-365-64 | Sequence 64, Appl |
| 768 | 26 | 57.8 | 334 | 2 | US-09-515-039-64 | Sequence 64, Appl |
| 769 | 26 | 57.8 | 334 | 2 | US-09-784-642-4 | Sequence 4, Appli |
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| 776 | 26 | 57.8 | 335 | 1 | US-08-474-169-6 | Sequence 6, Appli |
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| 778 | 26 | 57.8 | 335 | 1 | US-08-486-814-2 | Sequence 2, Appli |
| 779 | 26 | 57.8 | 335 | 1 | US-08-487-472-2 | Sequence 2, Appli |
| 780 | 26 | 57.8 | 335 | 1 | US-08-897-719-2 | Sequence 2, Appli |
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| 783 | 26 | 57.8 | 335 | 2 | US-09-161-902-2 | Sequence 2, Appli |
| 784 | 26 | 57.8 | 335 | 2 | US-09-163-269-2 | Sequence 2, Appli |
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| 787 | 26 | 57.8 | 335 | 2 | US-09-777-317B-2 | Sequence 2, Appli |
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| 793 | 26 | 57.8 | 343 | 1 | US-08-463-090B-11 | Sequence 11, Appl |
| 794 | 26 | 57.8 | 346 | 2 | US-09-266-965-107 | Sequence 107, App |
| 795 | 26 | 57.8 | 347 | 1 | US-08-379-556A-2 | Sequence 2, Appli |
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| 798 | 26 | 57.8 | 350 | 1 | US-08-407-804-23 | Sequence 23, Appl |
| 799 | 26 | 57.8 | 350 | 2 | US-09-124-807-23 | Sequence 23, Appl |
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| 802 | 26 | 57.8 | 354 | 1 | US-08-407-804-24 | Sequence 24, Appl |
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| 804 | 26 | 57.8 | 355 | 2 | US-09-328-352-6270 | Sequence 6270, Ap |
| 805 | 26 | 57.8 | 357 | 2 | US-09-252-991A-24149 | Sequence 24149, A |
| 806 | 26 | 57.8 | 357 | 2 | US-09-248-796A-20175 | Sequence 20175, A |
| 807 | 26 | 57.8 | 358 | 1 | US-08-558-823-19 | Sequence 19, Appl |
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| 811 | 26 | 57.8 | 362 | 2 | US-09-120-365-74 | Sequence 74, Appl |
| 812 | 26 | 57.8 | 362 | 2 | US-09-515-039-74 | Sequence 74, Appl |
| 813 | 26 | 57.8 | 368 | 2 | US-09-949-002-432 | Sequence 432, App |
| 814 | 26 | 57.8 | 371 | 2 | US-09-248-796A-16428 | Sequence 16428, A |
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| 816 | 26 | 57.8 | 373 | 2 | US-09-107-532A-7048 | Sequence 7048, Ap |
| 817 | 26 | 57.8 | 375 | 2 | US-09-976-594-795 | Sequence 795, App |
| 818 | 26 | 57.8 | 375 | 2 | US-09-538-092-1244 | Sequence 1244, Ap |
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| 822 | 26 | 57.8 | 385 | 1 | US-08-450-257-58 | Sequence 58, Appl |
| 823 | 26 | 57.8 | 385 | 1 | US-08-450-246-58 | Sequence 58, Appl |
| 824 | 26 | 57.8 | 385 | 1 | US-08-450-098-58 | Sequence 58, Appl |
| 825 | 26 | 57.8 | 385 | 1 | US-08-451-233-58 | Sequence 58, Appl |
| 826 | 26 | 57.8 | 385 | 1 | US-08-450-236-58 | Sequence 58, Appl |
| 827 | 26 | 57.8 | 385 | 2 | US-08-235-403-58 | Sequence 58, Appl |
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| 829 | 26 | 57.8 | 391 | 2 | US-09-710-279-2180 | Sequence 2180, Ap |
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| 833 | 26 | 57.8 | 403 | 2 | US-09-438-185A-106 | Sequence 106, App |
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| 848 | 26 | 57.8 | 413 | 2 | US-09-949-016-10737 | Sequence 10737, A |
| 849 | 26 | 57.8 | 414 | 2 | US-09-605-703B-1166 | Sequence 1166, Ap |
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| 854 | 26 | 57.8 | 419 | 2 | US-09-395-936-2 | Sequence 2, Appli |
| 855 | 26 | 57.8 | 419 | 2 | US-09-395-936-17 | Sequence 17, Appl |
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| 858 | 26 | 57.8 | 433 | 2 | US-09-721-870-107 | Sequence 107, App |
| 859 | 26 | 57.8 | 435 | 2 | US-09-538-092-24 | Sequence 24, Appl |
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| 874 | 26 | 57.8 | 474 | 2 | US-09-721-362-116 | Sequence 116, App |
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| 881 | 26 | 57.8 | 475 | 2 | US-10-006-041A-79 | Sequence 79, Appl |
| 882 | 26 | 57.8 | 475 | 2 | US-10-012-064A-79 | Sequence 79, Appl |
| 883 | 26 | 57.8 | 479 | 2 | US-09-540-236-3627 | Sequence 3627, Ap |
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| 887 | 26 | 57.8 | 488 | 2 | US-10-109-310-15 | Sequence 15, Appl |
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| 901 | 26 | 57.8 | 513 | 2 | US-09-543-681A-4826 | Sequence 4826, Ap |
| 902 | 26 | 57.8 | 529 | 2 | US-09-252-991A-31878 | Sequence 31878, A |
| 903 | 26 | 57.8 | 539 | 2 | US-09-801-191A-8 | Sequence 8, Appli |
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| 925 | 26 | 57.8 | 576 | 2 | US-10-345-198-4 | Sequence 4, Appli |
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| 934 | 26 | 57.8 | 606 | 1 | US-08-883-534-3 | Sequence 3, Appli |
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| 958 | 26 | 57.8 | 671 | 2 | US-09-303-518D-332 | Sequence 332, App |
| 959 | 26 | 57.8 | 671 | 2 | US-09-303-518D-336 | Sequence 336, App |
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| 962 | 26 | 57.8 | 693 | 2 | US-09-248-796A-18167 | Sequence 18167, A |
| 963 | 26 | 57.8 | 694 | 2 | US-09-252-991A-22637 | Sequence 22637, A |
| 964 | 26 | 57.8 | 706 | 2 | US-09-902-540-15975 | Sequence 15975, A |
| 965 | 26 | 57.8 | 719 | 2 | US-09-641-741-28 | Sequence 28, Appl |
| 966 | 26 | 57.8 | 722 | 2 | US-09-543-681A-5467 | Sequence 5467, Ap |
| 967 | 26 | 57.8 | 724 | 2 | US-09-562-737-21 | Sequence 21, Appl |
| 968 | 26 | 57.8 | 724 | 2 | US-09-562-737-26 | Sequence 26, Appl |
| 969 | 26 | 57.8 | 724 | 2 | US-09-562-737-27 | Sequence 27, Appl |
| 970 | 26 | 57.8 | 729 | 1 | US-08-971-937-2 | Sequence 2, Appli |
| 971 | 26 | 57.8 | 729 | 1 | US-08-812-533-2 | Sequence 2, Appli |
| 972 | 26 | 57.8 | 729 | 2 | US-09-509-800-4 | Sequence 4, Appli |
| 973 | 26 | 57.8 | 729 | 2 | US-09-771-161A-268 | Sequence 268, App |
| 974 | 26 | 57.8 | 744 | 2 | US-09-248-796A-17602 | Sequence 17602, A |
| 975 | 26 | 57.8 | 749 | 2 | US-09-949-016-10745 | Sequence 10745, A |
| 976 | 26 | 57.8 | 753 | 2 | US-10-147-928-6 | Sequence 6, Appli |

| | | | | | | |
|---|---|---|---|---|---|---|
| 977 | 26 | 57.8 | 767 | 2 | US-09-917-254-69 | Sequence 69, Appl |
| 978 | 26 | 57.8 | 767 | 2 | US-09-919-497-59 | Sequence 59, Appl |
| 979 | 26 | 57.8 | 779 | 2 | US-10-147-928-4 | Sequence 4, Appli |
| 980 | 26 | 57.8 | 779 | 2 | US-09-905-846-2 | Sequence 2, Appli |
| 981 | 26 | 57.8 | 779 | 2 | US-10-104-047-3386 | Sequence 3386, Ap |
| 982 | 26 | 57.8 | 785 | 2 | US-09-902-540-10007 | Sequence 10007, A |
| 983 | 26 | 57.8 | 803 | 2 | US-09-583-110-3214 | Sequence 3214, Ap |
| 984 | 26 | 57.8 | 806 | 2 | US-09-107-433-4642 | Sequence 4642, Ap |
| 985 | 26 | 57.8 | 810 | 2 | US-09-538-092-596 | Sequence 596, App |
| 986 | 26 | 57.8 | 810 | 2 | US-09-712-363-281 | Sequence 281, App |
| 987 | 26 | 57.8 | 834 | 2 | US-10-104-047-2323 | Sequence 2323, Ap |
| 988 | 26 | 57.8 | 844 | 2 | US-09-029-267-20 | Sequence 20, Appl |
| 989 | 26 | 57.8 | 847 | 2 | US-09-765-298A-10 | Sequence 10, Appl |
| 990 | 26 | 57.8 | 884 | 2 | US-09-248-796A-20574 | Sequence 20574, A |
| 991 | 26 | 57.8 | 915 | 2 | US-09-214-555B-2 | Sequence 2, Appli |
| 992 | 26 | 57.8 | 954 | 2 | US-09-251-645-12 | Sequence 12, Appl |
| 993 | 26 | 57.8 | 965 | 2 | US-08-851-567B-57 | Sequence 57, Appl |
| 994 | 26 | 57.8 | 997 | 1 | US-08-232-540-1 | Sequence 1, Appli |
| 995 | 26 | 57.8 | 997 | 1 | US-08-428-949A-1 | Sequence 1, Appli |
| 996 | 26 | 57.8 | 997 | 1 | US-08-428-948A-1 | Sequence 1, Appli |
| 997 | 26 | 57.8 | 997 | 1 | US-08-428-946-1 | Sequence 1, Appli |
| 998 | 26 | 57.8 | 997 | 4 | PCT-US95-04656-1 | Sequence 1, Appli |
| 999 | 26 | 57.8 | 998 | 1 | US-08-233-008A-6 | Sequence 6, Appli |
| 1000 | 26 | 57.8 | 1021 | 1 | US-08-233-008A-2 | Sequence 2, Appli |

ALIGNMENTS

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RESULT 1
US-08-159-339A-230
; Sequence 230, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  230:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-230

  Query Match           100.0%;  Score 45;  DB 2;  Length 9;
  Best Local Similarity  100.0%;  Pred. No. 4.6e+05;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db          1 SLYGTTLEQ 9


RESULT 2
US-09-980-523A-8
; Sequence 8, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
;   LENGTH: 29
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-8

  Query Match           100.0%;  Score 45;  DB 2;  Length 29;
  Best Local Similarity  100.0%;  Pred. No. 0.025;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db         10 SLYGTTLEQ 18


RESULT 3
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
;  APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
;  TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 FC
;  TITLE OF INVENTION:  TRANSCRIPTIONAL REGULATION
;  FILE REFERENCE: N73477C GCW
;  CURRENT APPLICATION NUMBER: US/09/701,080C
;  CURRENT FILING DATE:  2001-02-27
;  PRIOR APPLICATION NUMBER: GB 9811303.8
;  PRIOR FILING DATE: 1998-05-26
;  PRIOR APPLICATION NUMBER: GB 9900157.0
;  PRIOR FILING DATE: 1999-01-05
;  NUMBER OF SEQ ID NOS: 36
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
;   LENGTH: 151
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;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-09-701-080C-18

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  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db         82 SLYGTTLEQ 90


RESULT 4
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-2

  Query Match            100.0%;  Score 45;  DB 2;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.17;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db         89 SLYGTTLEQ 97


RESULT 5
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-3

  Query Match            100.0%;  Score 45;  DB 1;  Length 162;
  Best Local Similarity   100.0%;  Pred. No. 0.18;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db         89 SLYGTTLEQ 97


RESULT 6
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

  Query Match            100.0%;  Score 45;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.19;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db         27 SLYGTTLEQ 35


RESULT 7
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
```

```
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-12

  Query Match             100.0%;  Score 45;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.19;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db         27 SLYGTTLEQ 35


RESULT 8
US-08-117-083-10
; Sequence 10, Application US/08117083
; Patent No. 5719054
;  GENERAL INFORMATION:
;    APPLICANT:  Boursnell, Michael E.
;    APPLICANT:  Inglis, Stephen C.
;    APPLICANT:  Munro, Alan J.
;    TITLE OF INVENTION:  Recombinant Virus Vectors Encoding Human
;    TITLE OF INVENTION:  Papilloma Virus Proteins
;    NUMBER OF SEQUENCES:  70
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Walter H. Dreger
;      STREET:  4 Embarcadero Center, Suite 3400
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/117,083
;      FILING DATE:  10-SEP-1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Dreger, Walter H.
;      REGISTRATION NUMBER:  24,190
;      REFERENCE/DOCKET NUMBER:  A-58783
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-781-1989
;      TELEFAX:  415-398-3249
;      TELEX:  910 277299
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  182 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    FEATURE:
;      NAME/KEY:  Protein
;      LOCATION:  1..182
;      OTHER INFORMATION:  /note= "Xaa refers to stop codon in
;      OTHER INFORMATION:  the open reading frame."
US-08-117-083-10

  Query Match             100.0%;  Score 45;  DB 1;  Length 182;
  Best Local Similarity   100.0%;  Pred. No. 0.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db         70 SLYGTTLEQ 78


RESULT 9
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
;  APPLICANT:  KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION:  ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE:  017753-122
;  CURRENT APPLICATION NUMBER: US/09/462,993
;  CURRENT FILING DATE:  2000-04-17
;  PRIOR APPLICATION NUMBER:  PCT/FR98/01576
;  PRIOR FILING DATE:  1998-07-17
;  PRIOR APPLICATION NUMBER:  FR 97/09152
;  PRIOR FILING DATE:  1997-07-18
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

  Query Match             100.0%;  Score 45;  DB 2;  Length 243;
  Best Local Similarity   100.0%;  Pred. No. 0.28;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db        117 SLYGTTLEQ 125


RESULT 10
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
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;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

  Query Match             100.0%;  Score 45;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.31;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db         89 SLYGTTLEQ 97


RESULT 11
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-10

  Query Match             100.0%;  Score 45;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.31;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db         89 SLYGTTLEQ 97


RESULT 12
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 45;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.31;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db         89 SLYGTTLEQ 97


RESULT 13
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-4

  Query Match             100.0%;  Score 45;  DB 2;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 0.32;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db        195 SLYGTTLEQ 203


RESULT 14
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-10

  Query Match             100.0%;  Score 45;  DB 2;  Length 292;
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```
  Best Local Similarity   100.0%;  Pred. No. 0.35;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db        214 SLYGTTLEQ 222


RESULT 15
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-6

  Query Match             100.0%;  Score 45;  DB 2;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 0.46;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db        195 SLYGTTLEQ 203


RESULT 16
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-14

  Query Match             100.0%;  Score 45;  DB 2;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 0.49;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db        214 SLYGTTLEQ 222


RESULT 17
US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-4

  Query Match             93.3%;  Score 42;  DB 1;  Length 162;
  Best Local Similarity   88.9%;  Pred. No. 0.72;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |:|||||||
Db         89 SVYGTTLEQ 97


RESULT 18
US-08-934-915-44
; Sequence 44, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
```

```
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  44:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-44

  Query Match             88.9%;  Score 40;  DB 1;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.17;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLE 8
              ||||||||
Db         13 SLYGTTLE 20


RESULT 19
US-08-934-915-163
; Sequence 163, Application US/08934915
; Patent No. 5932412
; GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  163:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-163

  Query Match             88.9%;  Score 40;  DB 1;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.17;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLE 8
              ||||||||
Db         13 SLYGTTLE 20


RESULT 20
US-09-704-611-2
; Sequence 2, Application US/09704611
; Patent No. 6548284
; GENERAL INFORMATION:
;  APPLICANT:    JCR Pharmaceuticals Co., Ltd.
;  TITLE OF INVENTION:    Membrane-bound Metalloprotease and Soluble Secreted Form Theree
;  FILE REFERENCE:    GP30
;  CURRENT APPLICATION NUMBER: US/09/704,611
;  CURRENT FILING DATE:  2000-11-03
;  NUMBER OF SEQ ID NOS:    9
; SEQ ID NO 2
;   LENGTH: 742
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-09-704-611-2

  Query Match             80.0%;  Score 36;  DB 2;  Length 742;
  Best Local Similarity   66.7%;  Pred. No. 67;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              :|||||:|:
Db        388 ALYGTTVEE 396


RESULT 21
US-09-704-611-1
; Sequence 1, Application US/09704611
; Patent No. 6548284
; GENERAL INFORMATION:
;  APPLICANT:    JCR Pharmaceuticals Co., Ltd.
;  TITLE OF INVENTION:    Membrane-bound Metalloprotease and Soluble Secreted Form Theree
;  FILE REFERENCE:    GP30
;  CURRENT APPLICATION NUMBER: US/09/704,611
;  CURRENT FILING DATE:  2000-11-03
;  NUMBER OF SEQ ID NOS:    9
; SEQ ID NO 1
;   LENGTH: 765
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-09-704-611-1

  Query Match             80.0%;  Score 36;  DB 2;  Length 765;
  Best Local Similarity   66.7%;  Pred. No. 69;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy          1 SLYGTTLEQ 9
              :|||||:|:
Db        411 ALYGTTVEE 419


RESULT 22
US-08-159-339A-244
; Sequence 244, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  244:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-244

  Query Match             77.8%;  Score 35;  DB 2;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 4.6e+05;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTL 7
              |||||||
Db          3 SLYGTTL 9


RESULT 23
US-08-159-339A-563
; Sequence 563, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  563:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-563

  Query Match             77.8%;  Score 35;  DB 2;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 4.6e+05;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTL 7
              |||||||
Db          3 SLYGTTL 9


RESULT 24
US-08-159-339A-1171
; Sequence 1171, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
```

```
;       ZIP:  94111-3834
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Diskette
;       COMPUTER:  IBM Compatible
;       OPERATING SYSTEM:  DOS
;       SOFTWARE:  FastSEQ for Windows Version 2.0
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/159,339A
;       FILING DATE:  29-NOV-1993
;       CLASSIFICATION:  424
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/926,666
;       FILING DATE:  07-AUG-1992
;       APPLICATION NUMBER:  US 08/027,746
;       FILING DATE:  05-MAR-1993
;       APPLICATION NUMBER:  US 08/103,396
;       FILING DATE:  06-AUG-1993
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Weber, Ellen Lauver
;       REGISTRATION NUMBER:  32,762
;       REFERENCE/DOCKET NUMBER:  018623-005030US
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (415) 576-0200
;       TELEFAX:  (415) 576-0300
;       TELEX:
;   INFORMATION FOR SEQ ID NO:  1171:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  11 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
US-08-159-339A-1171

  Query Match             77.8%;  Score 35;  DB 2;  Length 11;
  Best Local Similarity   100.0%;  Pred. No. 0.87;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTL 7
              |||||||
Db          5 SLYGTTL 11


RESULT 25
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

  Query Match             77.8%;  Score 35;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 20;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTL 7
              |||||||
Db        158 SLYGTTL 164


RESULT 26
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-14

  Query Match             77.8%;  Score 35;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 20;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTL 7
              |||||||
Db        158 SLYGTTL 164


RESULT 27
US-09-270-767-46690
; Sequence 46690, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 46690
;   LENGTH: 403
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
;   FEATURE:
;   OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-46690

  Query Match             75.6%;  Score 34;  DB 2;  Length 403;
  Best Local Similarity   85.7%;  Pred. No. 85;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 LYGTTLE 8
              :||||||
Db         27 IYGTTLE 33


RESULT 28
US-09-270-767-43726
```

```
; Sequence 43726, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 43726
;   LENGTH: 190
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-43726

  Query Match             73.3%;  Score 33;  DB 2;  Length 190;
  Best Local Similarity   77.8%;  Pred. No. 57;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              :| ||||||
Db         74 TLCGTTLEQ 82


RESULT 29
US-09-107-532A-7021
; Sequence 7021, Application US/09107532A
; Patent No. 6583275
;   GENERAL INFORMATION:
;        APPLICANT: Lynn A Doucette-Stamm  and David Bush
;        TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;                            ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
;        NUMBER OF SEQUENCES: 7310
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;             STREET: 100 Beaver Street
;             CITY: Waltham
;             STATE: Massachusetts
;             COUNTRY: USA
;             ZIP: 02354
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: CD/ROM ISO9660
;             COMPUTER: PC
;             OPERATING SYSTEM: <Unknown>
;             SOFTWARE: ASCII
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/107,532A
;             FILING DATE: 30-Jun-1998
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 60/085,598
;             FILING DATE: 14 May 1998
;             APPLICATION NUMBER: 60/051571
;             FILING DATE: July 2, 1997
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Ariniello, Pamela Deneke
;             REGISTRATION NUMBER: 40,489
;             REFERENCE/DOCKET NUMBER: GTC-012
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (781)893-5007
;             TELEFAX: (781)893-8277
;   INFORMATION FOR SEQ ID NO: 7021:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 345 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        HYPOTHETICAL: YES
;        ORIGINAL SOURCE:
;             ORGANISM: Enterococcus faecium
;        FEATURE:
;             NAME/KEY:  misc_feature
;             LOCATION: (B) LOCATION 1...345
;        SEQUENCE DESCRIPTION: SEQ ID NO: 7021:
US-09-107-532A-7021

  Query Match             73.3%;  Score 33;  DB 2;  Length 345;
  Best Local Similarity   77.8%;  Pred. No. 1.1e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              ||||| | |
Db        122 SLYGTPLPQ 130


RESULT 30
US-09-500-063-2
; Sequence 2, Application US/09500063
; Patent No. 6353092
; GENERAL INFORMATION:
;  APPLICANT: David P. Kelsell
;  APPLICANT: Michael R. Barnes
;  APPLICANT: Tania Tamson Testa
;  TITLE OF INVENTION: NOVEL COMPOUNDS
;  FILE REFERENCE: GH-30311-D1
;  CURRENT APPLICATION NUMBER: US/09/500,063
;  CURRENT FILING DATE: 2000-02-08
;  NUMBER OF SEQ ID NOS: 4
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 2
;   LENGTH: 529
;   TYPE: PRT
;   ORGANISM: HOMO SAPIENS
US-09-500-063-2

  Query Match             73.3%;  Score 33;  DB 2;  Length 529;
  Best Local Similarity   77.8%;  Pred. No. 1.8e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||| || |
Db        210 SLYGATLVQ 218


RESULT 31
US-09-949-016-9601
; Sequence 9601, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9601
;   LENGTH: 613
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-9601

  Query Match             73.3%;  Score 33;  DB 2;  Length 613;
  Best Local Similarity   75.0%;  Pred. No. 2.2e+02;
  Matches    6;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLE 8
              :||||:||
Db        488 NLYGTSLE 495
```

```
RESULT 32
US-09-902-540-14059
; Sequence 14059, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
;  APPLICANT: Goldman, Barry S.
;  APPLICANT:  Hinkle, Gregory J.
;  APPLICANT:  Slater, Steven C.
;  APPLICANT:  Wiegand, Roger C.
;  TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
;  FILE REFERENCE: 38-10(15849)B
;  CURRENT APPLICATION NUMBER: US/09/902,540
;  CURRENT FILING DATE:  2001-07-10
;  PRIOR APPLICATION NUMBER: 60/217,883
;  PRIOR FILING DATE: 2000-07-10
;  NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 14059
;   LENGTH: 619
;   TYPE: PRT
;   ORGANISM: Myxococcus xanthus
US-09-902-540-14059

  Query Match             73.3%;  Score 33;  DB 2;  Length 619;
  Best Local Similarity   75.0%;  Pred. No. 2.2e+02;
  Matches    6;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLE 8
              :|:|||||
Db        483 TLFGTTLE 490


RESULT 33
US-09-807-007-1
; Sequence 1, Application US/09807007
; Patent No. 6881833
; GENERAL INFORMATION:
;  APPLICANT: ZAPHIROPOULOS, Peter et al.
;  TITLE OF INVENTION: A NOVEL COMPONENT IN THE HEDGEHOG SIGNALLING PATHWAY
;  FILE REFERENCE: 2921-0130P
;  CURRENT APPLICATION NUMBER: US/09/807,007
;  CURRENT FILING DATE:  2001-04-06
;  NUMBER OF SEQ ID NOS: 16
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 1146
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-807-007-1

  Query Match             73.3%;  Score 33;  DB 2;  Length 1146;
  Best Local Similarity   77.8%;  Pred. No. 4.4e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||| || |
Db        700 SLYGATLVQ 708


RESULT 34
US-09-293-505-7
; Sequence 7, Application US/09293505
; Patent No. 6348575
; GENERAL INFORMATION:
;  APPLICANT: de Sauvage, Frederic
;  APPLICANT: Carpenter, David A.
;  TITLE OF INVENTION: Patched-2
;  FILE REFERENCE: P1405R1
;  CURRENT APPLICATION NUMBER: US/09/293,505
;  CURRENT FILING DATE: 1999-04-15
;  EARLIER APPLICATION NUMBER: US 60/081,884
;  EARLIER FILING DATE: 1998-04-15
;  NUMBER OF SEQ ID NOS: 32
; SEQ ID NO 7
;   LENGTH: 1182
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-09-293-505-7

  Query Match             73.3%;  Score 33;  DB 2;  Length 1182;
  Best Local Similarity   77.8%;  Pred. No. 4.6e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||| || |
Db        700 SLYGATLVQ 708


RESULT 35
US-09-060-939A-7
; Sequence 7, Application US/09060939A
; Patent No. 6709838
;  GENERAL INFORMATION:
;    APPLICANT:  Frederic de Sauvage, David A. Carpenter
;    TITLE OF INVENTION:  Patched-2
;    NUMBER OF SEQUENCES:  32
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Genentech, Inc.
;      STREET:  1 DNA Way
;      CITY:  South San Francisco
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94080
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  3.5 inch, 1.44 Mb floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  WinPatin (Genentech)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/060,939A
;      FILING DATE:  15-Apr-1998
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Svoboda, Craig G.
;      REGISTRATION NUMBER:  39,044
;      REFERENCE/DOCKET NUMBER:  P1405
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  650/225-1489
;      TELEFAX:  650/952-9881
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1182 amino acids
;      TYPE:  Amino Acid
;      TOPOLOGY:  Linear
US-09-060-939A-7

  Query Match             73.3%;  Score 33;  DB 2;  Length 1182;
  Best Local Similarity   77.8%;  Pred. No. 4.6e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||| || |
Db        700 SLYGATLVQ 708


RESULT 36
US-09-207-857-2
; Sequence 2, Application US/09207857
; Patent No. 6309879
; GENERAL INFORMATION:
;  APPLICANT: Bumcroft, David A.
;  TITLE OF INVENTION: HUMAN PATCHED GENES AND PROTEINS, AND USES RELATED
;  TITLE OF INVENTION: THERETO
;  FILE REFERENCE: ONV-05001
;  CURRENT APPLICATION NUMBER: US/09/207,857
```

```
;  CURRENT FILING DATE: 1998-12-08
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;    LENGTH: 1203
;    TYPE: PRT
;    ORGANISM: human
US-09-207-857-2

  Query Match             73.3%;  Score 33;  DB 2;  Length 1203;
  Best Local Similarity   77.8%;  Pred. No. 4.7e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||| || |
Db        700 SLYGATLVQ 708


RESULT 37
US-09-293-505-2
; Sequence 2, Application US/09293505
; Patent No. 6348575
; GENERAL INFORMATION:
;  APPLICANT: de Sauvage, Frederic
;  APPLICANT: Carpenter, David A.
;  TITLE OF INVENTION: Patched-2
;  FILE REFERENCE: P1405R1
;  CURRENT APPLICATION NUMBER: US/09/293,505
;  CURRENT FILING DATE: 1999-04-15
;  EARLIER APPLICATION NUMBER: US 60/081,884
;  EARLIER FILING DATE: 1998-04-15
;  NUMBER OF SEQ ID NOS: 32
; SEQ ID NO 2
;    LENGTH: 1203
;    TYPE: PRT
;    ORGANISM: Homo sapiens
US-09-293-505-2

  Query Match             73.3%;  Score 33;  DB 2;  Length 1203;
  Best Local Similarity   77.8%;  Pred. No. 4.7e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||| || |
Db        700 SLYGATLVQ 708


RESULT 38
US-09-909-280A-2
; Sequence 2, Application US/09909280A
; Patent No. 6605700
; GENERAL INFORMATION:
;  APPLICANT: Bumcroft, David A.
;  TITLE OF INVENTION: HUMAN PATCHED GENES AND PROTEINS, AND USES RELATED
;  TITLE OF INVENTION:  THERETO
;  FILE REFERENCE: CIBT-P02-050
;  CURRENT APPLICATION NUMBER: US/09/909,280A
;  CURRENT FILING DATE:  2001-07-19
;  PRIOR APPLICATION NUMBER: US 09/207,857
;  PRIOR FILING DATE: 1998-12-08
;  PRIOR APPLICATION NUMBER: US 60/067,940
;  PRIOR FILING DATE: 1997-12-08
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;    LENGTH: 1203
;    TYPE: PRT
;    ORGANISM: Homo sapiens
US-09-909-280A-2

  Query Match             73.3%;  Score 33;  DB 2;  Length 1203;
  Best Local Similarity   77.8%;  Pred. No. 4.7e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||| || |
Db        700 SLYGATLVQ 708


RESULT 39
US-09-060-939A-2
; Sequence 2, Application US/09060939A
; Patent No. 6709838
; GENERAL INFORMATION:
;    APPLICANT:  Frederic de Sauvage, David A. Carpenter
;    TITLE OF INVENTION:  Patched-2
;    NUMBER OF SEQUENCES:  32
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Genentech, Inc.
;      STREET:  1 DNA Way
;      CITY:  South San Francisco
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94080
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  3.5 inch, 1.44 Mb floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  WinPatin (Genentech)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/060,939A
;      FILING DATE:  15-Apr-1998
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Svoboda, Craig G.
;      REGISTRATION NUMBER:  39,044
;      REFERENCE/DOCKET NUMBER:  P1405
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  650/225-1489
;      TELEFAX:  650/952-9881
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1203 amino acids
;      TYPE:  Amino Acid
;      TOPOLOGY:  Linear
US-09-060-939A-2

  Query Match             73.3%;  Score 33;  DB 2;  Length 1203;
  Best Local Similarity   77.8%;  Pred. No. 4.7e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||| || |
Db        700 SLYGATLVQ 708


RESULT 40
US-08-159-339A-89
; Sequence 89, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
```

```
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  89:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-89

  Query Match             71.1%;  Score 32;  DB 2;  Length 9;
  Best Local Similarity   66.7%;  Pred. No. 4.6e+05;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |:|| |||:
Db          1 SVYGDTLEK 9


RESULT 41
US-08-466-285-4
; Sequence 4, Application US/08466285
; Patent No. 5753233
;  GENERAL INFORMATION:
;    APPLICANT:  Bleul, Conrad
;    APPLICANT:  Gissmann, Lutz
;    APPLICANT:  Muller, Martin
;    TITLE OF INVENTION:  Seroreactive Epitopes On Proteins Of
;    TITLE OF INVENTION:  Human Papillomavirus (HPV)18
;    NUMBER OF SEQUENCES:  7
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Finnegan, Henderson, Farabow, Garrett &
;      ADDRESSEE:  Dunner
;      STREET:  1300 I Street, N.W., Suite 700
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20005-3315
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/466,285
;      FILING DATE:  06-JUN-1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/164,768
;      FILING DATE:  10-DEC-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/947,992
;      FILING DATE:  21-SEP-1992
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/696,953
;      FILING DATE:  08-MAY-1991
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  P 40 15 044.5
;      FILING DATE:  10-MAY-1990
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Manspeizer, David A.
;      REGISTRATION NUMBER:  37,540
;      REFERENCE/DOCKET NUMBER:  05552.1075-03000
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202)408-4000
;      TELEFAX:  (202)408-4400
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  32 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-466-285-4

  Query Match             71.1%;  Score 32;  DB 1;  Length 32;
  Best Local Similarity   66.7%;  Pred. No. 12;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |:|| |||:
Db         22 SVYGDTLEK 30


RESULT 42
US-08-164-768-4
; Sequence 4, Application US/08164768
; Patent No. 6322794
;  GENERAL INFORMATION:
;    APPLICANT:  BLEUL, Conrad
;    APPLICANT:  GISSMANN, Lutz
;    APPLICANT:  MULLER, Martin
;    TITLE OF INVENTION:  SEROREACTIVE EPITOPES ON PROTEINS OF
;    TITLE OF INVENTION:  HUMAN PAPILLOMA VIRUS (HPV) 18
;    NUMBER OF SEQUENCES:  7
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  FINNEGAN, HENDERSON, FARABOW, GARRETT &
;      ADDRESSEE:  DUNNER, L.L.P.
;      STREET:  1300 I Street, N.W.
;      CITY:  Washington
;      STATE:  DC
;      COUNTRY:  USA
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/164,768
;      FILING DATE:  10-DEC-1993
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Forman, David S.
;      REGISTRATION NUMBER:  33,694
;      REFERENCE/DOCKET NUMBER:  05552.1075-02000
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 408-4000
;      TELEFAX:  (202) 408-4400
;  INFORMATION FOR SEQ ID NO:  4:
```

```
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  32 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-164-768-4

  Query Match             71.1%;  Score 32;  DB 2;  Length 32;
  Best Local Similarity   66.7%;  Pred. No. 12;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |:|| |||:
Db         22 SVYGDTLEK 30


RESULT 43
US-09-270-767-36202
; Sequence 36202, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 36202
;    LENGTH: 94
;    TYPE: PRT
;    ORGANISM: Drosophila melanogaster
US-09-270-767-36202

  Query Match             71.1%;  Score 32;  DB 2;  Length 94;
  Best Local Similarity   66.7%;  Pred. No. 41;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||| | |:
Db         69 SLYGVTAEE 77


RESULT 44
US-09-270-767-51419
; Sequence 51419, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 51419
;    LENGTH: 94
;    TYPE: PRT
;    ORGANISM: Drosophila melanogaster
US-09-270-767-51419

  Query Match             71.1%;  Score 32;  DB 2;  Length 94;
  Best Local Similarity   66.7%;  Pred. No. 41;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||| | |:
Db         69 SLYGVTAEE 77


RESULT 45
US-09-902-540-12613
; Sequence 12613, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
;  APPLICANT: Goldman, Barry S.
;  APPLICANT:  Hinkle, Gregory J.
;  APPLICANT:  Slater, Steven C.
;  APPLICANT:  Wiegand, Roger C.
;  TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
;  FILE REFERENCE: 38-10(15849)B
;  CURRENT APPLICATION NUMBER: US/09/902,540
;  CURRENT FILING DATE:  2001-07-10
;  PRIOR APPLICATION NUMBER: 60/217,883
;  PRIOR FILING DATE: 2000-07-10
;  NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 12613
;    LENGTH: 103
;    TYPE: PRT
;    ORGANISM: Myxococcus xanthus
US-09-902-540-12613

  Query Match             71.1%;  Score 32;  DB 2;  Length 103;
  Best Local Similarity   66.7%;  Pred. No. 45;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
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Db         22 ALYATTLER 30


RESULT 46
US-09-270-767-61789
; Sequence 61789, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 61789
;    LENGTH: 147
;    TYPE: PRT
;    ORGANISM: Drosophila melanogaster
US-09-270-767-61789

  Query Match             71.1%;  Score 32;  DB 2;  Length 147;
  Best Local Similarity   66.7%;  Pred. No. 68;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||| | |:
Db         18 SLYGVTAEE 26


RESULT 47
US-09-540-236-2255
; Sequence 2255, Application US/09540236
; Patent No. 6673910
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton et al.
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CATARF
;  TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 2709.2005-001
;  CURRENT APPLICATION NUMBER: US/09/540,236
;  CURRENT FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 3840
; SEQ ID NO 2255
;    LENGTH: 149
;    TYPE: PRT
;    ORGANISM: M.catarrhalis
US-09-540-236-2255
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Qy          1 SLYGTTLE 8
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Db         90 SVYGTALE 97


RESULT 48
US-08-247-904B-10
; Sequence 10, Application US/08247904B
; Patent No. 5981699
;  GENERAL INFORMATION:
;    APPLICANT:  Rolfe, Mark
;    APPLICANT:  Eckstein, Jens W.
;    APPLICANT:  Draetta, Giulio
;    TITLE OF INVENTION:  Human Ubiquitin Conjugating Enzyme
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Foley, Hoag & Eliot
;      STREET:  One Post Office Square
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  ASCII(text)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/247,904B
;      FILING DATE:  23-MAY-1994
;      CLASSIFICATION:  530
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Vincent, Matthew P.
;      REGISTRATION NUMBER:  36,709
;      REFERENCE/DOCKET NUMBER:  MIV-029.01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 832-1000
;      TELEFAX:  (617) 832-7000
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  158 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-247-904B-10

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  Best Local Similarity   66.7%;  Pred. No. 74;
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Qy          1 SLYGTTLEQ 9
              |:|| |||:
Db         84 SVYGDTLEK 92


RESULT 49
US-08-767-942A-19
; Sequence 19, Application US/08767942A
; Patent No. 6068982
;  GENERAL INFORMATION:
;    APPLICANT:  Rolfe, Mark
;    APPLICANT:  Chiu, M. Isabel
;    APPLICANT:  Berlin, Vivian
;    APPLICANT:  Damagnez, Veronique
;    APPLICANT:  Draetta, Giulio
;    APPLICANT:  Guillaume, Cottarel
;    TITLE OF INVENTION:  UBIQUITIN CONJUGATING ENZYMES
;    NUMBER OF SEQUENCES:  45
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  FOLEY, HOAG & ELIOT LLP
;      STREET:  One Post Office Square
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109-2170
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/767,942A
;      FILING DATE:  17-DEC-1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Vincent, Matthew P.
;      REGISTRATION NUMBER:  36,709
;      REFERENCE/DOCKET NUMBER:  MIV-029.04
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-832-1000
;      TELEFAX:  617-832-7000
;  INFORMATION FOR SEQ ID NO:  19:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  158 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-767-942A-19

  Query Match             71.1%;  Score 32;  DB 2;  Length 158;
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  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |:|| |||:
Db         84 SVYGDTLEK 92


RESULT 50
US-08-117-083-14
; Sequence 14, Application US/08117083
; Patent No. 5719054
;  GENERAL INFORMATION:
;    APPLICANT:  Boursnell, Michael E.
;    APPLICANT:  Inglis, Stephen C.
;    APPLICANT:  Munro, Alan J.
;    TITLE OF INVENTION:  Recombinant Virus Vectors Encoding Human
;    TITLE OF INVENTION:  Papilloma Virus Proteins
;    NUMBER OF SEQUENCES:  70
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Walter H. Dreger
;      STREET:  4 Embarcadero Center, Suite 3400
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/117,083
;      FILING DATE:  10-SEP-1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Dreger, Walter H.
;      REGISTRATION NUMBER:  24,190
;      REFERENCE/DOCKET NUMBER:  A-58783
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-781-1989
;      TELEFAX:  415-398-3249
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;       TELEX:  910 277299
;  INFORMATION FOR SEQ ID NO:  14:
;    SEQUENCE CHARACTERISTICS:
;       LENGTH:  271 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    FEATURE:
;       NAME/KEY:  Protein
;       LOCATION:  1..271
;       OTHER INFORMATION:  /note= "Xaa refers to stop codon in
;       OTHER INFORMATION:  the open reading frame."
US-08-117-083-14

  Query Match             71.1%;  Score 32;  DB 1;  Length 271;
  Best Local Similarity   66.7%;  Pred. No. 1.4e+02;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |:|| |||:
Db         85 SVYGDTLEK 93


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OM protein - protein search, using sw model

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Title: US-08-170-344-51
Perfect score: 45
Sequence: 1 SLYGTTLEQ 9

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Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
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Maximum Match 100%
Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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| 3 | 45 | 100.0 | 23 | 5 | US-10-751-845-66 | Sequence 66, Appl |
| 4 | 45 | 100.0 | 29 | 4 | US-10-476-570-55 | Sequence 55, Appl |
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| 6 | 45 | 100.0 | 117 | 5 | US-10-751-845-126 | Sequence 126, App |
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| 8 | 45 | 100.0 | 158 | 5 | US-10-367-057-16 | Sequence 16, Appl |
| 9 | 45 | 100.0 | 158 | 6 | US-11-021-949-13 | Sequence 13, Appl |
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| 14 | 45 | 100.0 | 261 | 5 | US-10-751-845-160 | Sequence 160, App |
| 15 | 45 | 100.0 | 266 | 3 | US-09-367-309A-1 | Sequence 1, Appli |
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| 18 | 45 | 100.0 | 292 | 4 | US-10-000-903-10 | Sequence 10, Appl |
| 19 | 45 | 100.0 | 292 | 5 | US-10-899-771-10 | Sequence 10, Appl |
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| 23 | 45 | 100.0 | 390 | 5 | US-10-899-771-14 | Sequence 14, Appl |
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| 25 | 42 | 93.3 | 151 | 5 | US-10-484-063-20 | Sequence 20, Appl |
| 26 | 42 | 93.3 | 151 | 5 | US-10-484-063-27 | Sequence 27, Appl |
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| 28 | 39 | 86.7 | 149 | 6 | US-11-021-949-15 | Sequence 15, Appl |
| 29 | 38 | 84.4 | 149 | 6 | US-11-021-949-18 | Sequence 18, Appl |
| 30 | 37 | 82.2 | 20 | 4 | US-10-476-570-35 | Sequence 35, Appl |
| 31 | 37 | 82.2 | 29 | 4 | US-10-476-570-13 | Sequence 13, Appl |
| 32 | 37 | 82.2 | 95 | 4 | US-10-424-599-201912 | Sequence 201912, |
| 33 | 37 | 82.2 | 148 | 6 | US-11-021-949-19 | Sequence 19, Appl |
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| 35 | 37 | 82.2 | 151 | 6 | US-11-021-949-24 | Sequence 24, Appl |
| 36 | 37 | 82.2 | 212 | 4 | US-10-425-114-68027 | Sequence 68027, A |
| 37 | 37 | 82.2 | 320 | 4 | US-10-424-599-201908 | Sequence 201908, |
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| 39 | 36 | 80.0 | 148 | 6 | US-11-021-949-17 | Sequence 17, Appl |
| 40 | 36 | 80.0 | 426 | 4 | US-10-408-765A-2901 | Sequence 2901, Ap |
| 41 | 36 | 80.0 | 501 | 4 | US-10-124-498-2 | Sequence 2, Appli |
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| 43 | 36 | 80.0 | 765 | 4 | US-10-267-502-257 | Sequence 257, App |
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| 48 | 35 | 77.8 | 71 | 4 | US-10-425-115-349387 | Sequence 349387, |
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| 50 | 35 | 77.8 | 96 | 4 | US-10-425-115-195893 | Sequence 195893, |
| 51 | 34 | 75.6 | 149 | 6 | US-11-021-949-360 | Sequence 360, App |
| 52 | 34 | 75.6 | 191 | 6 | US-11-097-143-267 | Sequence 267, App |
| 53 | 34 | 75.6 | 242 | 5 | US-10-732-923-2076 | Sequence 2076, Ap |
| 54 | 34 | 75.6 | 242 | 5 | US-10-732-923-2089 | Sequence 2089, Ap |
| 55 | 34 | 75.6 | 245 | 5 | US-10-732-923-2126 | Sequence 2126, Ap |
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| 57 | 33 | 73.3 | 299 | 6 | US-11-097-143-11226 | Sequence 11226, A |
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| 59 | 33 | 73.3 | 526 | 5 | US-10-732-923-23184 | Sequence 23184, A |
| 60 | 33 | 73.3 | 634 | 5 | US-10-450-763-37875 | Sequence 37875, A |
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| 62 | 33 | 73.3 | 1146 | 4 | US-10-791-844-1 | Sequence 1, Appli |
| 63 | 33 | 73.3 | 1182 | 3 | US-09-990-046-7 | Sequence 7, Appli |
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| 69 | 33 | 73.3 | 3048 | 5 | US-10-450-763-35122 | Sequence 35122, A |
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| 72 | 32 | 71.1 | 86 | 4 | US-10-335-977-7782 | Sequence 7782, Ap |
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| 74 | 32 | 71.1 | 89 | 4 | US-10-425-115-347141 | Sequence 347141, |
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| 77 | 32 | 71.1 | 150 | 6 | US-11-021-949-27 | Sequence 27, Appl |
| 78 | 32 | 71.1 | 151 | 6 | US-11-021-949-25 | Sequence 25, Appl |
| 79 | 32 | 71.1 | 151 | 6 | US-11-021-949-26 | Sequence 26, Appl |
| 80 | 32 | 71.1 | 155 | 6 | US-11-021-949-22 | Sequence 22, Appl |
| 81 | 32 | 71.1 | 155 | 6 | US-11-021-949-23 | Sequence 23, Appl |
| 82 | 32 | 71.1 | 158 | 5 | US-10-800-023-27 | Sequence 27, Appl |
| 83 | 32 | 71.1 | 158 | 6 | US-11-021-949-28 | Sequence 28, Appl |
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| 87 | 32 | 71.1 | 208 | 4 | US-10-437-963-185533 | Sequence 185533, |
| 88 | 32 | 71.1 | 226 | 5 | US-10-732-923-3409 | Sequence 3409, Ap |
| 89 | 32 | 71.1 | 248 | 4 | US-10-767-701-45797 | Sequence 45797, A |
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| 91 | 32 | 71.1 | 278 | 4 | US-10-000-903-21 | Sequence 21, Appl |
| 92 | 32 | 71.1 | 278 | 5 | US-10-899-771-21 | Sequence 21, Appl |
| 93 | 32 | 71.1 | 280 | 6 | US-11-097-143-9063 | Sequence 9063, Ap |
| 94 | 32 | 71.1 | 297 | 4 | US-10-437-963-115482 | Sequence 115482, |
| 95 | 32 | 71.1 | 383 | 4 | US-10-000-903-23 | Sequence 23, Appl |
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| 101 | 32 | 71.1 | 431 | 4 | US-10-282-122A-47456 | Sequence 47456, A |
| 102 | 32 | 71.1 | 449 | 5 | US-10-450-763-31298 | Sequence 31298, A |
| 103 | 32 | 71.1 | 615 | 5 | US-10-450-763-32948 | Sequence 32948, A |
| 104 | 32 | 71.1 | 624 | 4 | US-10-369-493-6941 | Sequence 6941, Ap |
| 105 | 32 | 71.1 | 653 | 4 | US-10-369-493-15499 | Sequence 15499, A |
| 106 | 32 | 71.1 | 653 | 4 | US-10-369-493-15870 | Sequence 15870, A |
| 107 | 32 | 71.1 | 653 | 4 | US-10-369-493-16245 | Sequence 16245, A |
| 108 | 32 | 71.1 | 688 | 4 | US-10-437-963-199859 | Sequence 199859, |
| 109 | 32 | 71.1 | 965 | 4 | US-10-369-493-6940 | Sequence 6940, Ap |
| 110 | 32 | 71.1 | 1188 | 4 | US-10-369-493-19385 | Sequence 19385, A |
| 111 | 32 | 71.1 | 1916 | 6 | US-11-097-143-14061 | Sequence 14061, A |
| 112 | 32 | 71.1 | 1916 | 6 | US-11-097-143-25059 | Sequence 25059, A |
| 113 | 31 | 68.9 | 10 | 5 | US-10-751-845-91 | Sequence 91, Appl |
| 114 | 31 | 68.9 | 25 | 4 | US-10-424-599-284860 | Sequence 284860, |
| 115 | 31 | 68.9 | 31 | 4 | US-10-479-546-7 | Sequence 7, Appli |
| 116 | 31 | 68.9 | 75 | 4 | US-10-437-963-148575 | Sequence 148575, |
| 117 | 31 | 68.9 | 79 | 4 | US-10-424-599-271792 | Sequence 271792, |
| 118 | 31 | 68.9 | 103 | 4 | US-10-097-111-350 | Sequence 350, App |
| 119 | 31 | 68.9 | 104 | 4 | US-10-425-115-342424 | Sequence 342424, |
| 120 | 31 | 68.9 | 111 | 4 | US-10-425-115-194834 | Sequence 194834, |
| 121 | 31 | 68.9 | 128 | 4 | US-10-424-599-260403 | Sequence 260403, |
| 122 | 31 | 68.9 | 148 | 6 | US-11-021-949-359 | Sequence 359, App |
| 123 | 31 | 68.9 | 158 | 6 | US-11-021-949-30 | Sequence 30, Appl |
| 124 | 31 | 68.9 | 158 | 6 | US-11-021-949-361 | Sequence 361, App |
| 125 | 31 | 68.9 | 160 | 5 | US-10-450-763-33732 | Sequence 33732, A |
| 126 | 31 | 68.9 | 160 | 6 | US-11-021-949-32 | Sequence 32, Appl |
| 127 | 31 | 68.9 | 162 | 6 | US-11-021-949-31 | Sequence 31, Appl |
| 128 | 31 | 68.9 | 164 | 4 | US-10-424-599-162554 | Sequence 162554, |
| 129 | 31 | 68.9 | 185 | 4 | US-10-425-115-251673 | Sequence 251673, |
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| 131 | 31 | 68.9 | 194 | 4 | US-10-767-701-37096 | Sequence 37096, A |
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| 133 | 31 | 68.9 | 194 | 5 | US-10-739-930-9711 | Sequence 9711, Ap |
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| 136 | 31 | 68.9 | 234 | 4 | US-10-425-114-65331 | Sequence 65331, A |
| 137 | 31 | 68.9 | 287 | 4 | US-10-425-114-37007 | Sequence 37007, A |
| 138 | 31 | 68.9 | 334 | 4 | US-10-424-599-180634 | Sequence 180634, |
| 139 | 31 | 68.9 | 344 | 4 | US-10-425-115-361307 | Sequence 361307, |
| 140 | 31 | 68.9 | 357 | 4 | US-10-412-699B-1537 | Sequence 1537, Ap |
| 141 | 31 | 68.9 | 363 | 4 | US-10-369-493-20526 | Sequence 20526, A |
| 142 | 31 | 68.9 | 383 | 4 | US-10-369-493-1167 | Sequence 1167, Ap |
| 143 | 31 | 68.9 | 388 | 4 | US-10-369-493-11349 | Sequence 11349, A |
| 144 | 31 | 68.9 | 391 | 4 | US-10-369-493-906 | Sequence 906, App |
| 145 | 31 | 68.9 | 409 | 4 | US-10-412-699B-1538 | Sequence 1538, Ap |
| 146 | 31 | 68.9 | 409 | 4 | US-10-437-963-189081 | Sequence 189081, |
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| 158 | 31 | 68.9 | 602 | 4 | US-10-424-599-254332 | Sequence 254332, |
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| 161 | 31 | 68.9 | 730 | 4 | US-10-042-865-51 | Sequence 51, Appl |
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| 163 | 31 | 68.9 | 730 | 4 | US-10-408-765A-2505 | Sequence 2505, Ap |
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| 165 | 31 | 68.9 | 743 | 5 | US-10-473-127-993 | Sequence 993, App |
| 166 | 31 | 68.9 | 743 | 5 | US-10-473-127-994 | Sequence 994, App |
| 167 | 31 | 68.9 | 743 | 5 | US-10-473-127-995 | Sequence 995, App |
| 168 | 31 | 68.9 | 743 | 5 | US-10-473-127-996 | Sequence 996, App |
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| 170 | 31 | 68.9 | 743 | 5 | US-10-686-282-1 | Sequence 1, Appli |
| 171 | 31 | 68.9 | 743 | 5 | US-10-686-349-1 | Sequence 1, Appli |
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| 174 | 31 | 68.9 | 748 | 5 | US-10-473-127-1000 | Sequence 1000, Ap |
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| 183 | 31 | 68.9 | 750 | 5 | US-10-473-127-991 | Sequence 991, App |
| 184 | 31 | 68.9 | 750 | 5 | US-10-473-127-999 | Sequence 999, App |
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| 186 | 31 | 68.9 | 750 | 5 | US-10-473-127-1002 | Sequence 1002, Ap |
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| 188 | 31 | 68.9 | 750 | 5 | US-10-473-127-1004 | Sequence 1004, Ap |
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| 203 | 31 | 68.9 | 1434 | 4 | US-10-421-446-10 | Sequence 10, Appl |
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| 206 | 31 | 68.9 | 1447 | 3 | US-09-754-032-19 | Sequence 19, Appl |
| 207 | 31 | 68.9 | 1447 | 4 | US-10-421-446-19 | Sequence 19, Appl |
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| 245 | 30 | 66.7 | 274 | 4 | US-10-424-599-199496 | Sequence 199496, |
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| 258 | 30 | 66.7 | 355 | 4 | US-10-424-599-185303 | Sequence 185303, |
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| 357 | 29 | 64.4 | 143 | 4 | US-10-424-599-178522 | Sequence 178522, |
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| 398 | 29 | 64.4 | 312 | 3 | US-09-907-218-57 | Sequence 57, Appl |
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| 403 | 29 | 64.4 | 329 | 4 | US-10-440-523-124 | Sequence 124, App |
| 404 | 29 | 64.4 | 329 | 4 | US-10-440-503-124 | Sequence 124, App |
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| 466 | 29 | 64.4 | 779 | 5 | US-10-732-923-1717 | Sequence 1717, Ap |
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| 676 | 28 | 62.2 | 237 | 4 | US-10-282-122A-49228 | Sequence 49228, A |
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| 892 | 28 | 62.2 | 683 | 5 | US-10-751-736-125 | Sequence 125, App |
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| 900 | 28 | 62.2 | 683 | 5 | US-10-631-467-942 | Sequence 942, App |
| 901 | 28 | 62.2 | 701 | 4 | US-10-425-115-294339 | Sequence 294339, |
| 902 | 28 | 62.2 | 705 | 5 | US-10-504-543-2 | Sequence 2, Appli |
| 903 | 28 | 62.2 | 706 | 5 | US-10-732-923-8931 | Sequence 8931, Ap |
| 904 | 28 | 62.2 | 706 | 5 | US-10-732-923-8942 | Sequence 8942, Ap |
| 905 | 28 | 62.2 | 707 | 4 | US-10-027-828-17 | Sequence 17, Appl |
| 906 | 28 | 62.2 | 713 | 4 | US-10-332-937-2 | Sequence 2, Appli |
| 907 | 28 | 62.2 | 718 | 4 | US-10-425-115-206592 | Sequence 206592, |
| 908 | 28 | 62.2 | 719 | 5 | US-10-865-978-16 | Sequence 16, Appl |
| 909 | 28 | 62.2 | 728 | 4 | US-10-425-114-53993 | Sequence 53993, A |
| 910 | 28 | 62.2 | 740 | 4 | US-10-389-566-2392 | Sequence 2392, Ap |
| 911 | 28 | 62.2 | 759 | 4 | US-10-156-761-10673 | Sequence 10673, A |
| 912 | 28 | 62.2 | 770 | 4 | US-10-437-963-170879 | Sequence 170879, |
| 913 | 28 | 62.2 | 772 | 3 | US-09-815-837-74 | Sequence 74, Appl |
| 914 | 28 | 62.2 | 774 | 3 | US-09-815-837-72 | Sequence 72, Appl |
| 915 | 28 | 62.2 | 778 | 4 | US-10-342-844-72 | Sequence 72, Appl |
| 916 | 28 | 62.2 | 794 | 6 | US-11-097-143-1692 | Sequence 1692, Ap |
| 917 | 28 | 62.2 | 817 | 5 | US-10-840-060-305 | Sequence 305, App |
| 918 | 28 | 62.2 | 828 | 4 | US-10-282-122A-57226 | Sequence 57226, A |
| 919 | 28 | 62.2 | 829 | 3 | US-09-764-367A-7 | Sequence 7, Appli |
| 920 | 28 | 62.2 | 831 | 3 | US-09-815-242-10520 | Sequence 10520, A |
| 921 | 28 | 62.2 | 836 | 5 | US-10-732-923-18456 | Sequence 18456, A |
| 922 | 28 | 62.2 | 838 | 3 | US-09-978-303-2 | Sequence 2, Appli |
| 923 | 28 | 62.2 | 838 | 4 | US-10-137-316-3 | Sequence 3, Appli |
| 924 | 28 | 62.2 | 838 | 4 | US-10-342-844-38 | Sequence 38, Appl |
| 925 | 28 | 62.2 | 838 | 4 | US-10-342-844-40 | Sequence 40, Appl |
| 926 | 28 | 62.2 | 838 | 5 | US-10-915-017-2 | Sequence 2, Appli |
| 927 | 28 | 62.2 | 838 | 6 | US-11-013-090-22 | Sequence 22, Appl |
| 928 | 28 | 62.2 | 839 | 3 | US-09-824-258-2 | Sequence 2, Appli |
| 929 | 28 | 62.2 | 839 | 3 | US-09-824-258-4 | Sequence 4, Appli |
| 930 | 28 | 62.2 | 839 | 3 | US-09-824-258-8 | Sequence 8, Appli |
| 931 | 28 | 62.2 | 839 | 3 | US-09-978-303-34 | Sequence 34, Appl |
| 932 | 28 | 62.2 | 839 | 4 | US-10-128-853-2 | Sequence 2, Appli |
| 933 | 28 | 62.2 | 839 | 4 | US-10-000-823-5 | Sequence 5, Appli |
| 934 | 28 | 62.2 | 839 | 4 | US-10-342-844-42 | Sequence 42, Appl |
| 935 | 28 | 62.2 | 839 | 4 | US-10-342-844-48 | Sequence 48, Appl |
| 936 | 28 | 62.2 | 839 | 4 | US-10-342-844-50 | Sequence 50, Appl |
| 937 | 28 | 62.2 | 839 | 4 | US-10-342-844-74 | Sequence 74, Appl |
| 938 | 28 | 62.2 | 839 | 4 | US-10-342-844-82 | Sequence 82, Appl |
| 939 | 28 | 62.2 | 839 | 4 | US-10-757-262-64 | Sequence 64, Appl |
| 940 | 28 | 62.2 | 839 | 5 | US-10-782-695-9 | Sequence 9, Appli |
| 941 | 28 | 62.2 | 839 | 5 | US-10-915-017-34 | Sequence 34, Appl |
| 942 | 28 | 62.2 | 839 | 6 | US-11-013-090-2 | Sequence 2, Appli |
| 943 | 28 | 62.2 | 845 | 4 | US-10-437-963-156361 | Sequence 156361, |
| 944 | 28 | 62.2 | 851 | 4 | US-10-437-963-116374 | Sequence 116374, |
| 945 | 28 | 62.2 | 872 | 4 | US-10-437-963-174575 | Sequence 174575, |
| 946 | 28 | 62.2 | 883 | 4 | US-10-369-493-18563 | Sequence 18563, A |
| 947 | 28 | 62.2 | 888 | 4 | US-10-389-566-1057 | Sequence 1057, Ap |
| 948 | 28 | 62.2 | 889 | 5 | US-10-865-978-22 | Sequence 22, Appl |
| 949 | 28 | 62.2 | 890 | 4 | US-10-282-122A-42879 | Sequence 42879, A |
| 950 | 28 | 62.2 | 895 | 4 | US-10-437-963-122674 | Sequence 122674, |
| 951 | 28 | 62.2 | 900 | 5 | US-10-865-978-15 | Sequence 15, Appl |
| 952 | 28 | 62.2 | 911 | 3 | US-09-855-824-4 | Sequence 4, Appli |
| 953 | 28 | 62.2 | 911 | 5 | US-10-476-542-4 | Sequence 4, Appli |
| 954 | 28 | 62.2 | 925 | 5 | US-10-865-978-25 | Sequence 25, Appl |
| 955 | 28 | 62.2 | 961 | 3 | US-09-930-512-67 | Sequence 67, Appl |
| 956 | 28 | 62.2 | 961 | 4 | US-10-406-073-13 | Sequence 13, Appl |
| 957 | 28 | 62.2 | 961 | 4 | US-10-231-913-88 | Sequence 88, Appl |
| 958 | 28 | 62.2 | 961 | 4 | US-10-029-020-35 | Sequence 35, Appl |
| 959 | 28 | 62.2 | 969 | 5 | US-10-450-763-59422 | Sequence 59422, A |
| 960 | 28 | 62.2 | 978 | 3 | US-09-864-761-43207 | Sequence 43207, A |
| 961 | 28 | 62.2 | 991 | 5 | US-10-865-978-34 | Sequence 34, Appl |
| 962 | 28 | 62.2 | 1006 | 4 | US-10-210-130-62 | Sequence 62, Appl |
| 963 | 28 | 62.2 | 1020 | 5 | US-10-450-763-53405 | Sequence 53405, A |
| 964 | 28 | 62.2 | 1039 | 4 | US-10-369-493-16475 | Sequence 16475, A |
| 965 | 28 | 62.2 | 1039 | 5 | US-10-865-978-30 | Sequence 30, Appl |
| 966 | 28 | 62.2 | 1042 | 3 | US-09-776-191-62 | Sequence 62, Appl |
| 967 | 28 | 62.2 | 1042 | 4 | US-10-156-214A-29 | Sequence 29, Appl |
| 968 | 28 | 62.2 | 1042 | 5 | US-10-865-978-2 | Sequence 2, Appli |
| 969 | 28 | 62.2 | 1042 | 5 | US-10-926-083-2 | Sequence 2, Appli |
| 970 | 28 | 62.2 | 1044 | 5 | US-10-865-978-9 | Sequence 9, Appli |
| 971 | 28 | 62.2 | 1071 | 4 | US-10-369-493-19275 | Sequence 19275, A |
| 972 | 28 | 62.2 | 1076 | 4 | US-10-276-774-2345 | Sequence 2345, Ap |
| 973 | 28 | 62.2 | 1078 | 4 | US-10-144-194A-24 | Sequence 24, Appl |
| 974 | 28 | 62.2 | 1078 | 5 | US-10-491-566-24 | Sequence 24, Appl |
| 975 | 28 | 62.2 | 1088 | 5 | US-10-732-923-16950 | Sequence 16950, A |
| 976 | 28 | 62.2 | 1091 | 4 | US-10-425-115-294325 | Sequence 294325, |

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|---|---|---|---|---|---|---|
| 977 | 28 | 62.2 | 1098 | 5 | US-10-450-763-33706 | Sequence 33706, A |
| 978 | 28 | 62.2 | 1156 | 4 | US-10-437-963-169127 | Sequence 169127, |
| 979 | 28 | 62.2 | 1159 | 3 | US-09-815-242-11089 | Sequence 11089, A |
| 980 | 28 | 62.2 | 1159 | 4 | US-10-282-122A-58275 | Sequence 58275, A |
| 981 | 28 | 62.2 | 1163 | 6 | US-11-097-143-7365 | Sequence 7365, Ap |
| 982 | 28 | 62.2 | 1168 | 4 | US-10-655-915-4 | Sequence 4, Appli |
| 983 | 28 | 62.2 | 1168 | 5 | US-10-484-148-5 | Sequence 5, Appli |
| 984 | 28 | 62.2 | 1168 | 5 | US-10-719-993-532 | Sequence 532, App |
| 985 | 28 | 62.2 | 1177 | 4 | US-10-369-493-21558 | Sequence 21558, A |
| 986 | 28 | 62.2 | 1179 | 4 | US-10-369-493-1330 | Sequence 1330, Ap |
| 987 | 28 | 62.2 | 1179 | 4 | US-10-369-493-20394 | Sequence 20394, A |
| 988 | 28 | 62.2 | 1184 | 3 | US-09-815-242-5229 | Sequence 5229, Ap |
| 989 | 28 | 62.2 | 1186 | 4 | US-10-369-493-23124 | Sequence 23124, A |
| 990 | 28 | 62.2 | 1186 | 4 | US-10-282-122A-60346 | Sequence 60346, A |
| 991 | 28 | 62.2 | 1188 | 3 | US-09-815-242-12125 | Sequence 12125, A |
| 992 | 28 | 62.2 | 1188 | 4 | US-10-369-493-17323 | Sequence 17323, A |
| 993 | 28 | 62.2 | 1188 | 4 | US-10-282-122A-43998 | Sequence 43998, A |
| 994 | 28 | 62.2 | 1188 | 4 | US-10-282-122A-71792 | Sequence 71792, A |
| 995 | 28 | 62.2 | 1188 | 5 | US-10-857-625-628 | Sequence 628, App |
| 996 | 28 | 62.2 | 1189 | 4 | US-10-282-122A-45818 | Sequence 45818, A |
| 997 | 28 | 62.2 | 1189 | 4 | US-10-282-122A-70920 | Sequence 70920, A |
| 998 | 28 | 62.2 | 1189 | 4 | US-10-425-114-65169 | Sequence 65169, A |
| 999 | 28 | 62.2 | 1192 | 3 | US-09-815-242-10903 | Sequence 10903, A |
| 1000 | 28 | 62.2 | 1192 | 4 | US-10-282-122A-57178 | Sequence 57178, A |

ALIGNMENTS

RESULT 1
US-10-476-570-34
; Sequence 34, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 84-98
US-10-476-570-34

Query Match 100.0%; Score 45; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.027;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
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Db 6 SLYGTTLEQ 14

RESULT 2
US-10-476-570-36
; Sequence 36, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 89-103
US-10-476-570-36

Query Match 100.0%; Score 45; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.027;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
||||||||| 
Db 1 SLYGTTLEQ 9

RESULT 3
US-10-751-845-66
; Sequence 66, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 66
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-66

Query Match 100.0%; Score 45; DB 5; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.044;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
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Db 11 SLYGTTLEQ 19

RESULT 4
US-10-476-570-55
; Sequence 55, Application US/10476570
; Publication No. US20040170644A1

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; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 55
;   LENGTH: 29
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 80-108
US-10-476-570-55

  Query Match            100.0%;  Score 45;  DB 4;  Length 29;
  Best Local Similarity  100.0%;  Pred. No. 0.057;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db         10 SLYGTTLEQ 18


RESULT 5
US-10-858-384-8
; Sequence 8, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 8
;   LENGTH: 29
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
;   OTHER INFORMATION: for E6 of HPV
US-10-858-384-8

  Query Match            100.0%;  Score 45;  DB 5;  Length 29;
  Best Local Similarity  100.0%;  Pred. No. 0.057;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db         10 SLYGTTLEQ 18


RESULT 6
US-10-751-845-126
; Sequence 126, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 126
;   LENGTH: 117
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-126

  Query Match            100.0%;  Score 45;  DB 5;  Length 117;
  Best Local Similarity  100.0%;  Pred. No. 0.27;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db         55 SLYGTTLEQ 63


RESULT 7
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-10-858-384-2

  Query Match            100.0%;  Score 45;  DB 5;  Length 158;
  Best Local Similarity  100.0%;  Pred. No. 0.38;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db         89 SLYGTTLEQ 97


RESULT 8
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US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
; APPLICANT: Cuthill, Scott;
; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; APPLICANT: Ooi, Chean Eng
; TITLE OF INVENTION: Complexes and Methods of Using Same
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/256,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 16
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-367-057-16

Query Match 100.0%; Score 45; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
||||||||| 
Db 89 SLYGTTLEQ 97

RESULT 9
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

Query Match 100.0%; Score 45; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
||||||||| 
Db 89 SLYGTTLEQ 97

RESULT 10
US-10-472-724-2
; Sequence 2, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 171
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

Query Match 100.0%; Score 45; DB 4; Length 171;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
||||||||| 
Db 94 SLYGTTLEQ 102

RESULT 11
US-10-751-845-157
; Sequence 157, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 157
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157

Query Match 100.0%; Score 45; DB 5; Length 236;
Best Local Similarity 100.0%; Pred. No. 0.59;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
||||||||| 
Db 55 SLYGTTLEQ 63

RESULT 12
US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001

; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 158
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158

Query Match 100.0%; Score 45; DB 5; Length 237;
Best Local Similarity 100.0%; Pred. No. 0.59;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
||||||||||
Db 56 SLYGTTLEQ 64

RESULT 13
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOUL, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/11/072,288
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US/09/462,993
; PRIOR FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Derivated from
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
; OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

Query Match 100.0%; Score 45; DB 6; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.61;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
||||||||||
Db 117 SLYGTTLEQ 125

RESULT 14
US-10-751-845-160
; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 160
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160

Query Match 100.0%; Score 45; DB 5; Length 261;
Best Local Similarity 100.0%; Pred. No. 0.66;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
||||||||||
Db 80 SLYGTTLEQ 88

RESULT 15
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 45; DB 3; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.68;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
||||||||||
Db 89 SLYGTTLEQ 97

RESULT 16
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela

; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-4

Query Match 100.0%; Score 45; DB 4; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
||||||||| 
Db 195 SLYGTTLEQ 203

RESULT 17
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
; OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-4

Query Match 100.0%; Score 45; DB 5; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
||||||||| 
Db 195 SLYGTTLEQ 203

RESULT 18
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-10

Query Match 100.0%; Score 45; DB 4; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.75;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
||||||||| 
Db 214 SLYGTTLEQ 222

RESULT 19
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-10

Query Match 100.0%; Score 45; DB 5; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.75;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
||||||||| 
Db 214 SLYGTTLEQ 222

RESULT 20
US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande

```
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-6

  Query Match             100.0%;  Score 45;  DB 4;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 0.98;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db        195 SLYGTTLEQ 203


RESULT 21
US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
;   OTHER INFORMATION: virus type 16)
US-10-899-771-6

  Query Match             100.0%;  Score 45;  DB 5;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 0.98;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db        195 SLYGTTLEQ 203


RESULT 22
US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-14

  Query Match             100.0%;  Score 45;  DB 4;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db        214 SLYGTTLEQ 222


RESULT 23
US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
;   OTHER INFORMATION: pneumoniae and E6E7 fusion from Human papilloma
;   OTHER INFORMATION: virus type 16)
US-10-899-771-14

  Query Match             100.0%;  Score 45;  DB 5;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db        214 SLYGTTLEQ 222


RESULT 24
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
;  APPLICANT: Schuler, Gerold
```

```
;  APPLICANT:  N.V. Antwerps Innovatiecentrum
;  TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
;  TITLE OF INVENTION:  Polynucleotides by Electroporation
;  FILE REFERENCE: 021505wo/JH/ml
;  CURRENT APPLICATION NUMBER: US/10/177,390
;  CURRENT FILING DATE:  2002-06-20
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-177-390-6

  Query Match             93.3%;  Score 42;  DB 4;  Length 151;
  Best Local Similarity   88.9%;  Pred. No. 1.5;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |:|||||||
Db         82 SVYGTTLEQ 90


RESULT 25
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-484-063-20

  Query Match             93.3%;  Score 42;  DB 5;  Length 151;
  Best Local Similarity   88.9%;  Pred. No. 1.5;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |:|||||||
Db         82 SVYGTTLEQ 90


RESULT 26
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-484-063-27

  Query Match             93.3%;  Score 42;  DB 5;  Length 151;
  Best Local Similarity   88.9%;  Pred. No. 1.5;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |:|||||||
Db         82 SVYGTTLEQ 90


RESULT 27
US-10-751-845-90
; Sequence 90, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 90
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-90

  Query Match             91.1%;  Score 41;  DB 5;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 LYGTTLEQ 9
              ||||||||
Db          1 LYGTTLEQ 8


RESULT 28
US-11-021-949-15
; Sequence 15, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 15
```

; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-15

Query Match 86.7%; Score 39; DB 6; Length 149;
Best Local Similarity 88.9%; Pred. No. 6.3;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
||||.||||
Db 82 SLYGDTLEQ 90

RESULT 29
US-11-021-949-18
; Sequence 18, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-18

Query Match 84.4%; Score 38; DB 6; Length 149;
Best Local Similarity 77.8%; Pred. No. 10;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
|:||||:
Db 82 SVYGTTLEK 90

RESULT 30
US-10-476-570-35
; Sequence 35, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 20
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 91-110
US-10-476-570-35

Query Match 82.2%; Score 37; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 YGTTLEQ 9
|||||||
Db 1 YGTTLEQ 7

RESULT 31
US-10-476-570-13
; Sequence 13, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 29
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 91-119
US-10-476-570-13

Query Match 82.2%; Score 37; DB 4; Length 29;
Best Local Similarity 100.0%; Pred. No. 2.6;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 YGTTLEQ 9
|||||||
Db 1 YGTTLEQ 7

RESULT 32
US-10-424-599-201912
; Sequence 201912, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 201912
; LENGTH: 95
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:

; OTHER INFORMATION: Clone ID: PAT_MRT3847_24351C.1.pep
US-10-424-599-201912

Query Match 82.2%; Score 37; DB 4; Length 95;
Best Local Similarity 77.8%; Pred. No. 9.8;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
:||| ||||
Db 46 NLYGNTLEQ 54

RESULT 33
US-11-021-949-19
; Sequence 19, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 19
; LENGTH: 148
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-19

Query Match 82.2%; Score 37; DB 6; Length 148;
Best Local Similarity 87.5%; Pred. No. 16;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLYGTTLE 8
|:||||||
Db 83 SVYGTTLE 90

RESULT 34
US-11-021-949-16
; Sequence 16, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-16

Query Match 82.2%; Score 37; DB 6; Length 149;
Best Local Similarity 77.8%; Pred. No. 16;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
|:|| ||||
Db 82 SVYGNTLEQ 90

RESULT 35
US-11-021-949-24
; Sequence 24, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 151
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-24

Query Match 82.2%; Score 37; DB 6; Length 151;
Best Local Similarity 87.5%; Pred. No. 17;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLYGTTLE 8
|:||||||
Db 82 SVYGTTLE 89

RESULT 36
US-10-425-114-68027
; Sequence 68027, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 68027
; LENGTH: 212
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 700725149_FLI.pep
US-10-425-114-68027

Query Match 82.2%; Score 37; DB 4; Length 212;
Best Local Similarity 77.8%; Pred. No. 24;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
:||| ||||
Db 104 NLYGNTLEQ 112

```
RESULT 37
US-10-424-599-201908
; Sequence 201908, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 201908
;   LENGTH: 320
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_24348C.1.pep
US-10-424-599-201908

  Query Match             82.2%;  Score 37;  DB 4;  Length 320;
  Best Local Similarity   77.8%;  Pred. No. 38;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              :||| ||||
Db        212 NLYGNTLEQ 220


RESULT 38
US-10-156-761-11356
; Sequence 11356, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
;  APPLICANT: OMURA, SATOSHI
;  APPLICANT:  IKEDA, HARUO
;  APPLICANT:  ISHIKAWA, JUN
;  APPLICANT:  HORIKAWA, HIROSHI
;  APPLICANT:  SHIBA, TADAYOSHI
;  APPLICANT:  SAKAKI, YOSHIYUKI
;  APPLICANT:  HATTORI, MASAHIRA
;  TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
;  FILE REFERENCE: 249-262
;  CURRENT APPLICATION NUMBER: US/10/156,761
;  CURRENT FILING DATE:  2002-05-29
;  PRIOR APPLICATION NUMBER: JP 2001-204089
;  PRIOR FILING DATE: 2001-05-30
;  PRIOR APPLICATION NUMBER: JP 2001-272697
;  PRIOR FILING DATE: 2001-08-02
;  NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 11356
;   LENGTH: 389
;   TYPE: PRT
;   ORGANISM: Streptomyces avermitilis
US-10-156-761-11356

  Query Match             82.2%;  Score 37;  DB 4;  Length 389;
  Best Local Similarity   100.0%;  Pred. No. 48;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 YGTTLEQ 9
              |||||||
Db        158 YGTTLEQ 164


RESULT 39
US-11-021-949-17
; Sequence 17, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 17
;   LENGTH: 148
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-17

  Query Match             80.0%;  Score 36;  DB 6;  Length 148;
  Best Local Similarity   77.8%;  Pred. No. 26;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||| |||:
Db         82 SLYGKTLEE 90


RESULT 40
US-10-408-765A-2901
; Sequence 2901, Application US/10408765A
; Publication No. US20040101874A1
; GENERAL INFORMATION:
;  APPLICANT: Ghosh, Soumitra S.
;  APPLICANT:  Fahy, Eoin D.
;  APPLICANT:  Zhang, Bing
;  APPLICANT:  Gibson, Bradford W.
;  APPLICANT:  Taylor, Steven W.
;  APPLICANT:  Glenn, Gary M.
;  APPLICANT:  Warnock, Dale E.
;  TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
;  TITLE OF INVENTION:  IDENTIFIED IN THE MITOCHONDRIAL PROTEOME
;  FILE REFERENCE: 660088.465
;  CURRENT APPLICATION NUMBER: US/10/408,765A
;  CURRENT FILING DATE:  2003-04-04
;  NUMBER OF SEQ ID NOS: 3077
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2901
;   LENGTH: 426
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-408-765A-2901

  Query Match             80.0%;  Score 36;  DB 4;  Length 426;
  Best Local Similarity   77.8%;  Pred. No. 85;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||:| |
Db        397 SLYGTSLSQ 405


RESULT 41
US-10-124-498-2
; Sequence 2, Application US/10124498
; Publication No. US20030017983A1
; GENERAL INFORMATION:
;  APPLICANT: Bertin, John
;  APPLICANT:  Wang, Weiye
;  APPLICANT:  Blatcher, Maria
```

```
;  TITLE OF INVENTION: NOVEL MOLECULES OF THE PYRIN/NBS/LRR
;  TITLE OF INVENTION:  PROTEIN FAMILY AND USES THEREOF
;  FILE REFERENCE: 07334-367001
;  CURRENT APPLICATION NUMBER: US/10/124,498
;  CURRENT FILING DATE:  2002-04-17
;  PRIOR APPLICATION NUMBER: 10/066,521
;  PRIOR FILING DATE: 2002-01-31
;  PRIOR APPLICATION NUMBER: 60/318,645
;  PRIOR FILING DATE: 2001-09-10
;  PRIOR APPLICATION NUMBER: 60/265,231
;  PRIOR FILING DATE: 2001-01-31
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 501
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-124-498-2

  Query Match             80.0%;  Score 36;  DB 4;  Length 501;
  Best Local Similarity   77.8%;  Pred. No. 1e+02;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||:| |
Db        258 SLYGTSLSQ 266


RESULT 42
US-10-066-521-2
; Sequence 2, Application US/10066521
; Publication No. US20030027757A1
; GENERAL INFORMATION:
;  APPLICANT: Bertin, John
;  APPLICANT:  Wang, Weiye
;  APPLICANT:  Blatcher, Maria
;  TITLE OF INVENTION: NOVEL MOLECULES OF THE PYRIN/NBS/LRR
;  TITLE OF INVENTION:  PROTEIN FAMILY AND USES THEREOF
;  FILE REFERENCE: 07334-334001
;  CURRENT APPLICATION NUMBER: US/10/066,521
;  CURRENT FILING DATE:  2002-06-25
;  PRIOR APPLICATION NUMBER: 60/318,645
;  PRIOR FILING DATE: 2001-09-10
;  PRIOR APPLICATION NUMBER: 60/265,231
;  PRIOR FILING DATE: 2001-01-31
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 501
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-066-521-2

  Query Match             80.0%;  Score 36;  DB 4;  Length 501;
  Best Local Similarity   77.8%;  Pred. No. 1e+02;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||:| |
Db        258 SLYGTSLSQ 266


RESULT 43
US-10-267-502-257
; Sequence 257, Application US/10267502
; Publication No. US20040071700A1
; GENERAL INFORMATION:
;  APPLICANT: Kim, Jaeseob
;  APPLICANT:  Galant, Ron
;  TITLE OF INVENTION: Obesity Linked Genes
;  FILE REFERENCE: LSD-07416
;  CURRENT APPLICATION NUMBER: US/10/267,502
;  CURRENT FILING DATE:  2003-01-27
;  NUMBER OF SEQ ID NOS: 439
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 257
;   LENGTH: 765
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-10-267-502-257

  Query Match             80.0%;  Score 36;  DB 4;  Length 765;
  Best Local Similarity   66.7%;  Pred. No. 1.6e+02;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              :|||||:|:
Db        411 ALYGTTVEE 419


RESULT 44
US-10-794-342-14
; Sequence 14, Application US/10794342
; Publication No. US20040253615A1
; GENERAL INFORMATION:
;  APPLICANT: Inohara, Naohiro
;  APPLICANT:  Nunez, Gabriel
;  TITLE OF INVENTION: NOD Nucleic Acids and Polypeptides
;  FILE REFERENCE: UM-08922
;  CURRENT APPLICATION NUMBER: US/10/794,342
;  CURRENT FILING DATE:  2004-03-05
;  NUMBER OF SEQ ID NOS: 22
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 14
;   LENGTH: 991
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-794-342-14

  Query Match             80.0%;  Score 36;  DB 5;  Length 991;
  Best Local Similarity   77.8%;  Pred. No. 2.2e+02;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||:| |
Db        691 SLYGTSLSQ 699


RESULT 45
US-10-751-845-85
; Sequence 85, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 85
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-85

  Query Match             77.8%;  Score 35;  DB 5;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.7e+06;
```

```
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTL 7
              |||||||
Db          3 SLYGTTL 9


RESULT 46
US-10-476-570-33
; Sequence 33, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 33
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 81-95
US-10-476-570-33

  Query Match             77.8%;  Score 35;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 3.2;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTL 7
              |||||||
Db          9 SLYGTTL 15


RESULT 47
US-10-476-570-12
; Sequence 12, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 76-95
US-10-476-570-12

  Query Match             77.8%;  Score 35;  DB 4;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 4.5;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTL 7
              |||||||
Db         14 SLYGTTL 20


RESULT 48
US-10-425-115-349387
; Sequence 349387, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 349387
;   LENGTH: 71
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_81807C.1.pep
US-10-425-115-349387

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RESULT 49
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; Sequence 219864, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 219864
;   LENGTH: 82
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
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RESULT 50
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; Sequence 195893, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:32:07 ; Search time 18.4 Seconds
(without alignments)
22.639 Million cell updates/sec

Title: US-08-170-344-51
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Scoring table: BLOSUM62
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Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 7 | 42 | 93.3 | 248 | 9 | US-10-530-253-3 | Sequence 3, Appli |
| 8 | 42 | 93.3 | 248 | 9 | US-10-530-253-5 | Sequence 5, Appli |
| 9 | 42 | 93.3 | 248 | 9 | US-10-530-253-7 | Sequence 7, Appli |
| 10 | 42 | 93.3 | 248 | 9 | US-10-530-253-9 | Sequence 9, Appli |
| 11 | 42 | 93.3 | 248 | 9 | US-10-530-253-11 | Sequence 11, Appl |
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| 16 | 38 | 84.4 | 149 | 9 | US-10-530-253-16 | Sequence 16, Appl |
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| 36 | 32 | 71.1 | 152 | 9 | US-10-530-253-39 | Sequence 39, Appl |
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| 48 | 31 | 68.9 | 252 | 9 | US-10-510-959-8 | Sequence 8, Appli |
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| 68 | 30 | 66.7 | 45 | 9 | US-10-957-887B-182 | Sequence 182, App |
| 69 | 30 | 66.7 | 45 | 9 | US-10-957-887B-190 | Sequence 190, App |
| 70 | 30 | 66.7 | 45 | 9 | US-10-957-887B-238 | Sequence 238, App |
| 71 | 30 | 66.7 | 45 | 9 | US-10-957-887B-242 | Sequence 242, App |
| 72 | 30 | 66.7 | 50 | 9 | US-10-957-887B-191 | Sequence 191, App |
| 73 | 30 | 66.7 | 196 | 11 | US-11-188-298-14820 | Sequence 14820, A |
| 74 | 30 | 66.7 | 262 | 11 | US-11-024-959-302 | Sequence 302, App |
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| 77 | 30 | 66.7 | 362 | 11 | US-11-152-569-16 | Sequence 16, Appl |
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| 106 | 28 | 62.2 | 142 | 11 | US-11-082-389-326 | Sequence 326, App |
| 107 | 28 | 62.2 | 159 | 11 | US-11-087-099-5905 | Sequence 5905, Ap |
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| 160 | 28 | 62.2 | 1186 | 11 | US-11-045-004-1595 | Sequence 1595, Ap |
| 161 | 28 | 62.2 | 2602 | 9 | US-10-937-658-5 | Sequence 5, Appli |
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| 195 | 27 | 60.0 | 266 | 9 | US-10-195-883-10 | Sequence 10, Appl |
| 196 | 27 | 60.0 | 266 | 9 | US-10-195-888-10 | Sequence 10, Appl |
| 197 | 27 | 60.0 | 266 | 9 | US-10-195-889-10 | Sequence 10, Appl |
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| 203 | 27 | 60.0 | 282 | 11 | US-11-096-568A-24637 | Sequence 24637, A |
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| 207 | 27 | 60.0 | 296 | 11 | US-11-078-280-2 | Sequence 2, Appli |
| 208 | 27 | 60.0 | 297 | 11 | US-11-098-686-10742 | Sequence 10742, A |
| 209 | 27 | 60.0 | 299 | 9 | US-10-194-487-164 | Sequence 164, App |
| 210 | 27 | 60.0 | 299 | 9 | US-10-195-883-164 | Sequence 164, App |
| 211 | 27 | 60.0 | 299 | 9 | US-10-195-888-164 | Sequence 164, App |
| 212 | 27 | 60.0 | 299 | 9 | US-10-195-889-164 | Sequence 164, App |
| 213 | 27 | 60.0 | 303 | 11 | US-11-096-568A-18848 | Sequence 18848, A |
| 214 | 27 | 60.0 | 304 | 11 | US-11-096-568A-16469 | Sequence 16469, A |
| 215 | 27 | 60.0 | 305 | 9 | US-10-506-454-51 | Sequence 51, Appl |
| 216 | 27 | 60.0 | 307 | 11 | US-11-096-568A-24745 | Sequence 24745, A |
| 217 | 27 | 60.0 | 311 | 11 | US-11-096-568A-24744 | Sequence 24744, A |
| 218 | 27 | 60.0 | 314 | 11 | US-11-045-004-1531 | Sequence 1531, Ap |
| 219 | 27 | 60.0 | 317 | 11 | US-11-096-568A-18847 | Sequence 18847, A |
| 220 | 27 | 60.0 | 319 | 11 | US-11-188-298-6083 | Sequence 6083, Ap |
| 221 | 27 | 60.0 | 324 | 11 | US-11-096-568A-16468 | Sequence 16468, A |
| 222 | 27 | 60.0 | 330 | 9 | US-10-485-517-415 | Sequence 415, App |
| 223 | 27 | 60.0 | 331 | 11 | US-11-072-512-3873 | Sequence 3873, Ap |
| 224 | 27 | 60.0 | 333 | 11 | US-11-096-568A-18846 | Sequence 18846, A |
| 225 | 27 | 60.0 | 355 | 9 | US-10-454-437-102 | Sequence 102, App |
| 226 | 27 | 60.0 | 360 | 11 | US-11-087-099-10572 | Sequence 10572, A |
| 227 | 27 | 60.0 | 360 | 11 | US-11-188-298-12709 | Sequence 12709, A |
| 228 | 27 | 60.0 | 362 | 11 | US-11-096-568A-20332 | Sequence 20332, A |
| 229 | 27 | 60.0 | 365 | 11 | US-11-087-099-4541 | Sequence 4541, Ap |
| 230 | 27 | 60.0 | 368 | 11 | US-11-096-568A-15720 | Sequence 15720, A |
| 231 | 27 | 60.0 | 374 | 11 | US-11-060-023-10 | Sequence 10, Appl |
| 232 | 27 | 60.0 | 374 | 11 | US-11-228-364-2 | Sequence 2, Appli |
| 233 | 27 | 60.0 | 374 | 11 | US-11-169-041-188 | Sequence 188, App |
| 234 | 27 | 60.0 | 374 | 11 | US-11-227-086-39 | Sequence 39, Appl |
| 235 | 27 | 60.0 | 387 | 11 | US-11-137-465-57 | Sequence 57, Appl |
| 236 | 27 | 60.0 | 388 | 11 | US-11-096-568A-9167 | Sequence 9167, Ap |
| 237 | 27 | 60.0 | 398 | 11 | US-11-096-568A-3066 | Sequence 3066, Ap |
| 238 | 27 | 60.0 | 401 | 11 | US-11-110-851-63 | Sequence 63, Appl |
| 239 | 27 | 60.0 | 405 | 11 | US-11-079-463-6878 | Sequence 6878, Ap |
| 240 | 27 | 60.0 | 408 | 11 | US-11-096-568A-9166 | Sequence 9166, Ap |

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| 242 | 27 | 60.0 | 412 | 9 | US-10-506-454-866 | Sequence 866, App |
| 243 | 27 | 60.0 | 415 | 11 | US-11-096-568A-19134 | Sequence 19134, A |
| 244 | 27 | 60.0 | 417 | 9 | US-10-467-657-6612 | Sequence 6612, Ap |
| 245 | 27 | 60.0 | 418 | 11 | US-11-096-568A-15719 | Sequence 15719, A |
| 246 | 27 | 60.0 | 422 | 9 | US-10-517-939-238 | Sequence 238, App |
| 247 | 27 | 60.0 | 423 | 9 | US-10-517-939-244 | Sequence 244, App |
| 248 | 27 | 60.0 | 427 | 11 | US-11-079-463-6899 | Sequence 6899, Ap |
| 249 | 27 | 60.0 | 434 | 11 | US-11-096-568A-9165 | Sequence 9165, Ap |
| 250 | 27 | 60.0 | 434 | 11 | US-11-096-568A-9168 | Sequence 9168, Ap |
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| 252 | 27 | 60.0 | 444 | 11 | US-11-096-568A-24743 | Sequence 24743, A |
| 253 | 27 | 60.0 | 446 | 11 | US-11-188-298-17336 | Sequence 17336, A |
| 254 | 27 | 60.0 | 449 | 11 | US-11-096-568A-19133 | Sequence 19133, A |
| 255 | 27 | 60.0 | 464 | 11 | US-11-096-568A-20331 | Sequence 20331, A |
| 256 | 27 | 60.0 | 464 | 11 | US-11-188-298-18325 | Sequence 18325, A |
| 257 | 27 | 60.0 | 466 | 11 | US-11-096-568A-3065 | Sequence 3065, Ap |
| 258 | 27 | 60.0 | 466 | 11 | US-11-096-568A-3067 | Sequence 3067, Ap |
| 259 | 27 | 60.0 | 472 | 11 | US-11-072-512-3882 | Sequence 3882, Ap |
| 260 | 27 | 60.0 | 478 | 9 | US-10-506-454-665 | Sequence 665, App |
| 261 | 27 | 60.0 | 479 | 11 | US-11-188-298-19826 | Sequence 19826, A |
| 262 | 27 | 60.0 | 499 | 9 | US-10-517-939-328 | Sequence 328, App |
| 263 | 27 | 60.0 | 499 | 11 | US-11-188-298-4559 | Sequence 4559, Ap |
| 264 | 27 | 60.0 | 500 | 11 | US-11-079-463-10077 | Sequence 10077, A |
| 265 | 27 | 60.0 | 501 | 11 | US-11-167-856-22 | Sequence 22, Appl |
| 266 | 27 | 60.0 | 501 | 11 | US-11-188-298-7039 | Sequence 7039, Ap |
| 267 | 27 | 60.0 | 513 | 9 | US-10-485-517-233 | Sequence 233, App |
| 268 | 27 | 60.0 | 526 | 11 | US-11-087-099-6670 | Sequence 6670, Ap |
| 269 | 27 | 60.0 | 528 | 11 | US-11-096-568A-3064 | Sequence 3064, Ap |
| 270 | 27 | 60.0 | 528 | 11 | US-11-188-298-3935 | Sequence 3935, Ap |
| 271 | 27 | 60.0 | 532 | 11 | US-11-045-004-1144 | Sequence 1144, Ap |
| 272 | 27 | 60.0 | 542 | 11 | US-11-079-463-8377 | Sequence 8377, Ap |
| 273 | 27 | 60.0 | 545 | 11 | US-11-096-568A-20330 | Sequence 20330, A |
| 274 | 27 | 60.0 | 550 | 11 | US-11-188-298-6080 | Sequence 6080, Ap |
| 275 | 27 | 60.0 | 550 | 11 | US-11-188-298-11802 | Sequence 11802, A |
| 276 | 27 | 60.0 | 550 | 11 | US-11-188-298-20581 | Sequence 20581, A |
| 277 | 27 | 60.0 | 550 | 11 | US-11-045-004-2603 | Sequence 2603, Ap |
| 278 | 27 | 60.0 | 550 | 11 | US-11-264-096-1284 | Sequence 1284, Ap |
| 279 | 27 | 60.0 | 553 | 11 | US-11-188-298-16884 | Sequence 16884, A |
| 280 | 27 | 60.0 | 554 | 11 | US-11-055-822-998 | Sequence 998, App |
| 281 | 27 | 60.0 | 555 | 9 | US-10-454-437-100 | Sequence 100, App |
| 282 | 27 | 60.0 | 567 | 11 | US-11-188-298-4779 | Sequence 4779, Ap |
| 283 | 27 | 60.0 | 573 | 9 | US-10-525-710-36 | Sequence 36, Appl |
| 284 | 27 | 60.0 | 580 | 11 | US-11-045-004-1751 | Sequence 1751, Ap |
| 285 | 27 | 60.0 | 585 | 11 | US-11-079-463-8980 | Sequence 8980, Ap |
| 286 | 27 | 60.0 | 592 | 11 | US-11-188-298-2830 | Sequence 2830, Ap |
| 287 | 27 | 60.0 | 603 | 9 | US-10-793-626-1684 | Sequence 1684, Ap |
| 288 | 27 | 60.0 | 616 | 11 | US-11-079-463-5274 | Sequence 5274, Ap |
| 289 | 27 | 60.0 | 623 | 11 | US-11-087-099-495 | Sequence 495, App |
| 290 | 27 | 60.0 | 638 | 11 | US-11-072-512-2904 | Sequence 2904, Ap |
| 291 | 27 | 60.0 | 658 | 11 | US-11-096-568A-2582 | Sequence 2582, Ap |
| 292 | 27 | 60.0 | 660 | 11 | US-11-096-568A-2581 | Sequence 2581, Ap |
| 293 | 27 | 60.0 | 680 | 11 | US-11-096-568A-2580 | Sequence 2580, Ap |
| 294 | 27 | 60.0 | 713 | 11 | US-11-188-298-8280 | Sequence 8280, Ap |
| 295 | 27 | 60.0 | 749 | 11 | US-11-087-099-6685 | Sequence 6685, Ap |
| 296 | 27 | 60.0 | 749 | 11 | US-11-188-298-17142 | Sequence 17142, A |
| 297 | 27 | 60.0 | 750 | 11 | US-11-087-099-5543 | Sequence 5543, Ap |
| 298 | 27 | 60.0 | 750 | 11 | US-11-188-298-16098 | Sequence 16098, A |
| 299 | 27 | 60.0 | 757 | 11 | US-11-188-298-10511 | Sequence 10511, A |
| 300 | 27 | 60.0 | 786 | 11 | US-11-087-099-1766 | Sequence 1766, Ap |
| 301 | 27 | 60.0 | 786 | 11 | US-11-087-099-2023 | Sequence 2023, Ap |
| 302 | 27 | 60.0 | 786 | 11 | US-11-188-298-1757 | Sequence 1757, Ap |
| 303 | 27 | 60.0 | 786 | 11 | US-11-188-298-2001 | Sequence 2001, Ap |
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| 305 | 27 | 60.0 | 787 | 11 | US-11-079-463-9004 | Sequence 9004, Ap |
| 306 | 27 | 60.0 | 787 | 11 | US-11-188-298-21993 | Sequence 21993, A |
| 307 | 27 | 60.0 | 819 | 11 | US-11-188-298-4437 | Sequence 4437, Ap |
| 308 | 27 | 60.0 | 819 | 11 | US-11-188-298-18664 | Sequence 18664, A |
| 309 | 27 | 60.0 | 821 | 11 | US-11-188-298-22480 | Sequence 22480, A |
| 310 | 27 | 60.0 | 834 | 11 | US-11-188-298-19327 | Sequence 19327, A |
| 311 | 27 | 60.0 | 842 | 11 | US-11-188-298-6227 | Sequence 6227, Ap |
| 312 | 27 | 60.0 | 842 | 11 | US-11-188-298-20378 | Sequence 20378, A |
| 313 | 27 | 60.0 | 860 | 11 | US-11-189-521-2 | Sequence 2, Appli |
| 314 | 27 | 60.0 | 878 | 11 | US-11-052-554A-23 | Sequence 23, Appl |
| 315 | 27 | 60.0 | 893 | 11 | US-11-098-686-10481 | Sequence 10481, A |
| 316 | 27 | 60.0 | 908 | 9 | US-10-517-939-360 | Sequence 360, App |
| 317 | 27 | 60.0 | 964 | 11 | US-11-137-465-58 | Sequence 58, Appl |
| 318 | 27 | 60.0 | 965 | 11 | US-11-113-424-2 | Sequence 2, Appli |
| 319 | 27 | 60.0 | 965 | 11 | US-11-147-047-51 | Sequence 51, Appl |
| 320 | 27 | 60.0 | 1102 | 11 | US-11-087-099-12330 | Sequence 12330, A |
| 321 | 27 | 60.0 | 1255 | 11 | US-11-079-463-8758 | Sequence 8758, Ap |
| 322 | 27 | 60.0 | 1280 | 11 | US-11-045-578-4 | Sequence 4, Appli |
| 323 | 27 | 60.0 | 1288 | 11 | US-11-052-554A-93 | Sequence 93, Appl |
| 324 | 27 | 60.0 | 1296 | 9 | US-10-615-668-3 | Sequence 3, Appli |
| 325 | 27 | 60.0 | 1590 | 9 | US-10-055-877-146 | Sequence 146, App |
| 326 | 27 | 60.0 | 1849 | 9 | US-10-506-454-1148 | Sequence 1148, Ap |
| 327 | 27 | 60.0 | 2890 | 11 | US-11-115-639-31 | Sequence 31, Appl |
| 328 | 27 | 60.0 | 2890 | 11 | US-11-115-639-32 | Sequence 32, Appl |
| 329 | 27 | 60.0 | 2890 | 11 | US-11-115-639-33 | Sequence 33, Appl |
| 330 | 27 | 60.0 | 2897 | 9 | US-10-499-715-2 | Sequence 2, Appli |
| 331 | 27 | 60.0 | 3063 | 11 | US-11-186-284-26 | Sequence 26, Appl |
| 332 | 27 | 60.0 | 4386 | 11 | US-11-004-399-714 | Sequence 714, App |
| 333 | 26.5 | 58.9 | 583 | 9 | US-10-644-807-437 | Sequence 437, App |
| 334 | 26 | 57.8 | 10 | 9 | US-10-530-061-542 | Sequence 542, App |
| 335 | 26 | 57.8 | 29 | 11 | US-11-008-570-76 | Sequence 76, Appl |
| 336 | 26 | 57.8 | 40 | 9 | US-10-957-887B-285 | Sequence 285, App |
| 337 | 26 | 57.8 | 44 | 9 | US-10-957-887B-197 | Sequence 197, App |
| 338 | 26 | 57.8 | 45 | 9 | US-10-957-887B-156 | Sequence 156, App |
| 339 | 26 | 57.8 | 45 | 9 | US-10-957-887B-178 | Sequence 178, App |
| 340 | 26 | 57.8 | 78 | 11 | US-11-264-096-1336 | Sequence 1336, Ap |
| 341 | 26 | 57.8 | 78 | 11 | US-11-264-096-1337 | Sequence 1337, Ap |
| 342 | 26 | 57.8 | 100 | 9 | US-10-746-909-13 | Sequence 13, Appl |
| 343 | 26 | 57.8 | 113 | 9 | US-10-746-909-5 | Sequence 5, Appli |
| 344 | 26 | 57.8 | 145 | 9 | US-10-793-626-316 | Sequence 316, App |
| 345 | 26 | 57.8 | 192 | 11 | US-11-188-298-5032 | Sequence 5032, Ap |
| 346 | 26 | 57.8 | 205 | 11 | US-11-045-004-398 | Sequence 398, App |
| 347 | 26 | 57.8 | 208 | 11 | US-11-079-463-7850 | Sequence 7850, Ap |
| 348 | 26 | 57.8 | 213 | 11 | US-11-040-472-10 | Sequence 10, Appl |
| 349 | 26 | 57.8 | 227 | 9 | US-10-793-626-2642 | Sequence 2642, Ap |
| 350 | 26 | 57.8 | 237 | 11 | US-11-188-298-21336 | Sequence 21336, A |
| 351 | 26 | 57.8 | 246 | 11 | US-11-055-822-382 | Sequence 382, App |
| 352 | 26 | 57.8 | 247 | 11 | US-11-188-298-461 | Sequence 461, App |
| 353 | 26 | 57.8 | 250 | 11 | US-11-172-740-2324 | Sequence 2324, Ap |
| 354 | 26 | 57.8 | 251 | 11 | US-11-054-515-128 | Sequence 128, App |
| 355 | 26 | 57.8 | 251 | 11 | US-11-266-444-128 | Sequence 128, App |
| 356 | 26 | 57.8 | 267 | 11 | US-11-172-740-2325 | Sequence 2325, Ap |
| 357 | 26 | 57.8 | 275 | 11 | US-11-096-568A-21684 | Sequence 21684, A |
| 358 | 26 | 57.8 | 290 | 9 | US-10-506-454-1342 | Sequence 1342, Ap |
| 359 | 26 | 57.8 | 293 | 11 | US-11-072-512-2381 | Sequence 2381, Ap |
| 360 | 26 | 57.8 | 295 | 11 | US-11-096-568A-20099 | Sequence 20099, A |
| 361 | 26 | 57.8 | 296 | 11 | US-11-045-004-251 | Sequence 251, App |
| 362 | 26 | 57.8 | 301 | 9 | US-10-979-871-2 | Sequence 2, Appli |
| 363 | 26 | 57.8 | 304 | 11 | US-11-096-568A-6455 | Sequence 6455, Ap |
| 364 | 26 | 57.8 | 306 | 11 | US-11-096-568A-6454 | Sequence 6454, Ap |
| 365 | 26 | 57.8 | 307 | 11 | US-11-079-463-8827 | Sequence 8827, Ap |
| 366 | 26 | 57.8 | 310 | 11 | US-11-055-822-140 | Sequence 140, App |
| 367 | 26 | 57.8 | 310 | 11 | US-11-156-300-71 | Sequence 71, Appl |
| 368 | 26 | 57.8 | 311 | 11 | US-11-156-300-70 | Sequence 70, Appl |
| 369 | 26 | 57.8 | 314 | 11 | US-11-098-686-10957 | Sequence 10957, A |
| 370 | 26 | 57.8 | 317 | 11 | US-11-188-298-20023 | Sequence 20023, A |
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| 372 | 26 | 57.8 | 321 | 11 | US-11-045-004-1343 | Sequence 1343, Ap |
| 373 | 26 | 57.8 | 322 | 9 | US-10-506-454-1254 | Sequence 1254, Ap |
| 374 | 26 | 57.8 | 322 | 11 | US-11-096-568A-6453 | Sequence 6453, Ap |
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| 379 | 26 | 57.8 | 328 | 11 | US-11-188-298-15447 | Sequence 15447, A |
| 380 | 26 | 57.8 | 330 | 11 | US-11-098-686-10220 | Sequence 10220, A |
| 381 | 26 | 57.8 | 330 | 11 | US-11-098-686-10903 | Sequence 10903, A |
| 382 | 26 | 57.8 | 331 | 9 | US-10-330-773-421 | Sequence 421, App |
| 383 | 26 | 57.8 | 334 | 11 | US-11-096-568A-20098 | Sequence 20098, A |
| 384 | 26 | 57.8 | 337 | 11 | US-11-188-298-12834 | Sequence 12834, A |
| 385 | 26 | 57.8 | 337 | 11 | US-11-188-298-17004 | Sequence 17004, A |
| 386 | 26 | 57.8 | 338 | 9 | US-10-724-598-38 | Sequence 38, Appl |

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| 387 | 26 | 57.8 | 339 | 11 | US-11-174-816-40 | Sequence 40, Appl |
| 388 | 26 | 57.8 | 339 | 11 | US-11-174-816-55 | Sequence 55, Appl |
| 389 | 26 | 57.8 | 339 | 11 | US-11-174-819-5 | Sequence 5, Appli |
| 390 | 26 | 57.8 | 339 | 11 | US-11-174-819-74 | Sequence 74, Appl |
| 391 | 26 | 57.8 | 342 | 9 | US-10-506-454-1297 | Sequence 1297, Ap |
| 392 | 26 | 57.8 | 342 | 11 | US-11-087-099-2825 | Sequence 2825, Ap |
| 393 | 26 | 57.8 | 342 | 11 | US-11-096-568A-33621 | Sequence 33621, A |
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| 395 | 26 | 57.8 | 348 | 11 | US-11-188-298-12955 | Sequence 12955, A |
| 396 | 26 | 57.8 | 348 | 11 | US-11-188-298-17868 | Sequence 17868, A |
| 397 | 26 | 57.8 | 348 | 11 | US-11-188-298-20051 | Sequence 20051, A |
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| 402 | 26 | 57.8 | 353 | 11 | US-11-147-606-2 | Sequence 2, Appli |
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| 407 | 26 | 57.8 | 357 | 11 | US-11-188-298-19786 | Sequence 19786, A |
| 408 | 26 | 57.8 | 357 | 11 | US-11-188-298-20405 | Sequence 20405, A |
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| 411 | 26 | 57.8 | 358 | 11 | US-11-188-298-6635 | Sequence 6635, Ap |
| 412 | 26 | 57.8 | 358 | 11 | US-11-188-298-9724 | Sequence 9724, Ap |
| 413 | 26 | 57.8 | 358 | 11 | US-11-188-298-11178 | Sequence 11178, A |
| 414 | 26 | 57.8 | 358 | 11 | US-11-188-298-13757 | Sequence 13757, A |
| 415 | 26 | 57.8 | 358 | 11 | US-11-188-298-15700 | Sequence 15700, A |
| 416 | 26 | 57.8 | 359 | 11 | US-11-096-568A-10909 | Sequence 10909, A |
| 417 | 26 | 57.8 | 359 | 11 | US-11-188-298-11038 | Sequence 11038, A |
| 418 | 26 | 57.8 | 362 | 11 | US-11-087-099-9198 | Sequence 9198, Ap |
| 419 | 26 | 57.8 | 365 | 11 | US-11-096-568A-20097 | Sequence 20097, A |
| 420 | 26 | 57.8 | 365 | 11 | US-11-188-298-2929 | Sequence 2929, Ap |
| 421 | 26 | 57.8 | 367 | 9 | US-10-821-234-985 | Sequence 985, App |
| 422 | 26 | 57.8 | 370 | 11 | US-11-188-298-3719 | Sequence 3719, Ap |
| 423 | 26 | 57.8 | 371 | 11 | US-11-045-004-2409 | Sequence 2409, Ap |
| 424 | 26 | 57.8 | 379 | 11 | US-11-188-298-2442 | Sequence 2442, Ap |
| 425 | 26 | 57.8 | 379 | 11 | US-11-188-298-20791 | Sequence 20791, A |
| 426 | 26 | 57.8 | 388 | 11 | US-11-096-568A-21682 | Sequence 21682, A |
| 427 | 26 | 57.8 | 390 | 11 | US-11-087-099-10001 | Sequence 10001, A |
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| 431 | 26 | 57.8 | 412 | 9 | US-10-979-821-8 | Sequence 8, Appli |
| 432 | 26 | 57.8 | 412 | 11 | US-11-114-922-8 | Sequence 8, Appli |
| 433 | 26 | 57.8 | 416 | 11 | US-11-188-298-349 | Sequence 349, App |
| 434 | 26 | 57.8 | 419 | 9 | US-10-957-746-6 | Sequence 6, Appli |
| 435 | 26 | 57.8 | 419 | 10 | US-11-302-678-65 | Sequence 65, Appl |
| 436 | 26 | 57.8 | 423 | 11 | US-11-188-298-5317 | Sequence 5317, Ap |
| 437 | 26 | 57.8 | 423 | 11 | US-11-188-298-7960 | Sequence 7960, Ap |
| 438 | 26 | 57.8 | 427 | 9 | US-10-525-710-38 | Sequence 38, Appl |
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| 440 | 26 | 57.8 | 428 | 11 | US-11-098-686-10097 | Sequence 10097, A |
| 441 | 26 | 57.8 | 429 | 11 | US-11-087-099-6859 | Sequence 6859, Ap |
| 442 | 26 | 57.8 | 431 | 9 | US-10-485-517-182 | Sequence 182, App |
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| 444 | 26 | 57.8 | 436 | 11 | US-11-096-568A-10907 | Sequence 10907, A |
| 445 | 26 | 57.8 | 436 | 11 | US-11-096-568A-21599 | Sequence 21599, A |
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| 447 | 26 | 57.8 | 437 | 11 | US-11-188-298-19155 | Sequence 19155, A |
| 448 | 26 | 57.8 | 441 | 9 | US-10-055-877-4 | Sequence 4, Appli |
| 449 | 26 | 57.8 | 443 | 9 | US-10-793-626-1200 | Sequence 1200, Ap |
| 450 | 26 | 57.8 | 446 | 11 | US-11-146-428-47 | Sequence 47, Appl |
| 451 | 26 | 57.8 | 453 | 11 | US-11-082-389-198 | Sequence 198, App |
| 452 | 26 | 57.8 | 453 | 11 | US-11-087-099-6617 | Sequence 6617, Ap |
| 453 | 26 | 57.8 | 453 | 11 | US-11-188-298-17073 | Sequence 17073, A |
| 454 | 26 | 57.8 | 459 | 11 | US-11-045-004-2799 | Sequence 2799, Ap |
| 455 | 26 | 57.8 | 467 | 11 | US-11-096-568A-21598 | Sequence 21598, A |
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| 457 | 26 | 57.8 | 472 | 9 | US-10-467-657-2268 | Sequence 2268, Ap |
| 458 | 26 | 57.8 | 472 | 10 | US-11-106-014-8 | Sequence 8, Appli |
| 459 | 26 | 57.8 | 472 | 11 | US-11-073-457-8 | Sequence 8, Appli |
| 460 | 26 | 57.8 | 472 | 11 | US-11-073-460-8 | Sequence 8, Appli |
| 461 | 26 | 57.8 | 474 | 11 | US-11-188-298-15570 | Sequence 15570, A |
| 462 | 26 | 57.8 | 475 | 9 | US-10-194-487-260 | Sequence 260, App |
| 463 | 26 | 57.8 | 475 | 9 | US-10-195-883-260 | Sequence 260, App |
| 464 | 26 | 57.8 | 475 | 9 | US-10-195-888-260 | Sequence 260, App |
| 465 | 26 | 57.8 | 475 | 9 | US-10-195-889-260 | Sequence 260, App |
| 466 | 26 | 57.8 | 481 | 11 | US-11-188-298-20529 | Sequence 20529, A |
| 467 | 26 | 57.8 | 487 | 11 | US-11-087-099-5032 | Sequence 5032, Ap |
| 468 | 26 | 57.8 | 487 | 11 | US-11-188-298-4636 | Sequence 4636, Ap |
| 469 | 26 | 57.8 | 488 | 11 | US-11-045-004-1625 | Sequence 1625, Ap |
| 470 | 26 | 57.8 | 490 | 11 | US-11-188-298-17713 | Sequence 17713, A |
| 471 | 26 | 57.8 | 491 | 9 | US-10-763-712A-4 | Sequence 4, Appli |
| 472 | 26 | 57.8 | 491 | 11 | US-11-087-099-11329 | Sequence 11329, A |
| 473 | 26 | 57.8 | 496 | 11 | US-11-188-298-14388 | Sequence 14388, A |
| 474 | 26 | 57.8 | 497 | 11 | US-11-188-298-6223 | Sequence 6223, Ap |
| 475 | 26 | 57.8 | 506 | 11 | US-11-188-298-8068 | Sequence 8068, Ap |
| 476 | 26 | 57.8 | 508 | 11 | US-11-096-568A-22465 | Sequence 22465, A |
| 477 | 26 | 57.8 | 509 | 11 | US-11-188-298-3151 | Sequence 3151, Ap |
| 478 | 26 | 57.8 | 512 | 11 | US-11-096-568A-31316 | Sequence 31316, A |
| 479 | 26 | 57.8 | 519 | 11 | US-11-188-298-408 | Sequence 408, App |
| 480 | 26 | 57.8 | 520 | 11 | US-11-096-568A-31315 | Sequence 31315, A |
| 481 | 26 | 57.8 | 526 | 11 | US-11-188-298-5033 | Sequence 5033, Ap |
| 482 | 26 | 57.8 | 526 | 11 | US-11-188-298-20205 | Sequence 20205, A |
| 483 | 26 | 57.8 | 527 | 11 | US-11-188-298-6052 | Sequence 6052, Ap |
| 484 | 26 | 57.8 | 528 | 9 | US-10-493-909-83 | Sequence 83, Appl |
| 485 | 26 | 57.8 | 530 | 9 | US-10-493-909-85 | Sequence 85, Appl |
| 486 | 26 | 57.8 | 535 | 9 | US-10-493-909-84 | Sequence 84, Appl |
| 487 | 26 | 57.8 | 535 | 9 | US-10-507-755-5 | Sequence 5, Appli |
| 488 | 26 | 57.8 | 538 | 11 | US-11-188-298-18680 | Sequence 18680, A |
| 489 | 26 | 57.8 | 539 | 11 | US-11-096-568A-22464 | Sequence 22464, A |
| 490 | 26 | 57.8 | 539 | 11 | US-11-188-298-1395 | Sequence 1395, Ap |
| 491 | 26 | 57.8 | 539 | 11 | US-11-188-298-8468 | Sequence 8468, Ap |
| 492 | 26 | 57.8 | 539 | 11 | US-11-188-298-11452 | Sequence 11452, A |
| 493 | 26 | 57.8 | 539 | 11 | US-11-188-298-14092 | Sequence 14092, A |
| 494 | 26 | 57.8 | 539 | 11 | US-11-188-298-20081 | Sequence 20081, A |
| 495 | 26 | 57.8 | 541 | 11 | US-11-188-298-2545 | Sequence 2545, Ap |
| 496 | 26 | 57.8 | 541 | 11 | US-11-188-298-5545 | Sequence 5545, Ap |
| 497 | 26 | 57.8 | 541 | 11 | US-11-188-298-13712 | Sequence 13712, A |
| 498 | 26 | 57.8 | 541 | 11 | US-11-188-298-17156 | Sequence 17156, A |
| 499 | 26 | 57.8 | 542 | 11 | US-11-079-463-6313 | Sequence 6313, Ap |
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| 501 | 26 | 57.8 | 542 | 11 | US-11-188-298-17077 | Sequence 17077, A |
| 502 | 26 | 57.8 | 543 | 11 | US-11-188-298-14697 | Sequence 14697, A |
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| 504 | 26 | 57.8 | 549 | 11 | US-11-201-916-13 | Sequence 13, Appl |
| 505 | 26 | 57.8 | 566 | 11 | US-11-188-298-13476 | Sequence 13476, A |
| 506 | 26 | 57.8 | 567 | 11 | US-11-079-463-9051 | Sequence 9051, Ap |
| 507 | 26 | 57.8 | 569 | 11 | US-11-188-298-17945 | Sequence 17945, A |
| 508 | 26 | 57.8 | 570 | 11 | US-11-072-512-2718 | Sequence 2718, Ap |
| 509 | 26 | 57.8 | 571 | 9 | US-10-793-626-118 | Sequence 118, App |
| 510 | 26 | 57.8 | 574 | 11 | US-11-087-099-8948 | Sequence 8948, Ap |
| 511 | 26 | 57.8 | 580 | 11 | US-11-188-298-14133 | Sequence 14133, A |
| 512 | 26 | 57.8 | 582 | 11 | US-11-079-463-8472 | Sequence 8472, Ap |
| 513 | 26 | 57.8 | 583 | 11 | US-11-188-298-9008 | Sequence 9008, Ap |
| 514 | 26 | 57.8 | 593 | 9 | US-10-055-877-132 | Sequence 132, App |
| 515 | 26 | 57.8 | 601 | 11 | US-11-188-298-16119 | Sequence 16119, A |
| 516 | 26 | 57.8 | 615 | 11 | US-11-087-099-9420 | Sequence 9420, Ap |
| 517 | 26 | 57.8 | 615 | 11 | US-11-188-298-19754 | Sequence 19754, A |
| 518 | 26 | 57.8 | 627 | 11 | US-11-079-463-7301 | Sequence 7301, Ap |
| 519 | 26 | 57.8 | 629 | 9 | US-10-873-528-125 | Sequence 125, App |
| 520 | 26 | 57.8 | 637 | 9 | US-10-055-877-131 | Sequence 131, App |
| 521 | 26 | 57.8 | 644 | 11 | US-11-045-004-125 | Sequence 125, App |
| 522 | 26 | 57.8 | 650 | 9 | US-10-467-657-1948 | Sequence 1948, Ap |
| 523 | 26 | 57.8 | 658 | 11 | US-11-079-463-6947 | Sequence 6947, Ap |
| 524 | 26 | 57.8 | 670 | 9 | US-10-821-234-879 | Sequence 879, App |
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| 526 | 26 | 57.8 | 691 | 9 | US-10-870-003-2 | Sequence 2, Appli |
| 527 | 26 | 57.8 | 698 | 11 | US-11-096-568A-24181 | Sequence 24181, A |
| 528 | 26 | 57.8 | 700 | 11 | US-11-096-568A-24180 | Sequence 24180, A |
| 529 | 26 | 57.8 | 724 | 11 | US-11-126-313-28 | Sequence 28, Appl |
| 530 | 26 | 57.8 | 726 | 11 | US-11-188-298-15087 | Sequence 15087, A |
| 531 | 26 | 57.8 | 729 | 9 | US-10-523-328-13 | Sequence 13, Appl |
| 532 | 26 | 57.8 | 729 | 11 | US-11-099-691-3 | Sequence 3, Appli |

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| 538 | 26 | 57.8 | 762 | 11 | US-11-188-298-16968 | Sequence 16968, A |
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| 545 | 26 | 57.8 | 787 | 11 | US-11-087-099-10359 | Sequence 10359, A |
| 546 | 26 | 57.8 | 787 | 11 | US-11-087-099-10681 | Sequence 10681, A |
| 547 | 26 | 57.8 | 787 | 11 | US-11-087-099-11835 | Sequence 11835, A |
| 548 | 26 | 57.8 | 787 | 11 | US-11-188-298-9550 | Sequence 9550, Ap |
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| 550 | 26 | 57.8 | 787 | 11 | US-11-188-298-22001 | Sequence 22001, A |
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| 552 | 26 | 57.8 | 788 | 11 | US-11-087-099-7520 | Sequence 7520, Ap |
| 553 | 26 | 57.8 | 788 | 11 | US-11-188-298-6897 | Sequence 6897, Ap |
| 554 | 26 | 57.8 | 788 | 11 | US-11-188-298-17710 | Sequence 17710, A |
| 555 | 26 | 57.8 | 811 | 11 | US-11-188-298-2220 | Sequence 2220, Ap |
| 556 | 26 | 57.8 | 833 | 11 | US-11-079-463-7143 | Sequence 7143, Ap |
| 557 | 26 | 57.8 | 834 | 9 | US-10-131-826A-148 | Sequence 148, App |
| 558 | 26 | 57.8 | 834 | 9 | US-10-973-115B-148 | Sequence 148, App |
| 559 | 26 | 57.8 | 834 | 9 | US-10-137-873A-148 | Sequence 148, App |
| 560 | 26 | 57.8 | 834 | 9 | US-10-152-370-148 | Sequence 148, App |
| 561 | 26 | 57.8 | 834 | 11 | US-11-072-512-2323 | Sequence 2323, Ap |
| 562 | 26 | 57.8 | 834 | 11 | US-11-290-153-148 | Sequence 148, App |
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| 572 | 26 | 57.8 | 978 | 11 | US-11-078-915-15 | Sequence 15, Appl |
| 573 | 26 | 57.8 | 997 | 11 | US-11-078-915-14 | Sequence 14, Appl |
| 574 | 26 | 57.8 | 997 | 11 | US-11-078-915-77 | Sequence 77, Appl |
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| 577 | 26 | 57.8 | 998 | 11 | US-11-078-915-9 | Sequence 9, Appli |
| 578 | 26 | 57.8 | 998 | 11 | US-11-078-915-22 | Sequence 22, Appl |
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| 581 | 26 | 57.8 | 1021 | 11 | US-11-078-915-3 | Sequence 3, Appli |
| 582 | 26 | 57.8 | 1021 | 11 | US-11-078-915-4 | Sequence 4, Appli |
| 583 | 26 | 57.8 | 1021 | 11 | US-11-078-915-5 | Sequence 5, Appli |
| 584 | 26 | 57.8 | 1021 | 11 | US-11-078-915-6 | Sequence 6, Appli |
| 585 | 26 | 57.8 | 1021 | 11 | US-11-078-915-7 | Sequence 7, Appli |
| 586 | 26 | 57.8 | 1021 | 11 | US-11-078-915-23 | Sequence 23, Appl |
| 587 | 26 | 57.8 | 1023 | 11 | US-11-096-568A-30509 | Sequence 30509, A |
| 588 | 26 | 57.8 | 1032 | 9 | US-10-392-234A-67 | Sequence 67, Appl |
| 589 | 26 | 57.8 | 1049 | 8 | US-10-505-928-759 | Sequence 759, App |
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| 591 | 26 | 57.8 | 1158 | 9 | US-10-501-035-366 | Sequence 366, App |
| 592 | 26 | 57.8 | 1158 | 11 | US-11-075-646-6 | Sequence 6, Appli |
| 593 | 26 | 57.8 | 1161 | 11 | US-11-075-646-8 | Sequence 8, Appli |
| 594 | 26 | 57.8 | 1207 | 11 | US-11-124-368A-263 | Sequence 263, App |
| 595 | 26 | 57.8 | 1213 | 11 | US-11-074-176-256 | Sequence 256, App |
| 596 | 26 | 57.8 | 1219 | 11 | US-11-032-236-4 | Sequence 4, Appli |
| 597 | 26 | 57.8 | 1813 | 9 | US-10-495-083-10 | Sequence 10, Appl |
| 598 | 26 | 57.8 | 1881 | 11 | US-11-040-472-8 | Sequence 8, Appli |
| 599 | 26 | 57.8 | 3194 | 11 | US-11-052-554A-90 | Sequence 90, Appl |
| 600 | 25.5 | 56.7 | 132 | 11 | US-11-079-463-7668 | Sequence 7668, Ap |
| 601 | 25.5 | 56.7 | 463 | 11 | US-11-072-512-2880 | Sequence 2880, Ap |
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| 603 | 25 | 55.6 | 9 | 9 | US-10-530-061-844 | Sequence 844, App |
| 604 | 25 | 55.6 | 10 | 9 | US-10-530-061-591 | Sequence 591, App |
| 605 | 25 | 55.6 | 11 | 9 | US-10-649-229-38 | Sequence 38, Appl |
| 606 | 25 | 55.6 | 42 | 9 | US-10-957-887B-143 | Sequence 143, App |
| 607 | 25 | 55.6 | 44 | 9 | US-10-957-887B-209 | Sequence 209, App |
| 608 | 25 | 55.6 | 44 | 9 | US-10-957-887B-251 | Sequence 251, App |
| 609 | 25 | 55.6 | 45 | 9 | US-10-957-887B-25 | Sequence 25, Appl |
| 610 | 25 | 55.6 | 49 | 11 | US-11-096-568A-846 | Sequence 846, App |
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| 612 | 25 | 55.6 | 69 | 11 | US-11-129-741-624 | Sequence 624, App |
| 613 | 25 | 55.6 | 73 | 11 | US-11-079-463-6705 | Sequence 6705, Ap |
| 614 | 25 | 55.6 | 102 | 11 | US-11-188-298-13839 | Sequence 13839, A |
| 615 | 25 | 55.6 | 106 | 11 | US-11-096-568A-16182 | Sequence 16182, A |
| 616 | 25 | 55.6 | 108 | 11 | US-11-049-536-420 | Sequence 420, App |
| 617 | 25 | 55.6 | 108 | 11 | US-11-072-512-2110 | Sequence 2110, Ap |
| 618 | 25 | 55.6 | 108 | 11 | US-11-199-739-420 | Sequence 420, App |
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| 620 | 25 | 55.6 | 113 | 11 | US-11-096-568A-2476 | Sequence 2476, Ap |
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| 626 | 25 | 55.6 | 132 | 11 | US-11-188-298-10476 | Sequence 10476, A |
| 627 | 25 | 55.6 | 133 | 11 | US-11-172-740-2316 | Sequence 2316, Ap |
| 628 | 25 | 55.6 | 142 | 9 | US-10-793-626-2978 | Sequence 2978, Ap |
| 629 | 25 | 55.6 | 145 | 11 | US-11-188-298-1535 | Sequence 1535, Ap |
| 630 | 25 | 55.6 | 148 | 11 | US-11-096-568A-1731 | Sequence 1731, Ap |
| 631 | 25 | 55.6 | 149 | 11 | US-11-096-568A-24100 | Sequence 24100, A |
| 632 | 25 | 55.6 | 150 | 11 | US-11-096-568A-16181 | Sequence 16181, A |
| 633 | 25 | 55.6 | 150 | 11 | US-11-096-568A-23851 | Sequence 23851, A |
| 634 | 25 | 55.6 | 159 | 11 | US-11-055-822-700 | Sequence 700, App |
| 635 | 25 | 55.6 | 159 | 11 | US-11-055-822-786 | Sequence 786, App |
| 636 | 25 | 55.6 | 159 | 11 | US-11-072-512-3218 | Sequence 3218, Ap |
| 637 | 25 | 55.6 | 159 | 11 | US-11-051-724-58 | Sequence 58, Appl |
| 638 | 25 | 55.6 | 159 | 11 | US-11-045-004-726 | Sequence 726, App |
| 639 | 25 | 55.6 | 159 | 11 | US-11-045-004-2792 | Sequence 2792, Ap |
| 640 | 25 | 55.6 | 160 | 11 | US-11-044-285-4 | Sequence 4, Appli |
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| 642 | 25 | 55.6 | 160 | 11 | US-11-143-947A-1 | Sequence 1, Appli |
| 643 | 25 | 55.6 | 160 | 11 | US-11-143-966A-1 | Sequence 1, Appli |
| 644 | 25 | 55.6 | 163 | 11 | US-11-188-298-1763 | Sequence 1763, Ap |
| 645 | 25 | 55.6 | 168 | 9 | US-10-467-657-1066 | Sequence 1066, Ap |
| 646 | 25 | 55.6 | 172 | 11 | US-11-044-285-2 | Sequence 2, Appli |
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| 651 | 25 | 55.6 | 175 | 11 | US-11-096-568A-6628 | Sequence 6628, Ap |
| 652 | 25 | 55.6 | 176 | 11 | US-11-087-099-4790 | Sequence 4790, Ap |
| 653 | 25 | 55.6 | 177 | 9 | US-10-506-454-504 | Sequence 504, App |
| 654 | 25 | 55.6 | 177 | 11 | US-11-096-568A-8390 | Sequence 8390, Ap |
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| 656 | 25 | 55.6 | 180 | 11 | US-11-143-943A-2 | Sequence 2, Appli |
| 657 | 25 | 55.6 | 180 | 11 | US-11-143-947A-2 | Sequence 2, Appli |
| 658 | 25 | 55.6 | 180 | 11 | US-11-143-966A-2 | Sequence 2, Appli |
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| 660 | 25 | 55.6 | 184 | 11 | US-11-096-568A-8389 | Sequence 8389, Ap |
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| 662 | 25 | 55.6 | 190 | 9 | US-10-793-626-2230 | Sequence 2230, Ap |
| 663 | 25 | 55.6 | 198 | 11 | US-11-186-284-101 | Sequence 101, App |
| 664 | 25 | 55.6 | 198 | 11 | US-11-051-724-54 | Sequence 54, Appl |
| 665 | 25 | 55.6 | 198 | 11 | US-11-051-724-56 | Sequence 56, Appl |
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| 667 | 25 | 55.6 | 201 | 11 | US-11-079-463-6174 | Sequence 6174, Ap |
| 668 | 25 | 55.6 | 202 | 11 | US-11-096-568A-23850 | Sequence 23850, A |
| 669 | 25 | 55.6 | 202 | 11 | US-11-188-298-1492 | Sequence 1492, Ap |
| 670 | 25 | 55.6 | 202 | 11 | US-11-188-298-19374 | Sequence 19374, A |
| 671 | 25 | 55.6 | 203 | 9 | US-10-763-712A-72 | Sequence 72, Appl |
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| 682 | 25 | 55.6 | 224 | 11 | US-11-079-463-9139 | Sequence 9139, Ap |
| 683 | 25 | 55.6 | 227 | 11 | US-11-096-568A-193 | Sequence 193, App |
| 684 | 25 | 55.6 | 227 | 11 | US-11-096-568A-194 | Sequence 194, App |
| 685 | 25 | 55.6 | 227 | 11 | US-11-096-568A-24098 | Sequence 24098, A |
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| 687 | 25 | 55.6 | 227 | 11 | US-11-096-568A-27130 | Sequence 27130, A |
| 688 | 25 | 55.6 | 230 | 11 | US-11-079-463-9486 | Sequence 9486, Ap |
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| 690 | 25 | 55.6 | 232 | 11 | US-11-143-947A-5 | Sequence 5, Appli |
| 691 | 25 | 55.6 | 232 | 11 | US-11-143-966A-5 | Sequence 5, Appli |
| 692 | 25 | 55.6 | 233 | 11 | US-11-153-071-16 | Sequence 16, Appl |
| 693 | 25 | 55.6 | 234 | 11 | US-11-096-568A-4571 | Sequence 4571, Ap |
| 694 | 25 | 55.6 | 236 | 11 | US-11-096-568A-19053 | Sequence 19053, A |
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| 697 | 25 | 55.6 | 236 | 11 | US-11-096-568A-31613 | Sequence 31613, A |
| 698 | 25 | 55.6 | 237 | 11 | US-11-098-686-11055 | Sequence 11055, A |
| 699 | 25 | 55.6 | 238 | 11 | US-11-096-568A-19545 | Sequence 19545, A |
| 700 | 25 | 55.6 | 238 | 11 | US-11-096-568A-23858 | Sequence 23858, A |
| 701 | 25 | 55.6 | 240 | 11 | US-11-067-425A-72 | Sequence 72, Appl |
| 702 | 25 | 55.6 | 240 | 11 | US-11-096-568A-23849 | Sequence 23849, A |
| 703 | 25 | 55.6 | 241 | 11 | US-11-096-568A-5617 | Sequence 5617, Ap |
| 704 | 25 | 55.6 | 242 | 11 | US-11-096-568A-11998 | Sequence 11998, A |
| 705 | 25 | 55.6 | 243 | 9 | US-10-455-772-498 | Sequence 498, App |
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| 707 | 25 | 55.6 | 245 | 11 | US-11-087-099-1546 | Sequence 1546, Ap |
| 708 | 25 | 55.6 | 247 | 11 | US-11-096-568A-22372 | Sequence 22372, A |
| 709 | 25 | 55.6 | 248 | 11 | US-11-096-568A-4570 | Sequence 4570, Ap |
| 710 | 25 | 55.6 | 249 | 11 | US-11-096-568A-24481 | Sequence 24481, A |
| 711 | 25 | 55.6 | 250 | 9 | US-10-330-773-233 | Sequence 233, App |
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| 732 | 25 | 55.6 | 268 | 11 | US-11-096-568A-31611 | Sequence 31611, A |
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| 734 | 25 | 55.6 | 268 | 11 | US-11-172-740-2318 | Sequence 2318, Ap |
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| 741 | 25 | 55.6 | 280 | 11 | US-11-096-568A-29437 | Sequence 29437, A |
| 742 | 25 | 55.6 | 281 | 11 | US-11-188-298-5235 | Sequence 5235, Ap |
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| 744 | 25 | 55.6 | 282 | 11 | US-11-096-568A-19544 | Sequence 19544, A |
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| 754 | 25 | 55.6 | 303 | 11 | US-11-188-298-6677 | Sequence 6677, Ap |
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| 767 | 25 | 55.6 | 323 | 11 | US-11-096-568A-6626 | Sequence 6626, Ap |
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| 772 | 25 | 55.6 | 339 | 11 | US-11-188-298-20887 | Sequence 20887, A |
| 773 | 25 | 55.6 | 340 | 11 | US-11-096-568A-19051 | Sequence 19051, A |
| 774 | 25 | 55.6 | 340 | 11 | US-11-096-568A-19555 | Sequence 19555, A |
| 775 | 25 | 55.6 | 342 | 9 | US-10-714-887-10 | Sequence 10, Appl |
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| 777 | 25 | 55.6 | 344 | 11 | US-11-087-099-7157 | Sequence 7157, Ap |
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| 781 | 25 | 55.6 | 349 | 9 | US-10-055-877-170 | Sequence 170, App |
| 782 | 25 | 55.6 | 349 | 9 | US-10-055-877-171 | Sequence 171, App |
| 783 | 25 | 55.6 | 349 | 11 | US-11-188-298-6860 | Sequence 6860, Ap |
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| 787 | 25 | 55.6 | 353 | 11 | US-11-096-568A-31101 | Sequence 31101, A |
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| 789 | 25 | 55.6 | 354 | 11 | US-11-008-570-34 | Sequence 34, Appl |
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| 797 | 25 | 55.6 | 359 | 11 | US-11-088-306-8 | Sequence 8, Appli |
| 798 | 25 | 55.6 | 362 | 11 | US-11-188-298-3468 | Sequence 3468, Ap |
| 799 | 25 | 55.6 | 363 | 11 | US-11-096-568A-5410 | Sequence 5410, Ap |
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| 801 | 25 | 55.6 | 365 | 11 | US-11-087-099-8034 | Sequence 8034, Ap |
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| 805 | 25 | 55.6 | 368 | 11 | US-11-096-568A-5409 | Sequence 5409, Ap |
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| 807 | 25 | 55.6 | 376 | 11 | US-11-096-568A-30761 | Sequence 30761, A |
| 808 | 25 | 55.6 | 378 | 11 | US-11-244-219-7 | Sequence 7, Appli |
| 809 | 25 | 55.6 | 380 | 11 | US-11-196-475-118 | Sequence 118, App |
| 810 | 25 | 55.6 | 381 | 11 | US-11-024-959-418 | Sequence 418, App |
| 811 | 25 | 55.6 | 383 | 11 | US-11-096-568A-9897 | Sequence 9897, Ap |
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| 816 | 25 | 55.6 | 391 | 11 | US-11-188-298-1549 | Sequence 1549, Ap |
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| 818 | 25 | 55.6 | 392 | 11 | US-11-188-298-2511 | Sequence 2511, Ap |
| 819 | 25 | 55.6 | 392 | 11 | US-11-188-298-11834 | Sequence 11834, A |
| 820 | 25 | 55.6 | 392 | 11 | US-11-188-298-13443 | Sequence 13443, A |
| 821 | 25 | 55.6 | 393 | 11 | US-11-196-475-114 | Sequence 114, App |
| 822 | 25 | 55.6 | 393 | 11 | US-11-188-298-5111 | Sequence 5111, Ap |
| 823 | 25 | 55.6 | 394 | 11 | US-11-087-099-9018 | Sequence 9018, Ap |
| 824 | 25 | 55.6 | 394 | 11 | US-11-188-298-13080 | Sequence 13080, A |

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| 836 | 25 | 55.6 | 409 | 11 | US-11-188-298-14386 | Sequence 14386, A |
| 837 | 25 | 55.6 | 414 | 11 | US-11-045-004-952 | Sequence 952, App |
| 838 | 25 | 55.6 | 415 | 11 | US-11-110-851-64 | Sequence 64, Appl |
| 839 | 25 | 55.6 | 415 | 11 | US-11-096-568A-5408 | Sequence 5408, Ap |
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| 841 | 25 | 55.6 | 417 | 11 | US-11-110-851-61 | Sequence 61, Appl |
| 842 | 25 | 55.6 | 418 | 11 | US-11-188-298-15730 | Sequence 15730, A |
| 843 | 25 | 55.6 | 419 | 11 | US-11-040-218-87 | Sequence 87, Appl |
| 844 | 25 | 55.6 | 425 | 11 | US-11-096-568A-9912 | Sequence 9912, Ap |
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| 847 | 25 | 55.6 | 428 | 9 | US-10-455-772-762 | Sequence 762, App |
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| 849 | 25 | 55.6 | 430 | 11 | US-11-045-004-1372 | Sequence 1372, Ap |
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| 852 | 25 | 55.6 | 433 | 11 | US-11-040-218-89 | Sequence 89, Appl |
| 853 | 25 | 55.6 | 434 | 11 | US-11-188-298-11425 | Sequence 11425, A |
| 854 | 25 | 55.6 | 437 | 9 | US-10-525-710-18 | Sequence 18, Appl |
| 855 | 25 | 55.6 | 437 | 11 | US-11-096-568A-9911 | Sequence 9911, Ap |
| 856 | 25 | 55.6 | 440 | 11 | US-11-087-099-5539 | Sequence 5539, Ap |
| 857 | 25 | 55.6 | 440 | 11 | US-11-087-099-10131 | Sequence 10131, A |
| 858 | 25 | 55.6 | 441 | 11 | US-11-196-475-120 | Sequence 120, App |
| 859 | 25 | 55.6 | 442 | 11 | US-11-188-298-5678 | Sequence 5678, Ap |
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| 861 | 25 | 55.6 | 444 | 11 | US-11-143-947A-7 | Sequence 7, Appli |
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| 875 | 25 | 55.6 | 469 | 11 | US-11-133-360-20 | Sequence 20, Appl |
| 876 | 25 | 55.6 | 469 | 11 | US-11-133-346-20 | Sequence 20, Appl |
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| 888 | 25 | 55.6 | 491 | 9 | US-10-793-626-1798 | Sequence 1798, Ap |
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| 891 | 25 | 55.6 | 494 | 9 | US-10-467-657-4376 | Sequence 4376, Ap |
| 892 | 25 | 55.6 | 497 | 11 | US-11-188-298-17946 | Sequence 17946, A |
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| 894 | 25 | 55.6 | 505 | 11 | US-11-073-112-6 | Sequence 6, Appli |
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| 908 | 25 | 55.6 | 522 | 11 | US-11-096-568A-34035 | Sequence 34035, A |
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| 910 | 25 | 55.6 | 525 | 11 | US-11-052-554A-209 | Sequence 209, App |
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| 915 | 25 | 55.6 | 525 | 11 | US-11-188-298-5543 | Sequence 5543, Ap |
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| 921 | 25 | 55.6 | 526 | 11 | US-11-079-463-8332 | Sequence 8332, Ap |
| 922 | 25 | 55.6 | 526 | 11 | US-11-188-298-6566 | Sequence 6566, Ap |
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| 927 | 25 | 55.6 | 527 | 11 | US-11-188-298-12326 | Sequence 12326, A |
| 928 | 25 | 55.6 | 528 | 9 | US-10-858-730-88 | Sequence 88, Appl |
| 929 | 25 | 55.6 | 528 | 11 | US-11-188-298-5387 | Sequence 5387, Ap |
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| 948 | 25 | 55.6 | 564 | 11 | US-11-188-298-1900 | Sequence 1900, Ap |
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| 957 | 25 | 55.6 | 570 | 11 | US-11-096-568A-34034 | Sequence 34034, A |
| 958 | 25 | 55.6 | 576 | 11 | US-11-188-298-13469 | Sequence 13469, A |
| 959 | 25 | 55.6 | 580 | 11 | US-11-087-099-1273 | Sequence 1273, Ap |
| 960 | 25 | 55.6 | 580 | 11 | US-11-087-099-6034 | Sequence 6034, Ap |
| 961 | 25 | 55.6 | 580 | 11 | US-11-087-099-6200 | Sequence 6200, Ap |
| 962 | 25 | 55.6 | 580 | 11 | US-11-087-099-9615 | Sequence 9615, Ap |
| 963 | 25 | 55.6 | 580 | 11 | US-11-188-298-20169 | Sequence 20169, A |
| 964 | 25 | 55.6 | 581 | 11 | US-11-087-099-4940 | Sequence 4940, Ap |
| 965 | 25 | 55.6 | 581 | 11 | US-11-087-099-10168 | Sequence 10168, A |
| 966 | 25 | 55.6 | 582 | 11 | US-11-087-099-1734 | Sequence 1734, Ap |
| 967 | 25 | 55.6 | 585 | 9 | US-10-967-457-18 | Sequence 18, Appl |
| 968 | 25 | 55.6 | 585 | 9 | US-10-939-890-500 | Sequence 500, App |
| 969 | 25 | 55.6 | 585 | 9 | US-10-489-716-9 | Sequence 9, Appli |
| 970 | 25 | 55.6 | 585 | 9 | US-10-936-447-12 | Sequence 12, Appl |

| | | | | | | |
|---|---|---|---|---|---|---|
| 971 | 25 | 55.6 | 585 | 11 | US-11-078-663-18 | Sequence 18, Appl |
| 972 | 25 | 55.6 | 585 | 11 | US-11-078-914-18 | Sequence 18, Appl |
| 973 | 25 | 55.6 | 585 | 11 | US-11-175-690-1 | Sequence 1, Appli |
| 974 | 25 | 55.6 | 585 | 11 | US-11-232-439-445 | Sequence 445, App |
| 975 | 25 | 55.6 | 585 | 11 | US-11-244-497-1 | Sequence 1, Appli |
| 976 | 25 | 55.6 | 585 | 11 | US-11-264-096-18 | Sequence 18, Appl |
| 977 | 25 | 55.6 | 588 | 11 | US-11-196-475-122 | Sequence 122, App |
| 978 | 25 | 55.6 | 590 | 11 | US-11-087-099-2105 | Sequence 2105, Ap |
| 979 | 25 | 55.6 | 598 | 11 | US-11-079-463-9329 | Sequence 9329, Ap |
| 980 | 25 | 55.6 | 609 | 9 | US-10-510-101-70 | Sequence 70, Appl |
| 981 | 25 | 55.6 | 609 | 11 | US-11-175-690-3 | Sequence 3, Appli |
| 982 | 25 | 55.6 | 609 | 11 | US-11-038-901-1 | Sequence 1, Appli |
| 983 | 25 | 55.6 | 613 | 11 | US-11-166-994-4 | Sequence 4, Appli |
| 984 | 25 | 55.6 | 620 | 9 | US-10-489-716-10 | Sequence 10, Appl |
| 985 | 25 | 55.6 | 620 | 11 | US-11-079-463-6509 | Sequence 6509, Ap |
| 986 | 25 | 55.6 | 620 | 11 | US-11-188-298-3301 | Sequence 3301, Ap |
| 987 | 25 | 55.6 | 620 | 11 | US-11-188-298-6183 | Sequence 6183, Ap |
| 988 | 25 | 55.6 | 620 | 11 | US-11-188-298-17632 | Sequence 17632, A |
| 989 | 25 | 55.6 | 621 | 11 | US-11-188-298-7029 | Sequence 7029, Ap |
| 990 | 25 | 55.6 | 628 | 11 | US-11-036-256-61 | Sequence 61, Appl |
| 991 | 25 | 55.6 | 629 | 11 | US-11-175-690-561 | Sequence 561, App |
| 992 | 25 | 55.6 | 629 | 11 | US-11-175-690-562 | Sequence 562, App |
| 993 | 25 | 55.6 | 630 | 11 | US-11-175-690-234 | Sequence 234, App |
| 994 | 25 | 55.6 | 631 | 11 | US-11-175-690-235 | Sequence 235, App |
| 995 | 25 | 55.6 | 632 | 11 | US-11-175-690-236 | Sequence 236, App |
| 996 | 25 | 55.6 | 633 | 11 | US-11-175-690-228 | Sequence 228, App |
| 997 | 25 | 55.6 | 634 | 11 | US-11-175-690-207 | Sequence 207, App |
| 998 | 25 | 55.6 | 634 | 11 | US-11-175-690-279 | Sequence 279, App |
| 999 | 25 | 55.6 | 634 | 11 | US-11-175-690-280 | Sequence 280, App |
| 1000 | 25 | 55.6 | 634 | 11 | US-11-045-004-2538 | Sequence 2538, Ap |

ALIGNMENTS

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RESULT 1
US-10-530-061-1657
; Sequence 1657, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1657
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-1657

  Query Match             100.0%;  Score 45;  DB 9;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.0099;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db          5 SLYGTTLEQ 13


RESULT 2
US-10-530-061-1658
; Sequence 1658, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1658
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-1658

  Query Match             100.0%;  Score 45;  DB 9;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.0099;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db          3 SLYGTTLEQ 11


RESULT 3
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
;  APPLICANT: HealthBanks Biotech CO. LTD.
;  TITLE OF INVENTION: Fusion protein for inhibiting cervcal cancer
;  FILE REFERENCE: P7819/0613
;  CURRENT APPLICATION NUMBER: US/11/206,138
;  CURRENT FILING DATE:  2005-08-18
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-11-206-138-3

  Query Match             100.0%;  Score 45;  DB 11;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db         89 SLYGTTLEQ 97


RESULT 4
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
;  APPLICANT: PANG, XIAOWU
;  TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
;  TITLE OF INVENTION:  RECOMBINANT REPLICON
;  FILE REFERENCE: 116620-003
;  CURRENT APPLICATION NUMBER: US/11/192,923A
;  CURRENT FILING DATE:  2005-07-29
;  PRIOR APPLICATION NUMBER: CN 03115272.4
;  PRIOR FILING DATE: 2003-01-30
;  PRIOR APPLICATION NUMBER: CN 03115273.2
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;  PRIOR FILING DATE: 2003-01-30
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
;   LENGTH: 256
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-11-192-923A-2

  Query Match            100.0%;  Score 45;  DB 11;  Length 256;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||||||||
Db        187 SLYGTTLEQ 195


RESULT 5
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-13

  Query Match             93.3%;  Score 42;  DB 9;  Length 151;
  Best Local Similarity   88.9%;  Pred. No. 0.37;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |:|||||||
Db         82 SVYGTTLEQ 90


RESULT 6
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-1

  Query Match             93.3%;  Score 42;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 0.61;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |:|||||||
Db         82 SVYGTTLEQ 90


RESULT 7
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-3

  Query Match             93.3%;  Score 42;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 0.61;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |:|||||||
Db         82 SVYGTTLEQ 90


RESULT 8
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-5

  Query Match             93.3%;  Score 42;  DB 9;  Length 248;
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  Best Local Similarity   88.9%;  Pred. No. 0.61;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |:|||||||
Db         82 SVYGTTLEQ 90


RESULT 9
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-7

  Query Match             93.3%;  Score 42;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 0.61;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |:|||||||
Db        179 SVYGTTLEQ 187


RESULT 10
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-9

  Query Match             93.3%;  Score 42;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 0.61;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |:|||||||
Db        179 SVYGTTLEQ 187


RESULT 11
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-11

  Query Match             93.3%;  Score 42;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 0.61;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |:|||||||
Db        179 SVYGTTLEQ 187


RESULT 12
US-10-530-253-24
; Sequence 24, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 24
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 58
US-10-530-253-24

  Query Match             86.7%;  Score 39;  DB 9;  Length 149;
  Best Local Similarity   88.9%;  Pred. No. 1.4;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |||| ||||
Db         82 SLYGDTLEQ 90


RESULT 13
US-10-530-061-612
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; Sequence 612, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 612
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-612

Query Match 84.4%; Score 38; DB 9; Length 9;
Best Local Similarity 77.8%; Pred. No. 1.9e+05;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
|:||||||:
Db 1 SVYGTTLER 9

RESULT 14
US-10-530-061-541
; Sequence 541, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 541
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-541

Query Match 84.4%; Score 38; DB 9; Length 10;
Best Local Similarity 77.8%; Pred. No. 0.16;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
|:||||||:
Db 2 SVYGTTLER 10

RESULT 15
US-10-530-061-1672
; Sequence 1672, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1672
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1672

Query Match 84.4%; Score 38; DB 9; Length 15;
Best Local Similarity 77.8%; Pred. No. 0.24;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
|:||||||:
Db 5 SVYGTTLEK 13

RESULT 16
US-10-530-253-16
; Sequence 16, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 31
US-10-530-253-16

Query Match 84.4%; Score 38; DB 9; Length 149;
Best Local Similarity 77.8%; Pred. No. 2.3;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
|:||||||:
Db 82 SVYGTTLEK 90

RESULT 17
US-10-530-061-611
; Sequence 611, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES

```
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 611
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-611

  Query Match             82.2%;  Score 37;  DB 9;  Length 9;
  Best Local Similarity   77.8%;  Pred. No. 1.9e+05;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              | ||||||:
Db          1 SFYGTTLEK 9


RESULT 18
US-10-530-061-1679
; Sequence 1679, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1679
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-1679

  Query Match             82.2%;  Score 37;  DB 9;  Length 15;
  Best Local Similarity   77.8%;  Pred. No. 0.38;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |:|| ||||
Db          3 SVYGNTLEQ 11


RESULT 19
US-10-530-253-17
; Sequence 17, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 33
US-10-530-253-17

  Query Match             82.2%;  Score 37;  DB 9;  Length 149;
  Best Local Similarity   77.8%;  Pred. No. 3.6;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |:|| ||||
Db         82 SVYGNTLEQ 90


RESULT 20
US-10-530-253-21
; Sequence 21, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 21
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 51
US-10-530-253-21

  Query Match             82.2%;  Score 37;  DB 9;  Length 151;
  Best Local Similarity   87.5%;  Pred. No. 3.6;
  Matches    7;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLE 8
              |:||||||
Db         82 SVYGTTLE 89


RESULT 21
US-11-070-627-7
; Sequence 7, Application US/11070627
; Publication No. US20050271625A1
; GENERAL INFORMATION:
;  APPLICANT: Nash , Kevin R.
;  APPLICANT:  Burger, Corinna
;  TITLE OF INVENTION: rAAV-NEPRILYSIN COMPOSITIONS AND METHODS OF USE
;  FILE REFERENCE: 36689.8
;  CURRENT APPLICATION NUMBER: US/11/070,627
;  CURRENT FILING DATE:  2005-03-02
;  PRIOR APPLICATION NUMBER: 60/549,399
;  PRIOR FILING DATE: 2004-03-02
;  NUMBER OF SEQ ID NOS: 11
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 7
;   LENGTH: 774
```

; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-11-070-627-7

Query Match 82.2%; Score 37; DB 11; Length 774;
Best Local Similarity 66.7%; Pred. No. 18;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
:|||||:|:
Db 420 ALYGTTMEE 428

RESULT 22
US-10-530-061-582
; Sequence 582, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 582
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-582

Query Match 80.0%; Score 36; DB 9; Length 10;
Best Local Similarity 77.8%; Pred. No. 0.4;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
|||| ||| :
Db 1 SLYGKTLEE 9

RESULT 23
US-10-530-253-22
; Sequence 22, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 22
; LENGTH: 148
; TYPE: PRT
; ORGANISM: Human papillomavirus type 52
US-10-530-253-22

Query Match 80.0%; Score 36; DB 9; Length 148;
Best Local Similarity 77.8%; Pred. No. 5.6;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
|||| ||| :
Db 82 SLYGKTLEE 90

RESULT 24
US-10-530-061-797
; Sequence 797, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 797
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-797

Query Match 77.8%; Score 35; DB 9; Length 10;
Best Local Similarity 87.5%; Pred. No. 0.63;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LYGTTLEQ 9
||| ||||
Db 1 LYGDTLEQ 8

RESULT 25
US-10-530-061-86
; Sequence 86, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 86
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-86

Query Match 75.6%; Score 34; DB 9; Length 9;
Best Local Similarity 75.0%; Pred. No. 1.9e+05;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

```
Qy          2 LYGTTLEQ 9
              :||||||:
Db          1 VYGTTLEK 8


RESULT 26
US-10-530-061-814
; Sequence 814, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 814
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-814

  Query Match            75.6%;  Score 34;  DB 9;  Length 9;
  Best Local Similarity  75.0%;  Pred. No. 1.9e+05;
  Matches    6;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 LYGTTLEQ 9
              :||||||:
Db          1 VYGTTLEK 8


RESULT 27
US-10-530-061-540
; Sequence 540, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 540
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-540

  Query Match            75.6%;  Score 34;  DB 9;  Length 10;
  Best Local Similarity  75.0%;  Pred. No. 0.99;
  Matches    6;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 LYGTTLEQ 9
              :||||||:
Db          3 VYGTTLEK 10


RESULT 28
US-11-078-915-19
; Sequence 19, Application US/11078915
; Publication No. US20060078959A1
; GENERAL INFORMATION:
;  APPLICANT: Prabhakar, Vikas
;  APPLICANT:  Capila, Ishan
;  APPLICANT:  Ramon, Rahul
;  APPLICANT:  Bosques, Carlos
;  APPLICANT:  Pojasek, Kevin
;  APPLICANT:  Sasisekharan, Ram
;  TITLE OF INVENTION: RECOMBINANT CHONDROITINASE ABC I AND USES THEREOF
;  FILE REFERENCE: M0656.70105US03
;  CURRENT APPLICATION NUMBER: US/11/078,915
;  CURRENT FILING DATE:  2005-03-10
;  PRIOR APPLICATION NUMBER: US 60/552,232
;  PRIOR FILING DATE: 2004-03-10
;  PRIOR APPLICATION NUMBER: US 60/578,917
;  PRIOR FILING DATE: 2004-06-10
;  PRIOR APPLICATION NUMBER: US 60/625,052
;  PRIOR FILING DATE: 2004-11-03
;  NUMBER OF SEQ ID NOS: 77
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 19
;   LENGTH: 951
;   TYPE: PRT
;   ORGANISM: Proteus vulgaris
US-11-078-915-19

  Query Match            75.6%;  Score 34;  DB 11;  Length 951;
  Best Local Similarity  85.7%;  Pred. No. 87;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 YGTTLEQ 9
              |||||:|
Db        739 YGTTLQQ 745


RESULT 29
US-11-098-686-10134
; Sequence 10134, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
;  APPLICANT: Kapur, Vivek and Gebhart, Connie J.
;  TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
;  TITLE OF INVENTION:  FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
;  FILE REFERENCE: 09531-128001
;  CURRENT APPLICATION NUMBER: US/11/098,686
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31318
;  PRIOR FILING DATE: 2003-10-01
;  PRIOR APPLICATION NUMBER: US 60/416,395
;  PRIOR FILING DATE: 2002-10-04
;  NUMBER OF SEQ ID NOS: 11433
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10134
;   LENGTH: 355
;   TYPE: PRT
;   ORGANISM: Lawsonia intracellularis
US-11-098-686-10134

  Query Match            73.3%;  Score 33;  DB 11;  Length 355;
  Best Local Similarity  75.0%;  Pred. No. 52;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLE 8
              |||| |:|
Db        249 SLYGVTIE 256
```

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RESULT 30
US-10-530-061-627
; Sequence 627, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 627
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-627

  Query Match             71.1%;  Score 32;  DB 9;  Length 9;
  Best Local Similarity   66.7%;  Pred. No. 1.9e+05;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |:|| |||:
Db          1 SVYGETLER 9


RESULT 31
US-10-530-061-527
; Sequence 527, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 527
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-527

  Query Match             71.1%;  Score 32;  DB 9;  Length 10;
  Best Local Similarity   66.7%;  Pred. No. 2.5;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |:|| |||:
Db          2 SVYGDTLER 10


RESULT 32
US-10-530-061-570
; Sequence 570, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 570
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-570

  Query Match             71.1%;  Score 32;  DB 9;  Length 10;
  Best Local Similarity   66.7%;  Pred. No. 2.5;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |:|| |||:
Db          2 SVYGETLER 10


RESULT 33
US-10-530-061-581
; Sequence 581, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 581
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-581

  Query Match             71.1%;  Score 32;  DB 9;  Length 10;
  Best Local Similarity   66.7%;  Pred. No. 2.5;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              | || |||:
Db          1 SFYGKTLEE 9


RESULT 34
US-10-530-061-1694
; Sequence 1694, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
```

; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1694
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1694

Query Match 71.1%; Score 32; DB 9; Length 15;
Best Local Similarity 75.0%; Pred. No. 3.7;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLYGTTLE 8
|:|| |||
Db 5 SVYGATLE 12

RESULT 35
US-10-530-253-18
; Sequence 18, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 35
US-10-530-253-18

Query Match 71.1%; Score 32; DB 9; Length 149;
Best Local Similarity 66.7%; Pred. No. 35;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
|:|| |||:
Db 82 SVYGETLEK 90

RESULT 36
US-10-530-253-39
; Sequence 39, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 39
; LENGTH: 152
; TYPE: PRT
; ORGANISM: Human papillomavirus
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(152)
; OTHER INFORMATION: where Xaa is any amino acid
US-10-530-253-39

Query Match 71.1%; Score 32; DB 9; Length 152;
Best Local Similarity 75.0%; Pred. No. 36;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLYGTTLE 8
|:|| |||
Db 84 SVYGXTLE 91

RESULT 37
US-10-530-253-23
; Sequence 23, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 23
; LENGTH: 155
; TYPE: PRT
; ORGANISM: Human papillomavirus type 56
US-10-530-253-23

Query Match 71.1%; Score 32; DB 9; Length 155;
Best Local Similarity 75.0%; Pred. No. 36;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLYGTTLE 8
|:|| |||
Db 85 SVYGATLE 92

RESULT 38
US-10-506-454-1502
; Sequence 1502, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
; APPLICANT: Slesarev, Alexi I
; APPLICANT: Mezhevaya, Katja V
; APPLICANT: Polushin, Nikolai N
; APPLICANT: Shcherbinina, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Malykh, Andrei G

```
;  APPLICANT:  Kozyavkin, Sergei A
;  TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
;  TITLE OF INVENTION:  Methanopyrus Kandleri AV19 and Monophyly of Archael Methanogens
;  TITLE OF INVENTION:  and Methods of Use Thereof
;  FILE REFERENCE: FID001
;  CURRENT APPLICATION NUMBER: US/10/506,454
;  CURRENT FILING DATE:  2004-08-31
;  PRIOR APPLICATION NUMBER: PCT/US03/06664
;  PRIOR FILING DATE: 2003-03-04
;  PRIOR APPLICATION NUMBER: 60/361,742
;  PRIOR FILING DATE: 2002-03-04
;  NUMBER OF SEQ ID NOS: 1722
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1502
;   LENGTH: 157
;   TYPE: PRT
;   ORGANISM: Methanopyrus kandleri
US-10-506-454-1502

  Query Match             71.1%;  Score 32;  DB 9;  Length 157;
  Best Local Similarity   100.0%;  Pred. No. 37;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 YGTTLE 8
              ||||||
Db         87 YGTTLE 92


RESULT 39
US-10-530-253-15
; Sequence 15, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 18
US-10-530-253-15

  Query Match             71.1%;  Score 32;  DB 9;  Length 158;
  Best Local Similarity   66.7%;  Pred. No. 37;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |:|| |||:
Db         84 SVYGDTLEK 92


RESULT 40
US-10-530-253-20
; Sequence 20, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 45
US-10-530-253-20

  Query Match             71.1%;  Score 32;  DB 9;  Length 158;
  Best Local Similarity   66.7%;  Pred. No. 37;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              |:|| |||:
Db         84 SVYGETLEK 92


RESULT 41
US-10-530-061-626
; Sequence 626, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 626
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-626

  Query Match             68.9%;  Score 31;  DB 9;  Length 9;
  Best Local Similarity   66.7%;  Pred. No. 1.9e+05;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SLYGTTLEQ 9
              | || |||:
Db          1 SFYGETLEK 9


RESULT 42
US-10-530-061-804
; Sequence 804, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
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; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 804
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-804

Query Match 68.9%; Score 31; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SLYGTT 6
||||||
Db 3 SLYGTT 8

RESULT 43
US-10-530-253-19
; Sequence 19, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 39
US-10-530-253-19

Query Match 68.9%; Score 31; DB 9; Length 158;
Best Local Similarity 75.0%; Pred. No. 59;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLYGTTLE 8
|:| ||||
Db 84 SVYATTLE 91

RESULT 44
US-10-530-253-26
; Sequence 26, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 26
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 68
US-10-530-253-26

Query Match 68.9%; Score 31; DB 9; Length 158;
Best Local Similarity 75.0%; Pred. No. 59;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLYGTTLE 8
|:| ||||
Db 84 SVYATTLE 91

RESULT 45
US-10-530-253-25
; Sequence 25, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 25
; LENGTH: 160
; TYPE: PRT
; ORGANISM: Human papillomavirus type 59
US-10-530-253-25

Query Match 68.9%; Score 31; DB 9; Length 160;
Best Local Similarity 75.0%; Pred. No. 59;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLYGTTLE 8
|:|| |||
Db 84 SVYGETLE 91

RESULT 46
US-11-087-099-1401
; Sequence 1401, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 1401
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Medicago sativa
US-11-087-099-1401

Query Match 68.9%; Score 31; DB 11; Length 187;
Best Local Similarity 55.6%; Pred. No. 69;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLYGTTLEQ 9
|:| ||::|
Db 44 SVYATTIQQ 52

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RESULT 47
US-10-510-959-4
; Sequence 4, Application US/10510959
; Publication No. US20060035318A1
; GENERAL INFORMATION:
;  APPLICANT: Lovejoy, David
;  APPLICANT:  Chewpoy, R.B.
;  APPLICANT:  Barsyte, Dalia
;  APPLICANT:  Rotzinger, Susan
;  TITLE OF INVENTION: Tereuin C-Terminal Associated Peptides (TCAP) And Methods And Use
;  TITLE OF INVENTION:  Thereof
;  FILE REFERENCE: 2223-189
;  CURRENT APPLICATION NUMBER: US/10/510,959
;  CURRENT FILING DATE:  2004-11-01
;  PRIOR APPLICATION NUMBER: US 60/376,879
;  PRIOR FILING DATE: 2002-05-02
;  PRIOR APPLICATION NUMBER: US 60/377,231
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: US 60/424,016
;  PRIOR FILING DATE: 2002-11-06
;  NUMBER OF SEQ ID NOS: 136
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
;   LENGTH: 252
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Mouse Ten M1
US-10-510-959-4

  Query Match             68.9%;  Score 31;  DB 9;  Length 252;
  Best Local Similarity   71.4%;  Pred. No. 93;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 YGTTLEQ 9
              ||||:|:
Db        162 YGTTVEE 168


RESULT 48
US-10-510-959-8
; Sequence 8, Application US/10510959
; Publication No. US20060035318A1
; GENERAL INFORMATION:
;  APPLICANT: Lovejoy, David
;  APPLICANT:  Chewpoy, R.B.
;  APPLICANT:  Barsyte, Dalia
;  APPLICANT:  Rotzinger, Susan
;  TITLE OF INVENTION: Tereuin C-Terminal Associated Peptides (TCAP) And Methods And Use
;  TITLE OF INVENTION:  Thereof
;  FILE REFERENCE: 2223-189
;  CURRENT APPLICATION NUMBER: US/10/510,959
;  CURRENT FILING DATE:  2004-11-01
;  PRIOR APPLICATION NUMBER: US 60/376,879
;  PRIOR FILING DATE: 2002-05-02
;  PRIOR APPLICATION NUMBER: US 60/377,231
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: US 60/424,016
;  PRIOR FILING DATE: 2002-11-06
;  NUMBER OF SEQ ID NOS: 136
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8
;   LENGTH: 252
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Human Ten M1
US-10-510-959-8

  Query Match             68.9%;  Score 31;  DB 9;  Length 252;
  Best Local Similarity   71.4%;  Pred. No. 93;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 YGTTLEQ 9
              ||||:|:
Db        162 YGTTVEE 168


RESULT 49
US-10-510-959-11
; Sequence 11, Application US/10510959
; Publication No. US20060035318A1
; GENERAL INFORMATION:
;  APPLICANT: Lovejoy, David
;  APPLICANT:  Chewpoy, R.B.
;  APPLICANT:  Barsyte, Dalia
;  APPLICANT:  Rotzinger, Susan
;  TITLE OF INVENTION: Tereuin C-Terminal Associated Peptides (TCAP) And Methods And Use
;  TITLE OF INVENTION:  Thereof
;  FILE REFERENCE: 2223-189
;  CURRENT APPLICATION NUMBER: US/10/510,959
;  CURRENT FILING DATE:  2004-11-01
;  PRIOR APPLICATION NUMBER: US 60/376,879
;  PRIOR FILING DATE: 2002-05-02
;  PRIOR APPLICATION NUMBER: US 60/377,231
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: US 60/424,016
;  PRIOR FILING DATE: 2002-11-06
;  NUMBER OF SEQ ID NOS: 136
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
;   LENGTH: 252
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Human Ten M4
US-10-510-959-11

  Query Match             68.9%;  Score 31;  DB 9;  Length 252;
  Best Local Similarity   71.4%;  Pred. No. 93;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 YGTTLEQ 9
              |||||::
Db        162 YGTTLDE 168


RESULT 50
US-11-079-463-9077
; Sequence 9077, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PATH00-03DIV2
;  CURRENT APPLICATION NUMBER: US/11/079,463
;  CURRENT FILING DATE:  2005-03-14
;  PRIOR APPLICATION NUMBER: US 60/128,705
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/540,209
;  PRIOR FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 9077
;   LENGTH: 385
;   TYPE: PRT
;   ORGANISM: B.fragilis
US-11-079-463-9077

  Query Match             68.9%;  Score 31;  DB 11;  Length 385;
  Best Local Similarity   85.7%;  Pred. No. 1.4e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 YGTTLEQ 9
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              ||| |||
Db        335 YGTQLEQ 341

Search completed: May  5, 2006, 07:45:47
Job time : 20.4 secs
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OM protein - protein search, using sw model

Run on: May 5, 2006, 01:38:21 ; Search time 20.8 Seconds
(without alignments)
35.773 Million cell updates/sec

Title: US-08-170-344-52
Perfect score: 47
Sequence: 1 TTLEQQYNK 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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3: /cgn2_6/ptodata/1/iaa/H_COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/RE_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
|---|---|---|---|---|---|---|
| 1 | 47 | 100.0 | 9 | 2 | US-08-159-339A-78 | Sequence 78, Appl |
| 2 | 47 | 100.0 | 10 | 2 | US-08-159-339A-77 | Sequence 77, Appl |
| 3 | 47 | 100.0 | 20 | 1 | US-08-934-915-45 | Sequence 45, Appl |
| 4 | 47 | 100.0 | 20 | 1 | US-08-934-915-164 | Sequence 164, App |
| 5 | 47 | 100.0 | 29 | 2 | US-09-980-523A-8 | Sequence 8, Appli |
| 6 | 47 | 100.0 | 151 | 2 | US-09-701-080C-18 | Sequence 18, Appl |
| 7 | 47 | 100.0 | 158 | 2 | US-09-980-523A-2 | Sequence 2, Appli |
| 8 | 47 | 100.0 | 162 | 1 | US-08-316-239B-3 | Sequence 3, Appli |
| 9 | 47 | 100.0 | 162 | 1 | US-08-316-239B-4 | Sequence 4, Appli |
| 10 | 47 | 100.0 | 172 | 2 | US-08-860-165-12 | Sequence 12, Appl |
| 11 | 47 | 100.0 | 172 | 2 | US-09-359-382-12 | Sequence 12, Appl |
| 12 | 47 | 100.0 | 243 | 2 | US-09-462-993-1 | Sequence 1, Appli |
| 13 | 47 | 100.0 | 266 | 2 | US-08-860-165-10 | Sequence 10, Appl |
| 14 | 47 | 100.0 | 266 | 2 | US-09-359-382-10 | Sequence 10, Appl |
| 15 | 47 | 100.0 | 266 | 2 | US-09-367-309A-1 | Sequence 1, Appli |
| 16 | 47 | 100.0 | 273 | 2 | US-09-485-885-4 | Sequence 4, Appli |
| 17 | 47 | 100.0 | 292 | 2 | US-09-485-885-10 | Sequence 10, Appl |
| 18 | 47 | 100.0 | 371 | 2 | US-09-485-885-6 | Sequence 6, Appli |
| 19 | 47 | 100.0 | 390 | 2 | US-09-485-885-14 | Sequence 14, Appl |
| 20 | 37 | 78.7 | 182 | 1 | US-08-117-083-10 | Sequence 10, Appl |
| 21 | 36 | 76.6 | 336 | 2 | US-09-848-294-6 | Sequence 6, Appli |
| 22 | 36 | 76.6 | 1024 | 2 | US-09-562-737-41 | Sequence 41, Appl |
| 23 | 36 | 76.6 | 1024 | 2 | US-09-562-737-49 | Sequence 49, Appl |
| 24 | 35 | 74.5 | 677 | 2 | US-09-328-352-7826 | Sequence 7826, Ap |
| 25 | 34 | 72.3 | 188 | 2 | US-09-941-945A-2 | Sequence 2, Appli |
| 26 | 34 | 72.3 | 199 | 2 | US-09-540-236-1962 | Sequence 1962, Ap |
| 27 | 34 | 72.3 | 810 | 2 | US-09-712-363-281 | Sequence 281, App |
| 28 | 34 | 72.3 | 1024 | 2 | US-09-562-737-42 | Sequence 42, Appl |
| 29 | 34 | 72.3 | 1024 | 2 | US-09-562-737-43 | Sequence 43, Appl |
| 30 | 34 | 72.3 | 1024 | 2 | US-09-562-737-48 | Sequence 48, Appl |
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| 44 | 31 | 66.0 | 1024 | 2 | US-09-562-737-44 | Sequence 44, Appl |
| 45 | 31 | 66.0 | 1024 | 2 | US-09-562-737-50 | Sequence 50, Appl |
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| 48 | 31 | 66.0 | 1052 | 2 | US-08-863-118-2 | Sequence 2, Appli |
| 49 | 31 | 66.0 | 1052 | 2 | US-09-377-310-2 | Sequence 2, Appli |
| 50 | 31 | 66.0 | 1053 | 2 | US-08-863-118-3 | Sequence 3, Appli |
| 51 | 31 | 66.0 | 3052 | 1 | US-08-557-122A-26 | Sequence 26, Appl |
| 52 | 31 | 66.0 | 3052 | 2 | US-09-262-666-26 | Sequence 26, Appl |
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| 77 | 30 | 63.8 | 710 | 2 | US-09-575-081B-6 | Sequence 6, Appli |
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| 83 | 30 | 63.8 | 1017 | 2 | US-09-762-724-12 | Sequence 12, Appl |
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| 123 | 29 | 61.7 | 356 | 2 | US-09-270-767-37087 | Sequence 37087, A |
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| 207 | 28 | 59.6 | 237 | 2 | US-09-949-016-7143 | Sequence 7143, Ap |
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| 231 | 28 | 59.6 | 509 | 2 | US-09-879-957-194 | Sequence 194, App |
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| 274 | 28 | 59.6 | 883 | 2 | US-10-305-413-4 | Sequence 4, Appli |
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| 276 | 28 | 59.6 | 903 | 2 | US-08-961-810-134 | Sequence 134, App |
| 277 | 28 | 59.6 | 903 | 2 | US-08-352-902D-134 | Sequence 134, App |
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| 318 | 28 | 59.6 | 1188 | 1 | US-08-639-923A-34 | Sequence 34, Appl |
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| 531 | 27 | 57.4 | 1218 | 2 | US-09-438-185A-837 | Sequence 837, App |
| 532 | 27 | 57.4 | 1248 | 1 | US-09-080-897-2 | Sequence 2, Appli |
| 533 | 27 | 57.4 | 1248 | 2 | US-09-323-735-2 | Sequence 2, Appli |
| 534 | 27 | 57.4 | 1255 | 1 | US-09-080-897-4 | Sequence 4, Appli |
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| 537 | 27 | 57.4 | 1266 | 2 | US-09-817-762-6 | Sequence 6, Appli |
| 538 | 27 | 57.4 | 1315 | 2 | US-08-899-595-3 | Sequence 3, Appli |

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| 547 | 27 | 57.4 | 1898 | 1 | US-08-800-644-94 | Sequence 94, Appl |
| 548 | 27 | 57.4 | 1898 | 2 | US-09-538-092-1280 | Sequence 1280, Ap |
| 549 | 27 | 57.4 | 2165 | 1 | US-08-514-975B-2 | Sequence 2, Appli |
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| 551 | 27 | 57.4 | 2165 | 2 | US-09-368-076-30 | Sequence 30, Appl |
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| 554 | 27 | 57.4 | 2206 | 1 | US-07-852-260-2 | Sequence 2, Appli |
| 555 | 27 | 57.4 | 2206 | 1 | US-08-461-503-2 | Sequence 2, Appli |
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| 557 | 27 | 57.4 | 2349 | 2 | US-09-538-092-914 | Sequence 914, App |
| 558 | 27 | 57.4 | 2388 | 2 | US-09-695-795A-2 | Sequence 2, Appli |
| 559 | 27 | 57.4 | 2629 | 1 | US-08-751-189-4 | Sequence 4, Appli |
| 560 | 27 | 57.4 | 2629 | 1 | US-09-060-836-4 | Sequence 4, Appli |
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| 563 | 26 | 55.3 | 30 | 1 | US-08-945-168-111 | Sequence 111, App |
| 564 | 26 | 55.3 | 51 | 2 | US-09-513-999C-6427 | Sequence 6427, Ap |
| 565 | 26 | 55.3 | 58 | 2 | US-10-127-641-5 | Sequence 5, Appli |
| 566 | 26 | 55.3 | 61 | 2 | US-09-248-796A-21602 | Sequence 21602, A |
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| 570 | 26 | 55.3 | 96 | 2 | US-09-270-767-38345 | Sequence 38345, A |
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| 575 | 26 | 55.3 | 106 | 2 | US-09-270-767-42498 | Sequence 42498, A |
| 576 | 26 | 55.3 | 111 | 2 | US-09-270-767-44922 | Sequence 44922, A |
| 577 | 26 | 55.3 | 111 | 2 | US-10-315-432-2 | Sequence 2, Appli |
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| 642 | 26 | 55.3 | 289 | 2 | US-09-270-767-48533 | Sequence 48533, A |
| 643 | 26 | 55.3 | 295 | 2 | US-09-769-787-195 | Sequence 195, App |
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| 758 | 26 | 55.3 | 625 | 2 | US-09-949-016-8810 | Sequence 8810, Ap |
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| 769 | 26 | 55.3 | 674 | 2 | US-09-949-016-7204 | Sequence 7204, Ap |
| 770 | 26 | 55.3 | 674 | 2 | US-09-689-486-7 | Sequence 7, Appli |
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| 775 | 26 | 55.3 | 679 | 2 | US-09-949-016-8035 | Sequence 8035, Ap |
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ALIGNMENTS

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RESULT 1
US-08-159-339A-78
; Sequence 78, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
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;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
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;      TELEX:
;  INFORMATION FOR SEQ ID NO:  78:
;    SEQUENCE CHARACTERISTICS:
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;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-78

  Query Match           100.0%;  Score 47;  DB 2;  Length 9;
  Best Local Similarity  100.0%;  Pred. No. 4.6e+05;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db          1 TTLEQQYNK 9


RESULT 2
US-08-159-339A-77
; Sequence 77, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  77:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  10 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-77

  Query Match           100.0%;  Score 47;  DB 2;  Length 10;
  Best Local Similarity  100.0%;  Pred. No. 0.0066;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
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Qy          1 TTLEQQYNK 9
              |||||||||
Db          2 TTLEQQYNK 10


RESULT 3
US-08-934-915-45
; Sequence 45, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  45:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-45

  Query Match             100.0%;  Score 47;  DB 1;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.014;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db          2 TTLEQQYNK 10


RESULT 4
US-08-934-915-164
; Sequence 164, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  164:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-164

  Query Match             100.0%;  Score 47;  DB 1;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.014;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db          2 TTLEQQYNK 10


RESULT 5
US-09-980-523A-8
; Sequence 8, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
;   LENGTH: 29
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-8
```

Query Match 100.0%; Score 47; DB 2; Length 29;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
||||||||| 
Db 14 TTLEQQYNK 22

RESULT 6
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
; APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
; TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 F
; TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION
; FILE REFERENCE: N73477C GCW
; CURRENT APPLICATION NUMBER: US/09/701,080C
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: GB 9811303.8
; PRIOR FILING DATE: 1998-05-26
; PRIOR APPLICATION NUMBER: GB 9900157.0
; PRIOR FILING DATE: 1999-01-05
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-09-701-080C-18

Query Match 100.0%; Score 47; DB 2; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
||||||||| 
Db 86 TTLEQQYNK 94

RESULT 7
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: WOB1 AO INS
; CURRENT APPLICATION NUMBER: US/09/980,523A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-09-980-523A-2

Query Match 100.0%; Score 47; DB 2; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
||||||||| 
Db 93 TTLEQQYNK 101

RESULT 8
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; APPLICANT: Parmenter, Cheryl A.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; TITLE OF INVENTION: Cervical Cancer
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jagtiani & Associates
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; REFERENCE/DOCKET NUMBER: UNME-0001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 162 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
US-08-316-239B-3

Query Match 100.0%; Score 47; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
||||||||| 
Db 93 TTLEQQYNK 101

RESULT 9
US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; APPLICANT: Parmenter, Cheryl A.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; TITLE OF INVENTION: Cervical Cancer
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:

```
;       ADDRESSEE:  Jagtiani & Associates
;       STREET:  6126 Rocky Way Court
;       CITY:  Centreville
;       STATE:  VA
;       COUNTRY:  USA
;       ZIP:  20120-3400
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.30
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/316,239B
;       FILING DATE:  30-SEP-1994
;       CLASSIFICATION:  435
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Jagtiani, Ajay A.
;       REGISTRATION NUMBER:  35,205
;       REFERENCE/DOCKET NUMBER:  UNME-0001
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (703) 817-9453
;       TELEFAX:  (703) 803-9387
;   INFORMATION FOR SEQ ID NO:  4:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  162 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  not relevant
;       TOPOLOGY:  not relevant
;     MOLECULE TYPE:  protein
;     HYPOTHETICAL:  NO
US-08-316-239B-4

  Query Match             100.0%;  Score 47;  DB 1;  Length 162;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db         93 TTLEQQYNK 101


RESULT 10
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

  Query Match             100.0%;  Score 47;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.13;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db         31 TTLEQQYNK 39


RESULT 11
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-12

  Query Match             100.0%;  Score 47;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.13;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db         31 TTLEQQYNK 39


RESULT 12
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
;  APPLICANT:  KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION:  ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE:  017753-122
;  CURRENT APPLICATION NUMBER: US/09/462,993
;  CURRENT FILING DATE:  2000-04-17
;  PRIOR APPLICATION NUMBER:  PCT/FR98/01576
;  PRIOR FILING DATE:  1998-07-17
;  PRIOR APPLICATION NUMBER:  FR 97/09152
;  PRIOR FILING DATE:  1997-07-18
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

  Query Match             100.0%;  Score 47;  DB 2;  Length 243;
  Best Local Similarity   100.0%;  Pred. No. 0.18;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy          1 TTLEQQYNK 9
              |||||||||
Db        121 TTLEQQYNK 129


RESULT 13
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

  Query Match             100.0%;  Score 47;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db         93 TTLEQQYNK 101


RESULT 14
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-10

  Query Match             100.0%;  Score 47;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db         93 TTLEQQYNK 101


RESULT 15
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 47;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db         93 TTLEQQYNK 101


RESULT 16
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-4

  Query Match             100.0%;  Score 47;  DB 2;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 0.21;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db        199 TTLEQQYNK 207


RESULT 17
US-09-485-885-10
```

```
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-10

  Query Match             100.0%;  Score 47;  DB 2;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.22;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db        218 TTLEQQYNK 226


RESULT 18
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-6

  Query Match             100.0%;  Score 47;  DB 2;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 0.29;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db        199 TTLEQQYNK 207


RESULT 19
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-14

  Query Match             100.0%;  Score 47;  DB 2;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 0.3;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db        218 TTLEQQYNK 226


RESULT 20
US-08-117-083-10
; Sequence 10, Application US/08117083
; Patent No. 5719054
;  GENERAL INFORMATION:
;    APPLICANT:  Boursnell, Michael E.
;    APPLICANT:  Inglis, Stephen C.
;    APPLICANT:  Munro, Alan J.
;    TITLE OF INVENTION:  Recombinant Virus Vectors Encoding Human
;    TITLE OF INVENTION:  Papilloma Virus Proteins
;    NUMBER OF SEQUENCES:  70
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Walter H. Dreger
;      STREET:  4 Embarcadero Center, Suite 3400
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/117,083
;      FILING DATE:  10-SEP-1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Dreger, Walter H.
;      REGISTRATION NUMBER:  24,190
;      REFERENCE/DOCKET NUMBER:  A-58783
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-781-1989
;      TELEFAX:  415-398-3249
;      TELEX:  910 277299
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  182 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    FEATURE:
```

```
;      NAME/KEY:  Protein
;      LOCATION:  1..182
;      OTHER INFORMATION:  /note= "Xaa refers to stop codon in
;      OTHER INFORMATION:  the open reading frame."
US-08-117-083-10

  Query Match             78.7%;  Score 37;  DB 1;  Length 182;
  Best Local Similarity   77.8%;  Pred. No. 12;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              ||||||| :
Db         74 TTLEQQYEE 82


RESULT 21
US-09-848-294-6
; Sequence 6, Application US/09848294
; Patent No. 6479640
; GENERAL INFORMATION:
;  APPLICANT: Tonks, Nicholas K.
;  TITLE OF INVENTION: Isolation of A cDNA Encoding A No. 6479640el
;  TITLE OF INVENTION:  Protein Tyrosine Phosphotase Which Localizes to Focal
;  TITLE OF INVENTION:  Adhesions and Uses Therefor
;  FILE REFERENCE: CSHL90-04FZA
;  CURRENT APPLICATION NUMBER: US/09/848,294
;  CURRENT FILING DATE:  2001-05-03
;  PRIOR APPLICATION NUMBER: 09/235,251
;  PRIOR FILING DATE: 1999-01-22
;  PRIOR APPLICATION NUMBER: 08/759,536
;  PRIOR FILING DATE: 1996-12-04
;  PRIOR APPLICATION NUMBER: 08/107,420
;  PRIOR FILING DATE: 1993-08-16
;  PRIOR APPLICATION NUMBER: 07/663,579
;  PRIOR FILING DATE: 1991-03-01
;  PRIOR APPLICATION NUMBER: 07/494,036
;  PRIOR FILING DATE: 1990-03-14
;  NUMBER OF SEQ ID NOS: 13
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 336
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-09-848-294-6

  Query Match             76.6%;  Score 36;  DB 2;  Length 336;
  Best Local Similarity   66.7%;  Pred. No. 35;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              | |:||||:
Db        311 TVLQQQYNR 319


RESULT 22
US-09-562-737-41
; Sequence 41, Application US/09562737
; Patent No. 6428967
; GENERAL INFORMATION:
;  APPLICANT:  Herz, Joachim
;  APPLICANT:  Gotthardt, Michael
;  TITLE OF INVENTION:  LDL Receptor Signaling Pathways
;  FILE REFERENCE:  UTSW0708
;  CURRENT APPLICATION NUMBER: US/09/562,737
;  CURRENT FILING DATE:  2000-05-01
;  NUMBER OF SEQ ID NOS:  132
;  SOFTWARE:  PatentIn Ver. 2.1
; SEQ ID NO 41
;   LENGTH: 1024
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;   OTHER INFORMATION: Sequence
US-09-562-737-41

  Query Match             76.6%;  Score 36;  DB 2;  Length 1024;
  Best Local Similarity   66.7%;  Pred. No. 1.1e+02;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              | |:||||:
Db        430 TVLQQQYNR 438


RESULT 23
US-09-562-737-49
; Sequence 49, Application US/09562737
; Patent No. 6428967
; GENERAL INFORMATION:
;  APPLICANT:  Herz, Joachim
;  APPLICANT:  Gotthardt, Michael
;  TITLE OF INVENTION:  LDL Receptor Signaling Pathways
;  FILE REFERENCE:  UTSW0708
;  CURRENT APPLICATION NUMBER: US/09/562,737
;  CURRENT FILING DATE:  2000-05-01
;  NUMBER OF SEQ ID NOS:  132
;  SOFTWARE:  PatentIn Ver. 2.1
; SEQ ID NO 49
;   LENGTH: 1024
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;   OTHER INFORMATION: Sequence
US-09-562-737-49

  Query Match             76.6%;  Score 36;  DB 2;  Length 1024;
  Best Local Similarity   66.7%;  Pred. No. 1.1e+02;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              | |:||||:
Db        430 TVLQQQYNR 438


RESULT 24
US-09-328-352-7826
; Sequence 7826, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton et al.
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
;  TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: GTC99-03PA
;  CURRENT APPLICATION NUMBER: US/09/328,352
;  CURRENT FILING DATE: 1999-06-04
;  NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 7826
;   LENGTH: 677
;   TYPE: PRT
;   ORGANISM: Acinetobacter baumannii
US-09-328-352-7826

  Query Match             74.5%;  Score 35;  DB 2;  Length 677;
  Best Local Similarity   66.7%;  Pred. No. 1.1e+02;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              | |||:||:
Db        180 TKLEQEYNR 188


RESULT 25
US-09-941-945A-2
; Sequence 2, Application US/09941945A
```

; Patent No. 6890744
; GENERAL INFORMATION:
; APPLICANT: BATHE, Brigitte, et al.
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES CODING FOR THE sigD GENE
; FILE REFERENCE: 032301 WD 190
; CURRENT APPLICATION NUMBER: US/09/941,945A
; CURRENT FILING DATE: 2001-08-30
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 188
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-09-941-945A-2

Query Match 72.3%; Score 34; DB 2; Length 188;
Best Local Similarity 77.8%; Pred. No. 46;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
:||||| ||
Db 180 STLEQQENK 188

RESULT 26
US-09-540-236-1962
; Sequence 1962, Application US/09540236
; Patent No. 6673910
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CATAR
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2005-001
; CURRENT APPLICATION NUMBER: US/09/540,236
; CURRENT FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 3840
; SEQ ID NO 1962
; LENGTH: 199
; TYPE: PRT
; ORGANISM: M.catarrhalis
US-09-540-236-1962

Query Match 72.3%; Score 34; DB 2; Length 199;
Best Local Similarity 75.0%; Pred. No. 49;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 TLEQQYNK 9
| |:|||
Db 120 TYEEQYNK 127

RESULT 27
US-09-712-363-281
; Sequence 281, Application US/09712363
; Patent No. 6892139
; GENERAL INFORMATION:
; APPLICANT: Eisenberg, David
; APPLICANT: Rotstein, Sergio H.
; APPLICANT: Marcotte, Edward M.
; TITLE OF INVENTION: DETERMINING THE FUNCTIONS AND
; TITLE OF INVENTION: INTERACTIONS OF PROTEINS BY COMPARATIVE ANALYSIS
; FILE REFERENCE: 07419-032001
; CURRENT APPLICATION NUMBER: US/09/712,363
; CURRENT FILING DATE: 2000-11-13
; PRIOR APPLICATION NUMBER: PCT/US00/02246
; PRIOR FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/179,531
; PRIOR FILING DATE: 2000-02-01
; PRIOR APPLICATION NUMBER: 60/117,844
; PRIOR FILING DATE: 1999-01-29
; PRIOR APPLICATION NUMBER: 60/118,206,
; PRIOR FILING DATE: 1999-02-01
; PRIOR APPLICATION NUMBER: 60/126,593
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: 60/134,093
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: 60/134,092
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: 60/165,124
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/165,086
; PRIOR FILING DATE: 1999-11-12
; NUMBER OF SEQ ID NOS: 292
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 281
; LENGTH: 810
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-09-712-363-281

Query Match 72.3%; Score 34; DB 2; Length 810;
Best Local Similarity 77.8%; Pred. No. 2.1e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
:|||||| |
Db 134 STLEQQYVK 142

RESULT 28
US-09-562-737-42
; Sequence 42, Application US/09562737
; Patent No. 6428967
; GENERAL INFORMATION:
; APPLICANT: Herz, Joachim
; APPLICANT: Gotthardt, Michael
; TITLE OF INVENTION: LDL Receptor Signaling Pathways
; FILE REFERENCE: UTSW0708
; CURRENT APPLICATION NUMBER: US/09/562,737
; CURRENT FILING DATE: 2000-05-01
; NUMBER OF SEQ ID NOS: 132
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 42
; LENGTH: 1024
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Sequence
US-09-562-737-42

Query Match 72.3%; Score 34; DB 2; Length 1024;
Best Local Similarity 55.6%; Pred. No. 2.7e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
| ::||||:
Db 430 TVMQQQYNR 438

RESULT 29
US-09-562-737-43
; Sequence 43, Application US/09562737
; Patent No. 6428967
; GENERAL INFORMATION:
; APPLICANT: Herz, Joachim
; APPLICANT: Gotthardt, Michael
; TITLE OF INVENTION: LDL Receptor Signaling Pathways
; FILE REFERENCE: UTSW0708
; CURRENT APPLICATION NUMBER: US/09/562,737
; CURRENT FILING DATE: 2000-05-01
; NUMBER OF SEQ ID NOS: 132
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 43
; LENGTH: 1024
; TYPE: PRT

```
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;   OTHER INFORMATION: Sequence
US-09-562-737-43

  Query Match             72.3%;  Score 34;  DB 2;  Length 1024;
  Best Local Similarity   66.7%;  Pred. No. 2.7e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              | | ||||:
Db        430 TVLRQQYNR 438


RESULT 30
US-09-562-737-48
; Sequence 48, Application US/09562737
; Patent No. 6428967
; GENERAL INFORMATION:
;  APPLICANT:  Herz, Joachim
;  APPLICANT:  Gotthardt, Michael
;  TITLE OF INVENTION:  LDL Receptor Signaling Pathways
;  FILE REFERENCE:  UTSW0708
;  CURRENT APPLICATION NUMBER: US/09/562,737
;  CURRENT FILING DATE:  2000-05-01
;  NUMBER OF SEQ ID NOS:  132
;  SOFTWARE:  PatentIn Ver. 2.1
; SEQ ID NO 48
;   LENGTH: 1024
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;   OTHER INFORMATION: Sequence
US-09-562-737-48

  Query Match             72.3%;  Score 34;  DB 2;  Length 1024;
  Best Local Similarity   75.0%;  Pred. No. 2.7e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYN 8
              | |:||||
Db        430 TVLQQQYN 437


RESULT 31
US-09-248-796A-16048
; Sequence 16048, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 16048
;   LENGTH: 185
;   TYPE: PRT
;   ORGANISM: Candida albicans
US-09-248-796A-16048

  Query Match             68.1%;  Score 32;  DB 2;  Length 185;
  Best Local Similarity   85.7%;  Pred. No. 1.1e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 LEQQYNK 9
                || ||||
Db         87 LESQYNK 93


RESULT 32
US-09-934-066-2
; Sequence 2, Application US/09934066
; Patent No. 6855871
; GENERAL INFORMATION:
;  APPLICANT: Gruis, Darren B.
;  APPLICANT:  Jung, Rudolf
;  TITLE OF INVENTION: Methods of Increasing Polypeptide
;  TITLE OF INVENTION:  Accumulation in Plants
;  FILE REFERENCE: 35718/237251
;  CURRENT APPLICATION NUMBER: US/09/934,066
;  CURRENT FILING DATE:  2001-08-21
;  PRIOR APPLICATION NUMBER: US 60/226,804
;  PRIOR FILING DATE: 2000-08-21
;  NUMBER OF SEQ ID NOS: 3
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 466
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
US-09-934-066-2

  Query Match             68.1%;  Score 32;  DB 2;  Length 466;
  Best Local Similarity   85.7%;  Pred. No. 2.9e+02;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 TLEQQYN 8
              ||||||:
Db        275 TLEQQYH 281


RESULT 33
US-08-311-731A-33
; Sequence 33, Application US/08311731A
; Patent No. 6583266
;  GENERAL INFORMATION:
;    APPLICANT:  SMITH, DOUGLAS
;    APPLICANT:  MAO, JEN-I
;    TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES
;    TITLE OF INVENTION:  RELATING TO MYCOBACTERIUM TUBERCULOSIS AND LAPRAE FOR
;    TITLE OF INVENTION:  DIAGNOSTICS AND THERAPEUTICS
;    NUMBER OF SEQUENCES:  411
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  WOLF, GREENFIELD & SACKS, P.C.
;      STREET:  600 ATLANTIC AVENUE
;      CITY:  BOSTON
;      STATE:  MASSACHUSETTS
;      COUNTRY:  USA
;      ZIP:  02210
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/311,731A
;      FILING DATE:
;      CLASSIFICATION:  530
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  GATES, EDWARD R.
;      REGISTRATION NUMBER:  31,616
;      REFERENCE/DOCKET NUMBER:  C0044/7125
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617/720-3500
;      TELEFAX:  617/720-2441
;  INFORMATION FOR SEQ ID NO:  33:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  821 amino acids
;      TYPE:  amino acid
```

;  TOPOLOGY: linear
;  MOLECULE TYPE: protein
;  HYPOTHETICAL: YES
;  ORIGINAL SOURCE:
;  ORGANISM: MYCOBACTERIUM LEPRAE
US-08-311-731A-33

Query Match 68.1%; Score 32; DB 2; Length 821;
Best Local Similarity 66.7%; Pred. No. 5.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
:|:|||| |
Db 134 STIEQQYVK 142

RESULT 34
US-09-248-796A-27186
; Sequence 27186, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 27186
; LENGTH: 134
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-27186

Query Match 66.0%; Score 31; DB 2; Length 134;
Best Local Similarity 75.0%; Pred. No. 1.2e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TTLEQQYN 8
|| || ||
Db 85 TTREQHYN 92

RESULT 35
US-09-270-767-32262
; Sequence 32262, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 32262
; LENGTH: 137
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-32262

Query Match 66.0%; Score 31; DB 2; Length 137;
Best Local Similarity 62.5%; Pred. No. 1.3e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TTLEQQYN 8
| :|||:|
Db 102 TNIEQQFN 109

RESULT 36
US-09-270-767-47479
; Sequence 47479, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 47479
; LENGTH: 137
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-47479

Query Match 66.0%; Score 31; DB 2; Length 137;
Best Local Similarity 62.5%; Pred. No. 1.3e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TTLEQQYN 8
| :|||:|
Db 102 TNIEQQFN 109

RESULT 37
US-09-575-081B-23
; Sequence 23, Application US/09575081B
; Patent No. 6692934
; GENERAL INFORMATION:
; APPLICANT: BRISTOL-MYERS SQUIBB COMPANY
; TITLE OF INVENTION: NOVEL ORGANIC ANION TRANSPORT PROTEINS
; FILE REFERENCE: DB23
; CURRENT APPLICATION NUMBER: US/09/575,081B
; CURRENT FILING DATE: 2000-05-19
; PRIOR APPLICATION NUMBER: 60/135,081
; PRIOR FILING DATE: 1999-05-20
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 23
; LENGTH: 661
; TYPE: PRT
; ORGANISM: Rat
US-09-575-081B-23

Query Match 66.0%; Score 31; DB 2; Length 661;
Best Local Similarity 85.7%; Pred. No. 6.5e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 LEQQYNK 9
||||| |
Db 342 LEQQYGK 348

RESULT 38
US-09-575-081B-24
; Sequence 24, Application US/09575081B
; Patent No. 6692934
; GENERAL INFORMATION:
; APPLICANT: BRISTOL-MYERS SQUIBB COMPANY
; TITLE OF INVENTION: NOVEL ORGANIC ANION TRANSPORT PROTEINS
; FILE REFERENCE: DB23
; CURRENT APPLICATION NUMBER: US/09/575,081B
; CURRENT FILING DATE: 2000-05-19
; PRIOR APPLICATION NUMBER: 60/135,081
; PRIOR FILING DATE: 1999-05-20
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 24
; LENGTH: 670

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;   TYPE: PRT
;   ORGANISM: Rat
US-09-575-081B-24

  Query Match             66.0%;  Score 31;  DB 2;  Length 670;
  Best Local Similarity   85.7%;  Pred. No. 6.6e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 LEQQYNK 9
              ||||| |
Db        343 LEQQYGK 349


RESULT 39
US-09-575-081B-26
; Sequence 26, Application US/09575081B
; Patent No. 6692934
; GENERAL INFORMATION:
;  APPLICANT: BRISTOL-MYERS SQUIBB COMPANY
;  TITLE OF INVENTION: NOVEL ORGANIC ANION TRANSPORT PROTEINS
;  FILE REFERENCE: DB23
;  CURRENT APPLICATION NUMBER: US/09/575,081B
;  CURRENT FILING DATE:  2000-05-19
;  PRIOR APPLICATION NUMBER: 60/135,081
;  PRIOR FILING DATE: 1999-05-20
;  NUMBER OF SEQ ID NOS: 29
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 26
;   LENGTH: 670
;   TYPE: PRT
;   ORGANISM: Rat
US-09-575-081B-26

  Query Match             66.0%;  Score 31;  DB 2;  Length 670;
  Best Local Similarity   85.7%;  Pred. No. 6.6e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 LEQQYNK 9
              ||||| |
Db        343 LEQQYGK 349


RESULT 40
US-09-248-796A-19794
; Sequence 19794, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 19794
;   LENGTH: 684
;   TYPE: PRT
;   ORGANISM: Candida albicans
US-09-248-796A-19794

  Query Match             66.0%;  Score 31;  DB 2;  Length 684;
  Best Local Similarity   66.7%;  Pred. No. 6.7e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              ||||  ||:
Db        355 TTLESVYNE 363


RESULT 41
US-09-328-352-7498
; Sequence 7498, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton et al.
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
;  TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: GTC99-03PA
;  CURRENT APPLICATION NUMBER: US/09/328,352
;  CURRENT FILING DATE: 1999-06-04
;  NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 7498
;   LENGTH: 865
;   TYPE: PRT
;   ORGANISM: Acinetobacter baumannii
US-09-328-352-7498

  Query Match             66.0%;  Score 31;  DB 2;  Length 865;
  Best Local Similarity   66.7%;  Pred. No. 8.6e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              | |||||  :
Db        161 TELEQQYTQ 169


RESULT 42
US-09-949-016-7294
; Sequence 7294, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7294
;   LENGTH: 913
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-7294

  Query Match             66.0%;  Score 31;  DB 2;  Length 913;
  Best Local Similarity   55.6%;  Pred. No. 9.1e+02;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |:|:|:| |
Db        871 TSLQQEYKK 879


RESULT 43
US-09-248-796A-15156
; Sequence 15156, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
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;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 15156
;   LENGTH: 919
;   TYPE: PRT
;   ORGANISM: Candida albicans
US-09-248-796A-15156

  Query Match             66.0%;  Score 31;  DB 2;  Length 919;
  Best Local Similarity   75.0%;  Pred. No. 9.2e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 TLEQQYNK 9
              :|| ||||
Db        632 SLELQYNK 639


RESULT 44
US-09-562-737-44
; Sequence 44, Application US/09562737
; Patent No. 6428967
; GENERAL INFORMATION:
;  APPLICANT:  Herz, Joachim
;  APPLICANT:  Gotthardt, Michael
;  TITLE OF INVENTION:  LDL Receptor Signaling Pathways
;  FILE REFERENCE:  UTSW0708
;  CURRENT APPLICATION NUMBER: US/09/562,737
;  CURRENT FILING DATE:  2000-05-01
;  NUMBER OF SEQ ID NOS:  132
;  SOFTWARE:  PatentIn Ver. 2.1
; SEQ ID NO 44
;   LENGTH: 1024
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;   OTHER INFORMATION: Sequence
US-09-562-737-44

  Query Match             66.0%;  Score 31;  DB 2;  Length 1024;
  Best Local Similarity   55.6%;  Pred. No. 1e+03;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              | |: |||:
Db        430 TVLQMQYNR 438


RESULT 45
US-09-562-737-50
; Sequence 50, Application US/09562737
; Patent No. 6428967
; GENERAL INFORMATION:
;  APPLICANT:  Herz, Joachim
;  APPLICANT:  Gotthardt, Michael
;  TITLE OF INVENTION:  LDL Receptor Signaling Pathways
;  FILE REFERENCE:  UTSW0708
;  CURRENT APPLICATION NUMBER: US/09/562,737
;  CURRENT FILING DATE:  2000-05-01
;  NUMBER OF SEQ ID NOS:  132
;  SOFTWARE:  PatentIn Ver. 2.1
; SEQ ID NO 50
;   LENGTH: 1024
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;   OTHER INFORMATION: Sequence
US-09-562-737-50

  Query Match             66.0%;  Score 31;  DB 2;  Length 1024;
  Best Local Similarity   71.4%;  Pred. No. 1e+03;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 LEQQYNK 9
              |:||||:
Db        432 LQQQYNR 438


RESULT 46
US-09-914-259-24
; Sequence 24, Application US/09914259
; Patent No. 6495336
; GENERAL INFORMATION:
;  APPLICANT: Makowski, Lee
;  APPLICANT:  Hyman, Paul
;  APPLICANT:  Williams, Mark
;  TITLE OF INVENTION: STAGED ASSEMBLY OF NANOSTRUCTURES
;  FILE REFERENCE: 8471-010-999
;  CURRENT APPLICATION NUMBER: US/09/914,259
;  CURRENT FILING DATE:  2000-11-21
;  NUMBER OF SEQ ID NOS: 180
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 24
;   LENGTH: 1031
;   TYPE: PRT
;   ORGANISM: Strongylocentrotus purpuratus
US-09-914-259-24

  Query Match             66.0%;  Score 31;  DB 2;  Length 1031;
  Best Local Similarity   66.7%;  Pred. No. 1e+03;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              || |: |||
Db         55 TTQEEVYNK 63


RESULT 47
US-08-863-118-1
; Sequence 1, Application US/08863118A
; Patent No. 6015893
; GENERAL INFORMATION:
;  APPLICANT: CANCE, William G.
;  APPLICANT: LIU, Edison T.
;  APPLICANT: OWENS, Lewis V.
;  TITLE OF INVENTION: Oligonucleoside Compounds and Methods for Inhibiting
;  TITLE OF INVENTION: Tumor Growth, Invasion and Metastasis
;  FILE REFERENCE: 5470-90
;  CURRENT APPLICATION NUMBER: US/08/863,118A
;  CURRENT FILING DATE: 1997-05-27
;  EARLIER APPLICATION NUMBER: 08/276,843
;  EARLIER FILING DATE: 1994-07-18
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 1052
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-08-863-118-1

  Query Match             66.0%;  Score 31;  DB 2;  Length 1052;
  Best Local Similarity   55.6%;  Pred. No. 1.1e+03;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |:|:|:| |
Db       1010 TSLQQEYKK 1018


RESULT 48
US-08-863-118-2
; Sequence 2, Application US/08863118A
; Patent No. 6015893
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; GENERAL INFORMATION:
;  APPLICANT: CANCE, William G.
;  APPLICANT: LIU, Edison T.
;  APPLICANT: OWENS, Lewis V.
;  TITLE OF INVENTION: Oligonucleoside Compounds and Methods for Inhibiting
;  TITLE OF INVENTION: Tumor Growth, Invasion and Metastasis
;  FILE REFERENCE: 5470-90
;  CURRENT APPLICATION NUMBER: US/08/863,118A
;  CURRENT FILING DATE: 1997-05-27
;  EARLIER APPLICATION NUMBER: 08/276,843
;  EARLIER FILING DATE: 1994-07-18
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 1052
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-08-863-118-2

  Query Match             66.0%;  Score 31;  DB 2;  Length 1052;
  Best Local Similarity   55.6%;  Pred. No. 1.1e+03;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |:|:|:| |
Db       1010 TSLQQEYKK 1018


RESULT 49
US-09-377-310-2
; Sequence 2, Application US/09377310B
; Patent No. 6133031
; GENERAL INFORMATION:
;  APPLICANT: Monia, Brett P.
;  APPLICANT: Gaarde, William A.
;  TITLE OF INVENTION: Antisense Modulation of Focal Adhesion Kinase
;  TITLE OF INVENTION: Expression
;  FILE REFERENCE: ISPH-0389
;  CURRENT APPLICATION NUMBER: US/09/377,310B
;  CURRENT FILING DATE: 1999-08-19
;  NUMBER OF SEQ ID NOS: 43
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 1052
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-377-310-2

  Query Match             66.0%;  Score 31;  DB 2;  Length 1052;
  Best Local Similarity   55.6%;  Pred. No. 1.1e+03;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |:|:|:| |
Db       1010 TSLQQEYKK 1018


RESULT 50
US-08-863-118-3
; Sequence 3, Application US/08863118A
; Patent No. 6015893
; GENERAL INFORMATION:
;  APPLICANT: CANCE, William G.
;  APPLICANT: LIU, Edison T.
;  APPLICANT: OWENS, Lewis V.
;  TITLE OF INVENTION: Oligonucleoside Compounds and Methods for Inhibiting
;  TITLE OF INVENTION: Tumor Growth, Invasion and Metastasis
;  FILE REFERENCE: 5470-90
;  CURRENT APPLICATION NUMBER: US/08/863,118A
;  CURRENT FILING DATE: 1997-05-27
;  EARLIER APPLICATION NUMBER: 08/276,843
;  EARLIER FILING DATE: 1994-07-18
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
;   LENGTH: 1053
;   TYPE: PRT
;   ORGANISM: Gallus sp.
US-08-863-118-3

  Query Match             66.0%;  Score 31;  DB 2;  Length 1053;
  Best Local Similarity   55.6%;  Pred. No. 1.1e+03;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |:|:|:| |
Db       1011 TSLQQEYKK 1019


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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:44:45 ; Search time 55.9 Seconds
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67.271 Million cell updates/sec

Title: US-08-170-344-52
Perfect score: 47
Sequence: 1 TTLEQQYNK 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_Main:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
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| 1 | 47 | 100.0 | 9 | 5 | US-10-751-845-73 | Sequence 73, Appl |
| 2 | 47 | 100.0 | 10 | 5 | US-10-751-845-77 | Sequence 77, Appl |
| 3 | 47 | 100.0 | 15 | 4 | US-10-476-570-36 | Sequence 36, Appl |
| 4 | 47 | 100.0 | 15 | 4 | US-10-476-570-37 | Sequence 37, Appl |
| 5 | 47 | 100.0 | 20 | 4 | US-10-476-570-35 | Sequence 35, Appl |
| 6 | 47 | 100.0 | 23 | 5 | US-10-751-845-66 | Sequence 66, Appl |
| 7 | 47 | 100.0 | 29 | 4 | US-10-476-570-13 | Sequence 13, Appl |
| 8 | 47 | 100.0 | 29 | 4 | US-10-476-570-55 | Sequence 55, Appl |
| 9 | 47 | 100.0 | 29 | 5 | US-10-858-384-8 | Sequence 8, Appli |
| 10 | 47 | 100.0 | 117 | 5 | US-10-751-845-126 | Sequence 126, App |
| 11 | 47 | 100.0 | 151 | 4 | US-10-177-390-6 | Sequence 6, Appli |
| 12 | 47 | 100.0 | 151 | 5 | US-10-484-063-20 | Sequence 20, Appl |
| 13 | 47 | 100.0 | 151 | 5 | US-10-484-063-27 | Sequence 27, Appl |
| 14 | 47 | 100.0 | 158 | 5 | US-10-858-384-2 | Sequence 2, Appli |
| 15 | 47 | 100.0 | 158 | 5 | US-10-367-057-16 | Sequence 16, Appl |
| 16 | 47 | 100.0 | 158 | 6 | US-11-021-949-13 | Sequence 13, Appl |
| 17 | 47 | 100.0 | 171 | 4 | US-10-472-724-2 | Sequence 2, Appli |
| 18 | 47 | 100.0 | 236 | 5 | US-10-751-845-157 | Sequence 157, App |
| 19 | 47 | 100.0 | 237 | 5 | US-10-751-845-158 | Sequence 158, App |
| 20 | 47 | 100.0 | 243 | 6 | US-11-072-288-1 | Sequence 1, Appli |
| 21 | 47 | 100.0 | 261 | 5 | US-10-751-845-160 | Sequence 160, App |
| 22 | 47 | 100.0 | 266 | 3 | US-09-367-309A-1 | Sequence 1, Appli |
| 23 | 47 | 100.0 | 273 | 4 | US-10-000-903-4 | Sequence 4, Appli |
| 24 | 47 | 100.0 | 273 | 5 | US-10-899-771-4 | Sequence 4, Appli |
| 25 | 47 | 100.0 | 292 | 4 | US-10-000-903-10 | Sequence 10, Appl |
| 26 | 47 | 100.0 | 292 | 5 | US-10-899-771-10 | Sequence 10, Appl |
| 27 | 47 | 100.0 | 371 | 4 | US-10-000-903-6 | Sequence 6, Appli |
| 28 | 47 | 100.0 | 371 | 5 | US-10-899-771-6 | Sequence 6, Appli |
| 29 | 47 | 100.0 | 390 | 4 | US-10-000-903-14 | Sequence 14, Appl |
| 30 | 47 | 100.0 | 390 | 5 | US-10-899-771-14 | Sequence 14, Appl |
| 31 | 36 | 76.6 | 10 | 5 | US-10-751-845-90 | Sequence 90, Appl |
| 32 | 36 | 76.6 | 11 | 4 | US-10-432-688A-14 | Sequence 14, Appl |
| 33 | 36 | 76.6 | 300 | 5 | US-10-606-038-8 | Sequence 8, Appli |
| 34 | 36 | 76.6 | 336 | 3 | US-09-848-294-6 | Sequence 6, Appli |
| 35 | 36 | 76.6 | 336 | 4 | US-10-293-231-6 | Sequence 6, Appli |
| 36 | 36 | 76.6 | 450 | 5 | US-10-606-038-7 | Sequence 7, Appli |
| 37 | 36 | 76.6 | 1024 | 4 | US-10-211-962-41 | Sequence 41, Appl |
| 38 | 36 | 76.6 | 1024 | 4 | US-10-211-962-49 | Sequence 49, Appl |
| 39 | 36 | 76.6 | 2540 | 5 | US-10-606-038-6 | Sequence 6, Appli |
| 40 | 36 | 76.6 | 2541 | 4 | US-10-177-293-470 | Sequence 470, App |
| 41 | 36 | 76.6 | 2541 | 5 | US-10-719-993-535 | Sequence 535, App |
| 42 | 36 | 76.6 | 2541 | 5 | US-10-719-993-536 | Sequence 536, App |
| 43 | 36 | 76.6 | 2541 | 5 | US-10-287-436A-460 | Sequence 460, App |
| 44 | 36 | 76.6 | 2541 | 5 | US-10-287-436A-1259 | Sequence 1259, Ap |
| 45 | 35 | 74.5 | 109 | 4 | US-10-424-599-239661 | Sequence 239661, |
| 46 | 35 | 74.5 | 127 | 4 | US-10-424-599-239858 | Sequence 239858, |
| 47 | 35 | 74.5 | 136 | 4 | US-10-424-599-232289 | Sequence 232289, |
| 48 | 35 | 74.5 | 164 | 4 | US-10-424-599-264895 | Sequence 264895, |
| 49 | 35 | 74.5 | 187 | 4 | US-10-424-599-265261 | Sequence 265261, |
| 50 | 35 | 74.5 | 444 | 4 | US-10-282-122A-48442 | Sequence 48442, A |
| 51 | 35 | 74.5 | 549 | 4 | US-10-425-114-42671 | Sequence 42671, A |
| 52 | 35 | 74.5 | 659 | 4 | US-10-425-115-326098 | Sequence 326098, |
| 53 | 35 | 74.5 | 864 | 4 | US-10-424-599-266078 | Sequence 266078, |
| 54 | 35 | 74.5 | 1285 | 4 | US-10-424-599-265913 | Sequence 265913, |
| 55 | 34 | 72.3 | 101 | 4 | US-10-437-963-187299 | Sequence 187299, |
| 56 | 34 | 72.3 | 165 | 4 | US-10-424-599-190108 | Sequence 190108, |
| 57 | 34 | 72.3 | 188 | 3 | US-09-941-945A-2 | Sequence 2, Appli |
| 58 | 34 | 72.3 | 188 | 3 | US-09-738-626-4169 | Sequence 4169, Ap |
| 59 | 34 | 72.3 | 662 | 5 | US-10-450-763-34164 | Sequence 34164, A |
| 60 | 34 | 72.3 | 662 | 5 | US-10-450-763-45876 | Sequence 45876, A |
| 61 | 34 | 72.3 | 810 | 3 | US-09-712-363-281 | Sequence 281, App |
| 62 | 34 | 72.3 | 1024 | 4 | US-10-211-962-42 | Sequence 42, Appl |
| 63 | 34 | 72.3 | 1024 | 4 | US-10-211-962-43 | Sequence 43, Appl |
| 64 | 34 | 72.3 | 1024 | 4 | US-10-211-962-48 | Sequence 48, Appl |
| 65 | 33 | 70.2 | 50 | 4 | US-10-425-115-194019 | Sequence 194019, |
| 66 | 33 | 70.2 | 77 | 4 | US-10-425-115-303134 | Sequence 303134, |
| 67 | 33 | 70.2 | 100 | 4 | US-10-767-701-43682 | Sequence 43682, A |
| 68 | 33 | 70.2 | 117 | 4 | US-10-424-599-255003 | Sequence 255003, |
| 69 | 33 | 70.2 | 127 | 4 | US-10-424-599-169735 | Sequence 169735, |
| 70 | 33 | 70.2 | 136 | 4 | US-10-424-599-264009 | Sequence 264009, |
| 71 | 33 | 70.2 | 138 | 4 | US-10-276-774-1510 | Sequence 1510, Ap |
| 72 | 33 | 70.2 | 154 | 4 | US-10-437-963-120467 | Sequence 120467, |
| 73 | 33 | 70.2 | 220 | 4 | US-10-425-115-360693 | Sequence 360693, |
| 74 | 33 | 70.2 | 237 | 4 | US-10-424-599-218391 | Sequence 218391, |
| 75 | 33 | 70.2 | 237 | 4 | US-10-424-599-218396 | Sequence 218396, |
| 76 | 33 | 70.2 | 237 | 4 | US-10-437-963-120468 | Sequence 120468, |
| 77 | 33 | 70.2 | 237 | 4 | US-10-767-701-43681 | Sequence 43681, A |
| 78 | 33 | 70.2 | 237 | 4 | US-10-425-115-309303 | Sequence 309303, |
| 79 | 33 | 70.2 | 238 | 5 | US-10-739-930-9404 | Sequence 9404, Ap |
| 80 | 33 | 70.2 | 259 | 4 | US-10-425-114-60901 | Sequence 60901, A |
| 81 | 33 | 70.2 | 267 | 4 | US-10-425-114-62805 | Sequence 62805, A |
| 82 | 33 | 70.2 | 269 | 4 | US-10-425-114-70871 | Sequence 70871, A |
| 83 | 33 | 70.2 | 273 | 4 | US-10-425-114-59237 | Sequence 59237, A |
| 84 | 33 | 70.2 | 280 | 4 | US-10-425-114-66186 | Sequence 66186, A |
| 85 | 33 | 70.2 | 295 | 4 | US-10-425-115-309314 | Sequence 309314, |
| 86 | 33 | 70.2 | 339 | 4 | US-10-767-701-46428 | Sequence 46428, A |
| 87 | 33 | 70.2 | 437 | 4 | US-10-085-198-162 | Sequence 162, App |
| 88 | 33 | 70.2 | 482 | 4 | US-10-267-502-218 | Sequence 218, App |
| 89 | 33 | 70.2 | 482 | 6 | US-11-097-143-40980 | Sequence 40980, A |
| 90 | 33 | 70.2 | 506 | 4 | US-10-369-493-8796 | Sequence 8796, Ap |
| 91 | 33 | 70.2 | 568 | 4 | US-10-425-114-63265 | Sequence 63265, A |
| 92 | 33 | 70.2 | 571 | 4 | US-10-425-114-60176 | Sequence 60176, A |
| 93 | 33 | 70.2 | 578 | 4 | US-10-425-114-55113 | Sequence 55113, A |
| 94 | 33 | 70.2 | 579 | 4 | US-10-767-701-46167 | Sequence 46167, A |
| 95 | 33 | 70.2 | 579 | 4 | US-10-425-115-360694 | Sequence 360694, |
| 96 | 33 | 70.2 | 581 | 4 | US-10-437-963-120921 | Sequence 120921, |
| 97 | 33 | 70.2 | 581 | 5 | US-10-928-992-194 | Sequence 194, App |
| 98 | 33 | 70.2 | 583 | 4 | US-10-425-115-263753 | Sequence 263753, |
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| 101 | 33 | 70.2 | 586 | 4 | US-10-425-114-51093 | Sequence 51093, A |
| 102 | 33 | 70.2 | 588 | 4 | US-10-425-114-63013 | Sequence 63013, A |
| 103 | 33 | 70.2 | 590 | 4 | US-10-425-114-46950 | Sequence 46950, A |
| 104 | 33 | 70.2 | 590 | 4 | US-10-425-114-63159 | Sequence 63159, A |
| 105 | 33 | 70.2 | 591 | 5 | US-10-739-930-5596 | Sequence 5596, Ap |
| 106 | 33 | 70.2 | 600 | 4 | US-10-437-963-123759 | Sequence 123759, |
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| 108 | 33 | 70.2 | 626 | 4 | US-10-425-114-63250 | Sequence 63250, A |
| 109 | 33 | 70.2 | 652 | 4 | US-10-094-749-2199 | Sequence 2199, Ap |
| 110 | 33 | 70.2 | 808 | 4 | US-10-032-585-7388 | Sequence 7388, Ap |
| 111 | 33 | 70.2 | 967 | 6 | US-11-097-143-35754 | Sequence 35754, A |
| 112 | 33 | 70.2 | 1204 | 4 | US-10-437-963-131510 | Sequence 131510, |
| 113 | 33 | 70.2 | 1214 | 6 | US-11-097-143-3045 | Sequence 3045, Ap |
| 114 | 33 | 70.2 | 1390 | 4 | US-10-282-122A-63578 | Sequence 63578, A |
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| 117 | 32 | 68.1 | 164 | 4 | US-10-425-115-210677 | Sequence 210677, |
| 118 | 32 | 68.1 | 184 | 4 | US-10-425-115-267608 | Sequence 267608, |
| 119 | 32 | 68.1 | 204 | 4 | US-10-424-599-247466 | Sequence 247466, |
| 120 | 32 | 68.1 | 466 | 3 | US-09-934-066-2 | Sequence 2, Appli |
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| 122 | 32 | 68.1 | 580 | 4 | US-10-282-122A-46097 | Sequence 46097, A |
| 123 | 32 | 68.1 | 614 | 3 | US-09-890-688-18 | Sequence 18, Appl |
| 124 | 32 | 68.1 | 732 | 5 | US-10-450-763-47448 | Sequence 47448, A |
| 125 | 32 | 68.1 | 736 | 4 | US-10-437-963-173028 | Sequence 173028, |
| 126 | 32 | 68.1 | 759 | 4 | US-10-282-122A-46425 | Sequence 46425, A |
| 127 | 32 | 68.1 | 809 | 4 | US-10-282-122A-61637 | Sequence 61637, A |
| 128 | 32 | 68.1 | 820 | 4 | US-10-282-122A-46914 | Sequence 46914, A |
| 129 | 32 | 68.1 | 879 | 5 | US-10-732-923-6994 | Sequence 6994, Ap |
| 130 | 32 | 68.1 | 880 | 5 | US-10-732-923-7046 | Sequence 7046, Ap |
| 131 | 32 | 68.1 | 882 | 5 | US-10-732-923-7045 | Sequence 7045, Ap |
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| 133 | 32 | 68.1 | 950 | 4 | US-10-259-194A-58 | Sequence 58, Appl |
| 134 | 32 | 68.1 | 958 | 4 | US-10-369-493-2212 | Sequence 2212, Ap |
| 135 | 32 | 68.1 | 1086 | 4 | US-10-282-122A-74458 | Sequence 74458, A |
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| 139 | 31 | 66.0 | 67 | 4 | US-10-424-599-258142 | Sequence 258142, |
| 140 | 31 | 66.0 | 89 | 4 | US-10-424-599-154845 | Sequence 154845, |
| 141 | 31 | 66.0 | 94 | 4 | US-10-424-599-278296 | Sequence 278296, |
| 142 | 31 | 66.0 | 96 | 4 | US-10-437-963-202644 | Sequence 202644, |
| 143 | 31 | 66.0 | 98 | 4 | US-10-424-599-226558 | Sequence 226558, |
| 144 | 31 | 66.0 | 100 | 4 | US-10-424-599-241864 | Sequence 241864, |
| 145 | 31 | 66.0 | 116 | 4 | US-10-424-599-181871 | Sequence 181871, |
| 146 | 31 | 66.0 | 122 | 4 | US-10-424-599-266782 | Sequence 266782, |
| 147 | 31 | 66.0 | 124 | 4 | US-10-424-599-227587 | Sequence 227587, |
| 148 | 31 | 66.0 | 129 | 4 | US-10-424-599-254746 | Sequence 254746, |
| 149 | 31 | 66.0 | 134 | 4 | US-10-424-599-264428 | Sequence 264428, |
| 150 | 31 | 66.0 | 136 | 4 | US-10-424-599-264329 | Sequence 264329, |
| 151 | 31 | 66.0 | 139 | 4 | US-10-424-599-231827 | Sequence 231827, |
| 152 | 31 | 66.0 | 142 | 4 | US-10-424-599-265106 | Sequence 265106, |
| 153 | 31 | 66.0 | 147 | 4 | US-10-424-599-155400 | Sequence 155400, |
| 154 | 31 | 66.0 | 163 | 4 | US-10-424-599-264573 | Sequence 264573, |
| 155 | 31 | 66.0 | 165 | 4 | US-10-425-115-290340 | Sequence 290340, |
| 156 | 31 | 66.0 | 203 | 4 | US-10-425-115-332561 | Sequence 332561, |
| 157 | 31 | 66.0 | 234 | 4 | US-10-424-599-264861 | Sequence 264861, |
| 158 | 31 | 66.0 | 247 | 4 | US-10-424-599-265803 | Sequence 265803, |
| 159 | 31 | 66.0 | 248 | 4 | US-10-424-599-265470 | Sequence 265470, |
| 160 | 31 | 66.0 | 277 | 4 | US-10-282-122A-78175 | Sequence 78175, A |
| 161 | 31 | 66.0 | 341 | 6 | US-11-097-143-13608 | Sequence 13608, A |
| 162 | 31 | 66.0 | 360 | 3 | US-09-204-134-2 | Sequence 2, Appli |
| 163 | 31 | 66.0 | 362 | 4 | US-10-424-599-265891 | Sequence 265891, |
| 164 | 31 | 66.0 | 464 | 4 | US-10-369-493-1486 | Sequence 1486, Ap |
| 165 | 31 | 66.0 | 477 | 5 | US-10-796-907-130 | Sequence 130, App |
| 166 | 31 | 66.0 | 483 | 4 | US-10-282-122A-60648 | Sequence 60648, A |
| 167 | 31 | 66.0 | 492 | 4 | US-10-007-280A-212 | Sequence 212, App |
| 168 | 31 | 66.0 | 504 | 4 | US-10-437-963-148438 | Sequence 148438, |
| 169 | 31 | 66.0 | 522 | 4 | US-10-335-977-5571 | Sequence 5571, Ap |
| 170 | 31 | 66.0 | 523 | 4 | US-10-437-963-160722 | Sequence 160722, |
| 171 | 31 | 66.0 | 527 | 4 | US-10-335-977-5573 | Sequence 5573, Ap |
| 172 | 31 | 66.0 | 528 | 4 | US-10-335-977-5572 | Sequence 5572, Ap |
| 173 | 31 | 66.0 | 555 | 4 | US-10-424-599-265836 | Sequence 265836, |
| 174 | 31 | 66.0 | 588 | 4 | US-10-335-977-5574 | Sequence 5574, Ap |
| 175 | 31 | 66.0 | 628 | 5 | US-10-450-763-49240 | Sequence 49240, A |
| 176 | 31 | 66.0 | 645 | 4 | US-10-437-963-174703 | Sequence 174703, |
| 177 | 31 | 66.0 | 661 | 4 | US-10-205-219-27 | Sequence 27, Appl |
| 178 | 31 | 66.0 | 673 | 4 | US-10-282-122A-67382 | Sequence 67382, A |
| 179 | 31 | 66.0 | 741 | 4 | US-10-424-599-265847 | Sequence 265847, |
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| 181 | 31 | 66.0 | 750 | 4 | US-10-437-963-174699 | Sequence 174699, |
| 182 | 31 | 66.0 | 770 | 4 | US-10-437-963-137267 | Sequence 137267, |
| 183 | 31 | 66.0 | 801 | 6 | US-11-097-143-3762 | Sequence 3762, Ap |
| 184 | 31 | 66.0 | 879 | 4 | US-10-620-052A-6 | Sequence 6, Appli |
| 185 | 31 | 66.0 | 882 | 5 | US-10-732-923-6755 | Sequence 6755, Ap |
| 186 | 31 | 66.0 | 884 | 4 | US-10-282-122A-77937 | Sequence 77937, A |
| 187 | 31 | 66.0 | 889 | 3 | US-09-909-567B-44 | Sequence 44, Appl |
| 188 | 31 | 66.0 | 956 | 4 | US-10-363-616-407 | Sequence 407, App |
| 189 | 31 | 66.0 | 956 | 4 | US-10-408-765A-944 | Sequence 944, App |
| 190 | 31 | 66.0 | 973 | 6 | US-11-097-143-13281 | Sequence 13281, A |
| 191 | 31 | 66.0 | 992 | 4 | US-10-282-122A-74747 | Sequence 74747, A |
| 192 | 31 | 66.0 | 1016 | 4 | US-10-188-186-104 | Sequence 104, App |
| 193 | 31 | 66.0 | 1024 | 4 | US-10-211-962-44 | Sequence 44, Appl |
| 194 | 31 | 66.0 | 1024 | 4 | US-10-211-962-50 | Sequence 50, Appl |
| 195 | 31 | 66.0 | 1028 | 5 | US-10-732-923-13674 | Sequence 13674, A |
| 196 | 31 | 66.0 | 1031 | 4 | US-10-080-608A-24 | Sequence 24, Appl |
| 197 | 31 | 66.0 | 1031 | 4 | US-10-370-685-113 | Sequence 113, App |
| 198 | 31 | 66.0 | 1052 | 3 | US-09-757-100B-2 | Sequence 2, Appli |
| 199 | 31 | 66.0 | 1052 | 4 | US-10-394-322A-25 | Sequence 25, Appl |
| 200 | 31 | 66.0 | 1052 | 4 | US-10-646-569-2 | Sequence 2, Appli |
| 201 | 31 | 66.0 | 1053 | 5 | US-10-732-923-13673 | Sequence 13673, A |
| 202 | 31 | 66.0 | 1090 | 5 | US-10-606-038-11 | Sequence 11, Appl |
| 203 | 31 | 66.0 | 1141 | 5 | US-10-489-740-124 | Sequence 124, App |
| 204 | 31 | 66.0 | 1382 | 3 | US-09-729-653-2 | Sequence 2, Appli |
| 205 | 31 | 66.0 | 1456 | 4 | US-10-437-963-177264 | Sequence 177264, |
| 206 | 31 | 66.0 | 2146 | 6 | US-11-097-143-13743 | Sequence 13743, A |
| 207 | 31 | 66.0 | 2542 | 5 | US-10-479-764-2 | Sequence 2, Appli |
| 208 | 31 | 66.0 | 2545 | 4 | US-10-092-900A-76 | Sequence 76, Appl |
| 209 | 30 | 63.8 | 87 | 4 | US-10-437-963-149815 | Sequence 149815, |
| 210 | 30 | 63.8 | 98 | 2 | US-08-849-303-8 | Sequence 8, Appli |
| 211 | 30 | 63.8 | 98 | 3 | US-09-976-782-99 | Sequence 99, Appl |
| 212 | 30 | 63.8 | 98 | 3 | US-09-976-782-100 | Sequence 100, App |
| 213 | 30 | 63.8 | 98 | 4 | US-10-655-136-8 | Sequence 8, Appli |
| 214 | 30 | 63.8 | 100 | 3 | US-09-976-782-96 | Sequence 96, Appl |
| 215 | 30 | 63.8 | 102 | 4 | US-10-425-115-339646 | Sequence 339646, |
| 216 | 30 | 63.8 | 103 | 3 | US-09-815-242-5361 | Sequence 5361, Ap |
| 217 | 30 | 63.8 | 103 | 3 | US-09-782-974C-42 | Sequence 42, Appl |
| 218 | 30 | 63.8 | 103 | 5 | US-10-467-492A-42 | Sequence 42, Appl |
| 219 | 30 | 63.8 | 103 | 5 | US-10-975-979-42 | Sequence 42, Appl |
| 220 | 30 | 63.8 | 103 | 5 | US-10-969-727-42 | Sequence 42, Appl |
| 221 | 30 | 63.8 | 104 | 4 | US-10-424-599-245490 | Sequence 245490, |
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| 223 | 30 | 63.8 | 106 | 3 | US-09-815-242-12639 | Sequence 12639, A |
| 224 | 30 | 63.8 | 106 | 3 | US-09-815-242-12881 | Sequence 12881, A |
| 225 | 30 | 63.8 | 106 | 4 | US-10-282-122A-70972 | Sequence 70972, A |
| 226 | 30 | 63.8 | 112 | 4 | US-10-282-122A-44161 | Sequence 44161, A |
| 227 | 30 | 63.8 | 115 | 4 | US-10-724-972A-4107 | Sequence 4107, Ap |
| 228 | 30 | 63.8 | 117 | 4 | US-10-425-115-335334 | Sequence 335334, |
| 229 | 30 | 63.8 | 120 | 4 | US-10-437-963-184104 | Sequence 184104, |
| 230 | 30 | 63.8 | 126 | 4 | US-10-425-115-331239 | Sequence 331239, |
| 231 | 30 | 63.8 | 128 | 4 | US-10-437-963-158743 | Sequence 158743, |
| 232 | 30 | 63.8 | 140 | 4 | US-10-424-599-246599 | Sequence 246599, |
| 233 | 30 | 63.8 | 145 | 4 | US-10-424-599-195016 | Sequence 195016, |
| 234 | 30 | 63.8 | 148 | 4 | US-10-369-493-6995 | Sequence 6995, Ap |
| 235 | 30 | 63.8 | 148 | 4 | US-10-425-115-325843 | Sequence 325843, |
| 236 | 30 | 63.8 | 150 | 4 | US-10-724-972A-5995 | Sequence 5995, Ap |
| 237 | 30 | 63.8 | 162 | 4 | US-10-424-599-262860 | Sequence 262860, |
| 238 | 30 | 63.8 | 169 | 4 | US-10-425-115-245793 | Sequence 245793, |
| 239 | 30 | 63.8 | 215 | 4 | US-10-425-115-213818 | Sequence 213818, |
| 240 | 30 | 63.8 | 218 | 5 | US-10-831-070-140 | Sequence 140, App |
| 241 | 30 | 63.8 | 221 | 4 | US-10-425-115-360611 | Sequence 360611, |
| 242 | 30 | 63.8 | 229 | 4 | US-10-425-115-244552 | Sequence 244552, |
| 243 | 30 | 63.8 | 253 | 5 | US-10-501-282-6462 | Sequence 6462, Ap |
| 244 | 30 | 63.8 | 260 | 3 | US-09-925-301-1369 | Sequence 1369, Ap |
| 245 | 30 | 63.8 | 269 | 6 | US-11-097-143-8409 | Sequence 8409, Ap |
| 246 | 30 | 63.8 | 277 | 3 | US-09-825-886-26 | Sequence 26, Appl |

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| 247 | 30 | 63.8 | 277 | 5 | US-10-684-422-235 | Sequence 235, App |
| 248 | 30 | 63.8 | 277 | 5 | US-10-287-436A-416 | Sequence 416, App |
| 249 | 30 | 63.8 | 277 | 5 | US-10-287-436A-1113 | Sequence 1113, Ap |
| 250 | 30 | 63.8 | 290 | 5 | US-10-873-595-11 | Sequence 11, Appl |
| 251 | 30 | 63.8 | 302 | 4 | US-10-029-386-33745 | Sequence 33745, A |
| 252 | 30 | 63.8 | 304 | 4 | US-10-425-115-315906 | Sequence 315906, |
| 253 | 30 | 63.8 | 304 | 5 | US-10-450-763-53628 | Sequence 53628, A |
| 254 | 30 | 63.8 | 304 | 5 | US-10-450-763-53630 | Sequence 53630, A |
| 255 | 30 | 63.8 | 310 | 4 | US-10-469-061A-38 | Sequence 38, Appl |
| 256 | 30 | 63.8 | 323 | 5 | US-10-994-726-566 | Sequence 566, App |
| 257 | 30 | 63.8 | 331 | 4 | US-10-424-599-248039 | Sequence 248039, |
| 258 | 30 | 63.8 | 335 | 4 | US-10-424-599-264598 | Sequence 264598, |
| 259 | 30 | 63.8 | 342 | 5 | US-10-994-726-565 | Sequence 565, App |
| 260 | 30 | 63.8 | 374 | 4 | US-10-724-972A-6822 | Sequence 6822, Ap |
| 261 | 30 | 63.8 | 377 | 4 | US-10-424-599-262786 | Sequence 262786, |
| 262 | 30 | 63.8 | 380 | 4 | US-10-032-585-7514 | Sequence 7514, Ap |
| 263 | 30 | 63.8 | 447 | 5 | US-10-732-923-20250 | Sequence 20250, A |
| 264 | 30 | 63.8 | 461 | 4 | US-10-282-122A-51536 | Sequence 51536, A |
| 265 | 30 | 63.8 | 463 | 5 | US-10-450-763-47333 | Sequence 47333, A |
| 266 | 30 | 63.8 | 465 | 6 | US-11-097-143-27030 | Sequence 27030, A |
| 267 | 30 | 63.8 | 472 | 5 | US-10-732-923-1201 | Sequence 1201, Ap |
| 268 | 30 | 63.8 | 474 | 4 | US-10-424-599-248036 | Sequence 248036, |
| 269 | 30 | 63.8 | 480 | 5 | US-10-732-923-1202 | Sequence 1202, Ap |
| 270 | 30 | 63.8 | 524 | 4 | US-10-425-114-49087 | Sequence 49087, A |
| 271 | 30 | 63.8 | 531 | 4 | US-10-282-122A-63463 | Sequence 63463, A |
| 272 | 30 | 63.8 | 546 | 4 | US-10-369-493-1974 | Sequence 1974, Ap |
| 273 | 30 | 63.8 | 546 | 4 | US-10-451-467A-328 | Sequence 328, App |
| 274 | 30 | 63.8 | 565 | 4 | US-10-424-599-261377 | Sequence 261377, |
| 275 | 30 | 63.8 | 590 | 4 | US-10-425-115-328540 | Sequence 328540, |
| 276 | 30 | 63.8 | 639 | 4 | US-10-388-838-62 | Sequence 62, Appl |
| 277 | 30 | 63.8 | 643 | 4 | US-10-063-763-3 | Sequence 3, Appli |
| 278 | 30 | 63.8 | 643 | 4 | US-10-060-763-3 | Sequence 3, Appli |
| 279 | 30 | 63.8 | 643 | 4 | US-10-423-543-108 | Sequence 108, App |
| 280 | 30 | 63.8 | 655 | 4 | US-10-437-963-106548 | Sequence 106548, |
| 281 | 30 | 63.8 | 655 | 4 | US-10-388-838-60 | Sequence 60, Appl |
| 282 | 30 | 63.8 | 655 | 4 | US-10-388-838-64 | Sequence 64, Appl |
| 283 | 30 | 63.8 | 710 | 4 | US-10-101-921-6 | Sequence 6, Appli |
| 284 | 30 | 63.8 | 710 | 4 | US-10-736-936-6 | Sequence 6, Appli |
| 285 | 30 | 63.8 | 710 | 4 | US-10-768-158-20 | Sequence 20, Appl |
| 286 | 30 | 63.8 | 720 | 4 | US-10-437-963-167109 | Sequence 167109, |
| 287 | 30 | 63.8 | 787 | 6 | US-11-097-143-1350 | Sequence 1350, Ap |
| 288 | 30 | 63.8 | 787 | 6 | US-11-097-143-27021 | Sequence 27021, A |
| 289 | 30 | 63.8 | 787 | 6 | US-11-097-143-27024 | Sequence 27024, A |
| 290 | 30 | 63.8 | 787 | 6 | US-11-097-143-27027 | Sequence 27027, A |
| 291 | 30 | 63.8 | 795 | 4 | US-10-408-765A-1205 | Sequence 1205, Ap |
| 292 | 30 | 63.8 | 795 | 4 | US-10-416-330-34 | Sequence 34, Appl |
| 293 | 30 | 63.8 | 798 | 4 | US-10-369-493-3191 | Sequence 3191, Ap |
| 294 | 30 | 63.8 | 843 | 4 | US-10-437-963-117308 | Sequence 117308, |
| 295 | 30 | 63.8 | 905 | 3 | US-09-864-680-3 | Sequence 3, Appli |
| 296 | 30 | 63.8 | 973 | 5 | US-10-732-923-8887 | Sequence 8887, Ap |
| 297 | 30 | 63.8 | 976 | 4 | US-10-117-937-596 | Sequence 596, App |
| 298 | 30 | 63.8 | 976 | 4 | US-10-657-022-92 | Sequence 92, Appl |
| 299 | 30 | 63.8 | 976 | 6 | US-11-067-064-596 | Sequence 596, App |
| 300 | 30 | 63.8 | 976 | 6 | US-11-067-159-596 | Sequence 596, App |
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| 303 | 30 | 63.8 | 1017 | 4 | US-10-654-416-12 | Sequence 12, Appl |
| 304 | 30 | 63.8 | 1023 | 4 | US-10-654-416-14 | Sequence 14, Appl |
| 305 | 30 | 63.8 | 1027 | 4 | US-10-654-416-8 | Sequence 8, Appli |
| 306 | 30 | 63.8 | 1029 | 4 | US-10-654-416-6 | Sequence 6, Appli |
| 307 | 30 | 63.8 | 1029 | 5 | US-10-732-923-3308 | Sequence 3308, Ap |
| 308 | 30 | 63.8 | 1163 | 5 | US-10-732-923-8764 | Sequence 8764, Ap |
| 309 | 30 | 63.8 | 1229 | 4 | US-10-437-963-177927 | Sequence 177927, |
| 310 | 30 | 63.8 | 1251 | 6 | US-11-097-143-10554 | Sequence 10554, A |
| 311 | 30 | 63.8 | 1298 | 5 | US-10-732-923-8878 | Sequence 8878, Ap |
| 312 | 30 | 63.8 | 1327 | 4 | US-10-408-765A-1215 | Sequence 1215, Ap |
| 313 | 30 | 63.8 | 1501 | 5 | US-10-732-923-1749 | Sequence 1749, Ap |
| 314 | 30 | 63.8 | 1568 | 4 | US-10-087-192-1440 | Sequence 1440, Ap |
| 315 | 30 | 63.8 | 1568 | 4 | US-10-294-055-2 | Sequence 2, Appli |
| 316 | 30 | 63.8 | 1568 | 4 | US-10-170-385-63 | Sequence 63, Appl |
| 317 | 30 | 63.8 | 1568 | 4 | US-10-295-027-1290 | Sequence 1290, Ap |
| 318 | 30 | 63.8 | 1568 | 5 | US-10-473-127-1055 | Sequence 1055, Ap |
| 319 | 30 | 63.8 | 1568 | 5 | US-10-473-127-1056 | Sequence 1056, Ap |
| 320 | 30 | 63.8 | 1568 | 5 | US-10-473-127-1057 | Sequence 1057, Ap |
| 321 | 30 | 63.8 | 1568 | 5 | US-10-473-127-1058 | Sequence 1058, Ap |
| 322 | 30 | 63.8 | 1568 | 5 | US-10-473-127-1059 | Sequence 1059, Ap |
| 323 | 30 | 63.8 | 1568 | 5 | US-10-473-127-1060 | Sequence 1060, Ap |
| 324 | 30 | 63.8 | 1568 | 5 | US-10-473-127-1061 | Sequence 1061, Ap |
| 325 | 30 | 63.8 | 1568 | 5 | US-10-473-127-1062 | Sequence 1062, Ap |
| 326 | 30 | 63.8 | 1568 | 5 | US-10-473-127-1063 | Sequence 1063, Ap |
| 327 | 30 | 63.8 | 1568 | 5 | US-10-482-029-227 | Sequence 227, App |
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| 332 | 30 | 63.8 | 2288 | 5 | US-10-934-998-100 | Sequence 100, App |
| 333 | 30 | 63.8 | 2337 | 5 | US-10-732-923-8888 | Sequence 8888, Ap |
| 334 | 30 | 63.8 | 2375 | 4 | US-10-408-765A-277 | Sequence 277, App |
| 335 | 30 | 63.8 | 2375 | 5 | US-10-732-923-8880 | Sequence 8880, Ap |
| 336 | 30 | 63.8 | 2375 | 5 | US-10-732-923-8881 | Sequence 8881, Ap |
| 337 | 30 | 63.8 | 2454 | 5 | US-10-732-923-8884 | Sequence 8884, Ap |
| 338 | 30 | 63.8 | 2492 | 4 | US-10-697-526-2 | Sequence 2, Appli |
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| 340 | 30 | 63.8 | 2492 | 5 | US-10-732-923-8883 | Sequence 8883, Ap |
| 341 | 30 | 63.8 | 2492 | 5 | US-10-934-998-76 | Sequence 76, Appl |
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| 388 | 29 | 61.7 | 201 | 5 | US-10-472-533-558 | Sequence 558, App |
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| 466 | 29 | 61.7 | 504 | 4 | US-10-425-114-65755 | Sequence 65755, A |
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| 488 | 29 | 61.7 | 690 | 5 | US-10-927-588-2 | Sequence 2, Appli |
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| 492 | 29 | 61.7 | 716 | 4 | US-10-040-430-46 | Sequence 46, Appl |
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| 512 | 29 | 61.7 | 850 | 5 | US-10-952-045-96 | Sequence 96, Appl |
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| 515 | 29 | 61.7 | 859 | 5 | US-10-952-045-108 | Sequence 108, App |
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| 524 | 29 | 61.7 | 928 | 4 | US-10-369-493-1750 | Sequence 1750, Ap |
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| 526 | 29 | 61.7 | 956 | 4 | US-10-080-608A-17 | Sequence 17, Appl |
| 527 | 29 | 61.7 | 956 | 4 | US-10-370-685-106 | Sequence 106, App |
| 528 | 29 | 61.7 | 957 | 4 | US-10-080-608A-16 | Sequence 16, Appl |
| 529 | 29 | 61.7 | 957 | 4 | US-10-370-685-105 | Sequence 105, App |
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| 545 | 29 | 61.7 | 1328 | 4 | US-10-083-357-1287 | Sequence 1287, Ap |
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| 547 | 29 | 61.7 | 1328 | 4 | US-10-083-357-1296 | Sequence 1296, Ap |
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| 549 | 29 | 61.7 | 1328 | 4 | US-10-083-357-1323 | Sequence 1323, Ap |
| 550 | 29 | 61.7 | 1328 | 4 | US-10-083-357-1345 | Sequence 1345, Ap |
| 551 | 29 | 61.7 | 1329 | 4 | US-10-083-357-1346 | Sequence 1346, Ap |
| 552 | 29 | 61.7 | 1347 | 4 | US-10-083-357-1286 | Sequence 1286, Ap |
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| 556 | 29 | 61.7 | 1354 | 4 | US-10-267-502-341 | Sequence 341, App |
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| 561 | 29 | 61.7 | 1661 | 4 | US-10-425-115-337705 | Sequence 337705, |
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| 585 | 28 | 59.6 | 20 | 5 | US-10-484-063-8 | Sequence 8, Appli |
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| 597 | 28 | 59.6 | 58 | 4 | US-10-807-856-216 | Sequence 216, App |
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| 622 | 28 | 59.6 | 107 | 4 | US-10-737-252-114 | Sequence 114, App |
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| 655 | 28 | 59.6 | 173 | 4 | US-10-736-997-181 | Sequence 181, App |
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| 683 | 28 | 59.6 | 251 | 3 | US-09-971-536-63 | Sequence 63, Appl |
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| 816 | 28 | 59.6 | 336 | 4 | US-10-187-885-182 | Sequence 182, App |
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| 818 | 28 | 59.6 | 336 | 4 | US-10-199-464-182 | Sequence 182, App |
| 819 | 28 | 59.6 | 336 | 4 | US-10-196-756-182 | Sequence 182, App |
| 820 | 28 | 59.6 | 336 | 4 | US-10-176-751-182 | Sequence 182, App |
| 821 | 28 | 59.6 | 336 | 4 | US-10-176-760-182 | Sequence 182, App |
| 822 | 28 | 59.6 | 336 | 4 | US-10-176-990-182 | Sequence 182, App |
| 823 | 28 | 59.6 | 336 | 4 | US-10-180-541-182 | Sequence 182, App |
| 824 | 28 | 59.6 | 336 | 4 | US-10-180-542-182 | Sequence 182, App |
| 825 | 28 | 59.6 | 336 | 4 | US-10-180-548-182 | Sequence 182, App |
| 826 | 28 | 59.6 | 336 | 4 | US-10-180-551-182 | Sequence 182, App |
| 827 | 28 | 59.6 | 336 | 4 | US-10-180-998-182 | Sequence 182, App |
| 828 | 28 | 59.6 | 336 | 4 | US-10-180-999-182 | Sequence 182, App |
| 829 | 28 | 59.6 | 336 | 4 | US-10-183-013-182 | Sequence 182, App |
| 830 | 28 | 59.6 | 336 | 4 | US-10-184-612-182 | Sequence 182, App |

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| 831 | 28 | 59.6 | 336 | 4 | US-10-184-616-182 | Sequence 182, App |
| 832 | 28 | 59.6 | 336 | 4 | US-10-184-617-182 | Sequence 182, App |
| 833 | 28 | 59.6 | 336 | 4 | US-10-184-622-182 | Sequence 182, App |
| 834 | 28 | 59.6 | 336 | 4 | US-10-184-628-182 | Sequence 182, App |
| 835 | 28 | 59.6 | 336 | 4 | US-10-184-629-182 | Sequence 182, App |
| 836 | 28 | 59.6 | 336 | 4 | US-10-184-630-182 | Sequence 182, App |
| 837 | 28 | 59.6 | 336 | 4 | US-10-184-631-182 | Sequence 182, App |
| 838 | 28 | 59.6 | 336 | 4 | US-10-184-632-182 | Sequence 182, App |
| 839 | 28 | 59.6 | 336 | 4 | US-10-184-636-182 | Sequence 182, App |
| 840 | 28 | 59.6 | 336 | 4 | US-10-184-640-182 | Sequence 182, App |
| 841 | 28 | 59.6 | 336 | 4 | US-10-184-650-182 | Sequence 182, App |
| 842 | 28 | 59.6 | 336 | 4 | US-10-184-651-182 | Sequence 182, App |
| 843 | 28 | 59.6 | 336 | 4 | US-10-187-588-182 | Sequence 182, App |
| 844 | 28 | 59.6 | 336 | 4 | US-10-187-597-182 | Sequence 182, App |
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| 853 | 28 | 59.6 | 336 | 4 | US-10-187-747-182 | Sequence 182, App |
| 854 | 28 | 59.6 | 336 | 4 | US-10-187-751-182 | Sequence 182, App |
| 855 | 28 | 59.6 | 336 | 4 | US-10-187-753-182 | Sequence 182, App |
| 856 | 28 | 59.6 | 336 | 4 | US-10-187-754-182 | Sequence 182, App |
| 857 | 28 | 59.6 | 336 | 4 | US-10-187-757-182 | Sequence 182, App |
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| 866 | 28 | 59.6 | 336 | 4 | US-10-195-897-182 | Sequence 182, App |
| 867 | 28 | 59.6 | 336 | 4 | US-10-195-901-182 | Sequence 182, App |
| 868 | 28 | 59.6 | 336 | 4 | US-10-195-902-182 | Sequence 182, App |
| 869 | 28 | 59.6 | 336 | 4 | US-10-196-743-182 | Sequence 182, App |
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| 871 | 28 | 59.6 | 336 | 4 | US-10-173-708-182 | Sequence 182, App |
| 872 | 28 | 59.6 | 336 | 4 | US-10-176-479-182 | Sequence 182, App |
| 873 | 28 | 59.6 | 336 | 4 | US-10-176-748-182 | Sequence 182, App |
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| 885 | 28 | 59.6 | 336 | 4 | US-10-184-618-182 | Sequence 182, App |
| 886 | 28 | 59.6 | 336 | 4 | US-10-184-625-182 | Sequence 182, App |
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| 889 | 28 | 59.6 | 336 | 4 | US-10-184-645-182 | Sequence 182, App |
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| 891 | 28 | 59.6 | 336 | 4 | US-10-184-655-182 | Sequence 182, App |
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| 897 | 28 | 59.6 | 336 | 4 | US-10-197-695-182 | Sequence 182, App |
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| 910 | 28 | 59.6 | 336 | 4 | US-10-184-615-182 | Sequence 182, App |
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| 922 | 28 | 59.6 | 336 | 4 | US-10-194-394-182 | Sequence 182, App |
| 923 | 28 | 59.6 | 336 | 4 | US-10-194-425-182 | Sequence 182, App |
| 924 | 28 | 59.6 | 336 | 4 | US-10-194-485-182 | Sequence 182, App |
| 925 | 28 | 59.6 | 336 | 4 | US-10-195-885-182 | Sequence 182, App |
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| 931 | 28 | 59.6 | 336 | 4 | US-10-197-705-182 | Sequence 182, App |
| 932 | 28 | 59.6 | 336 | 4 | US-10-197-708-182 | Sequence 182, App |
| 933 | 28 | 59.6 | 336 | 4 | US-10-198-764-182 | Sequence 182, App |
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| 944 | 28 | 59.6 | 336 | 4 | US-10-199-666-182 | Sequence 182, App |
| 945 | 28 | 59.6 | 336 | 4 | US-10-199-669-182 | Sequence 182, App |
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| 947 | 28 | 59.6 | 336 | 4 | US-10-201-770-182 | Sequence 182, App |
| 948 | 28 | 59.6 | 336 | 4 | US-10-201-855-182 | Sequence 182, App |
| 949 | 28 | 59.6 | 336 | 4 | US-10-201-856-182 | Sequence 182, App |
| 950 | 28 | 59.6 | 336 | 4 | US-10-202-469-182 | Sequence 182, App |
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| 957 | 28 | 59.6 | 336 | 4 | US-10-205-504-182 | Sequence 182, App |
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| 961 | 28 | 59.6 | 336 | 4 | US-10-205-900-182 | Sequence 182, App |
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| 965 | 28 | 59.6 | 336 | 4 | US-10-184-621-182 | Sequence 182, App |
| 966 | 28 | 59.6 | 336 | 4 | US-10-184-638-182 | Sequence 182, App |
| 967 | 28 | 59.6 | 336 | 4 | US-10-187-752-182 | Sequence 182, App |
| 968 | 28 | 59.6 | 336 | 4 | US-10-187-887-182 | Sequence 182, App |
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| 973 | 28 | 59.6 | 336 | 4 | US-10-197-697-182 | Sequence 182, App |
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| 978 | 28 | 59.6 | 336 | 4 | US-10-199-462-182 | Sequence 182, App |
| 979 | 28 | 59.6 | 336 | 4 | US-10-201-324-182 | Sequence 182, App |
| 980 | 28 | 59.6 | 336 | 4 | US-10-201-328-182 | Sequence 182, App |
| 981 | 28 | 59.6 | 336 | 4 | US-10-201-527-182 | Sequence 182, App |
| 982 | 28 | 59.6 | 336 | 4 | US-10-201-528-182 | Sequence 182, App |
| 983 | 28 | 59.6 | 336 | 4 | US-10-201-529-182 | Sequence 182, App |
| 984 | 28 | 59.6 | 336 | 4 | US-10-201-530-182 | Sequence 182, App |
| 985 | 28 | 59.6 | 336 | 4 | US-10-202-408-182 | Sequence 182, App |
| 986 | 28 | 59.6 | 336 | 4 | US-10-202-409-182 | Sequence 182, App |
| 987 | 28 | 59.6 | 336 | 4 | US-10-202-411-182 | Sequence 182, App |
| 988 | 28 | 59.6 | 336 | 4 | US-10-202-472-182 | Sequence 182, App |
| 989 | 28 | 59.6 | 336 | 4 | US-10-205-502-182 | Sequence 182, App |
| 990 | 28 | 59.6 | 336 | 4 | US-10-205-507-182 | Sequence 182, App |
| 991 | 28 | 59.6 | 336 | 4 | US-10-205-511-182 | Sequence 182, App |
| 992 | 28 | 59.6 | 336 | 4 | US-10-205-902-182 | Sequence 182, App |
| 993 | 28 | 59.6 | 336 | 4 | US-10-205-907-182 | Sequence 182, App |
| 994 | 28 | 59.6 | 336 | 4 | US-10-167-749-303 | Sequence 303, App |
| 995 | 28 | 59.6 | 336 | 4 | US-10-176-484-182 | Sequence 182, App |
| 996 | 28 | 59.6 | 336 | 4 | US-10-194-456-182 | Sequence 182, App |
| 997 | 28 | 59.6 | 336 | 4 | US-10-196-758-182 | Sequence 182, App |
| 998 | 28 | 59.6 | 336 | 4 | US-10-198-770-182 | Sequence 182, App |
| 999 | 28 | 59.6 | 336 | 4 | US-10-199-308-182 | Sequence 182, App |
| 1000 | 28 | 59.6 | 336 | 4 | US-10-200-617-182 | Sequence 182, App |

ALIGNMENTS

RESULT 1
US-10-751-845-73
; Sequence 73, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 73
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-73

Query Match 100.0%; Score 47; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
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Db 1 TTLEQQYNK 9

RESULT 2
US-10-751-845-77
; Sequence 77, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 77
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-77

Query Match 100.0%; Score 47; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.035;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
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Db 2 TTLEQQYNK 10

RESULT 3
US-10-476-570-36
; Sequence 36, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 89-103
US-10-476-570-36

Query Match 100.0%; Score 47; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.054;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
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Db 5 TTLEQQYNK 13

RESULT 4
US-10-476-570-37
; Sequence 37, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard

```
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 37
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 93-107
US-10-476-570-37

  Query Match             100.0%;  Score 47;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.054;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db          1 TTLEQQYNK 9


RESULT 5
US-10-476-570-35
; Sequence 35, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 91-110
US-10-476-570-35

  Query Match             100.0%;  Score 47;  DB 4;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.073;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db          3 TTLEQQYNK 11


RESULT 6
US-10-751-845-66
; Sequence 66, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 66
;   LENGTH: 23
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-66

  Query Match             100.0%;  Score 47;  DB 5;  Length 23;
  Best Local Similarity   100.0%;  Pred. No. 0.084;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db         15 TTLEQQYNK 23


RESULT 7
US-10-476-570-13
; Sequence 13, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
;   LENGTH: 29
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 91-119
US-10-476-570-13

  Query Match             100.0%;  Score 47;  DB 4;  Length 29;
  Best Local Similarity   100.0%;  Pred. No. 0.11;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db          3 TTLEQQYNK 11


RESULT 8
US-10-476-570-55
```

; Sequence 55, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 55
; LENGTH: 29
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 80-108
US-10-476-570-55

Query Match 100.0%; Score 47; DB 4; Length 29;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
||||||||| 
Db 14 TTLEQQYNK 22

RESULT 9
US-10-858-384-8
; Sequence 8, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 8
; LENGTH: 29
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
; OTHER INFORMATION: for E6 of HPV
US-10-858-384-8

Query Match 100.0%; Score 47; DB 5; Length 29;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
||||||||| 
Db 14 TTLEQQYNK 22

RESULT 10
US-10-751-845-126
; Sequence 126, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-126

Query Match 100.0%; Score 47; DB 5; Length 117;
Best Local Similarity 100.0%; Pred. No. 0.47;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
||||||||| 
Db 59 TTLEQQYNK 67

RESULT 11
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
; APPLICANT: N.V. Antwerps Innovatiecentrum
; TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
; TITLE OF INVENTION: Polynucleotides by Electroporation
; FILE REFERENCE: 021505wo/JH/ml
; CURRENT APPLICATION NUMBER: US/10/177,390
; CURRENT FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-177-390-6

Query Match 100.0%; Score 47; DB 4; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.61;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
||||||||| 
Db 86 TTLEQQYNK 94

RESULT 12
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:

; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-20

Query Match 100.0%; Score 47; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.61;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
||||||||| 
Db 86 TTLEQQYNK 94

RESULT 13
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-27

Query Match 100.0%; Score 47; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.61;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
||||||||| 
Db 86 TTLEQQYNK 94

RESULT 14
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-858-384-2

Query Match 100.0%; Score 47; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.64;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
||||||||| 
Db 93 TTLEQQYNK 101

RESULT 15
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
; APPLICANT: Cuthill, Scott;
; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; APPLICANT: Ooi, Chean Eng
; TITLE OF INVENTION: Complexes and Methods of Using Same
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/256,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 16
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-367-057-16

Query Match 100.0%; Score 47; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.64;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
||||||||| 
Db 93 TTLEQQYNK 101

RESULT 16
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373

```
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
;    LENGTH: 158
;    TYPE: PRT
;    ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

  Query Match             100.0%;  Score 47;  DB 6;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.64;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db         93 TTLEQQYNK 101


RESULT 17
US-10-472-724-2
; Sequence 2, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
;  APPLICANT: Cid-Arregui, Angel
;  APPLICANT:  Zur Hausen, Harald
;  TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
;  FILE REFERENCE: 4121-154
;  CURRENT APPLICATION NUMBER: US/10/472,724
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP02/03271
;  PRIOR FILING DATE: 2002-03-22
;  PRIOR APPLICATION NUMBER: EP 01107271.7
;  PRIOR FILING DATE: 2001-03-23
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
;    LENGTH: 171
;    TYPE: PRT
;    ORGANISM: Artificial Sequence
;    FEATURE:
;    OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

  Query Match             100.0%;  Score 47;  DB 4;  Length 171;
  Best Local Similarity   100.0%;  Pred. No. 0.7;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db         98 TTLEQQYNK 106


RESULT 18
US-10-751-845-157
; Sequence 157, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 157
;    LENGTH: 236
;    TYPE: PRT
;    ORGANISM: Artificial Sequence
;    FEATURE:
;    OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157

  Query Match             100.0%;  Score 47;  DB 5;  Length 236;
  Best Local Similarity   100.0%;  Pred. No. 0.98;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db         59 TTLEQQYNK 67


RESULT 19
US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 158
;    LENGTH: 237
;    TYPE: PRT
;    ORGANISM: Artificial Sequence
;    FEATURE:
;    OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158

  Query Match             100.0%;  Score 47;  DB 5;  Length 237;
  Best Local Similarity   100.0%;  Pred. No. 0.99;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db         60 TTLEQQYNK 68


RESULT 20
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
;  APPLICANT: KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE: 017753-122
;  CURRENT APPLICATION NUMBER: US/11/072,288
;  CURRENT FILING DATE:  2005-03-07
;  PRIOR APPLICATION NUMBER: US/09/462,993
;  PRIOR FILING DATE: 2000-04-17
;  PRIOR APPLICATION NUMBER: PCT/FR98/01576
;  PRIOR FILING DATE: 1998-07-17
;  PRIOR APPLICATION NUMBER: FR 97/09152
;  PRIOR FILING DATE: 1997-07-18
;  NUMBER OF SEQ ID NOS: 23
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```
;  SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

  Query Match            100.0%;  Score 47;  DB 6;  Length 243;
  Best Local Similarity   100.0%;  Pred. No. 1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db        121 TTLEQQYNK 129


RESULT 21
US-10-751-845-160
; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 160
;   LENGTH: 261
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160

  Query Match            100.0%;  Score 47;  DB 5;  Length 261;
  Best Local Similarity   100.0%;  Pred. No. 1.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db         84 TTLEQQYNK 92


RESULT 22
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match            100.0%;  Score 47;  DB 3;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 1.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db         93 TTLEQQYNK 101


RESULT 23
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-4

  Query Match            100.0%;  Score 47;  DB 4;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 1.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db        199 TTLEQQYNK 207


RESULT 24
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
```

; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
; OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-4

Query Match 100.0%; Score 47; DB 5; Length 273;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
||||||||||
Db 199 TTLEQQYNK 207

RESULT 25
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-10

Query Match 100.0%; Score 47; DB 4; Length 292;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
||||||||||
Db 218 TTLEQQYNK 226

RESULT 26
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-10

Query Match 100.0%; Score 47; DB 5; Length 292;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
||||||||||
Db 218 TTLEQQYNK 226

RESULT 27
US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-6

Query Match 100.0%; Score 47; DB 4; Length 371;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
||||||||||
Db 199 TTLEQQYNK 207

RESULT 28
US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
; OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-6

Query Match 100.0%; Score 47; DB 5; Length 371;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
||||||||| 
Db 199 TTLEQQYNK 207

RESULT 29
US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-14

Query Match 100.0%; Score 47; DB 4; Length 390;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
||||||||| 
Db 218 TTLEQQYNK 226

RESULT 30
US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-14

Query Match 100.0%; Score 47; DB 5; Length 390;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
||||||||| 
Db 218 TTLEQQYNK 226

RESULT 31
US-10-751-845-90
; Sequence 90, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 90
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-90

Query Match 76.6%; Score 36; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 4.1;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTLEQQY 7
||||||| 
Db 4 TTLEQQY 10

RESULT 32
US-10-432-688A-14
; Sequence 14, Application US/10432688A
; Publication No. US20040180395A1
; GENERAL INFORMATION:
; APPLICANT: Genethon III
; APPLICANT: Richard, Isabelle
; APPLICANT: Sillon, Guillaume
; TITLE OF INVENTION: METHOD FOR DETECTING CALPAIN 3 ACTIVITY IN A BIOLOGICAL SAMPLE, A
; TITLE OF INVENTION: PEPTIDES FOR IMPLEMENTING SAID METHOD.
; FILE REFERENCE: LAUR-0003
; CURRENT APPLICATION NUMBER: US/10/432,688A
; CURRENT FILING DATE: 2003-05-27
; PRIOR APPLICATION NUMBER: FR0108614
; PRIOR FILING DATE: 2001-06-29
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 14

```
;   LENGTH: 11
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: human talin
US-10-432-688A-14

  Query Match             76.6%;  Score 36;  DB 4;  Length 11;
  Best Local Similarity   66.7%;  Pred. No. 4.5;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              | |:||||:
Db          3 TVLQQQYNR 11


RESULT 33
US-10-606-038-8
; Sequence 8, Application US/10606038
; Publication No. US20040265295A1
; GENERAL INFORMATION:
;  APPLICANT: Anderson, Richard A.
;  APPLICANT:  Ling, Kun
;  APPLICANT:  Doughman, Renee L.
;  TITLE OF INVENTION: METHODS OF PREVENTING OR TREATING CELL-MIGRATION MEDIATED CONDITI
;  TITLE OF INVENTION:  DISEASES
;  FILE REFERENCE: WARF-0015
;  CURRENT APPLICATION NUMBER: US/10/606,038
;  CURRENT FILING DATE:  2003-06-25
;  NUMBER OF SEQ ID NOS: 29
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8
;   LENGTH: 300
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-606-038-8

  Query Match             76.6%;  Score 36;  DB 5;  Length 300;
  Best Local Similarity   66.7%;  Pred. No. 1.5e+02;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              | |:||||:
Db        280 TVLQQQYNR 288


RESULT 34
US-09-848-294-6
; Sequence 6, Application US/09848294
; Patent No. US20020049179A1
; GENERAL INFORMATION:
;  APPLICANT: Tonks, Nicholas K.
;  TITLE OF INVENTION: Isolation of A cDNA Encoding A No. US20020049179A1el
;  TITLE OF INVENTION:  Protein Tyrosine Phosphotase Which Localizes to Focal
;  TITLE OF INVENTION:  Adhesions and Uses Therefor
;  FILE REFERENCE: CSHL90-04FZA
;  CURRENT APPLICATION NUMBER: US/09/848,294
;  CURRENT FILING DATE:  2001-05-03
;  PRIOR APPLICATION NUMBER: 09/235,251
;  PRIOR FILING DATE: 1999-01-22
;  PRIOR APPLICATION NUMBER: 08/759,536
;  PRIOR FILING DATE: 1996-12-04
;  PRIOR APPLICATION NUMBER: 08/107,420
;  PRIOR FILING DATE: 1993-08-16
;  PRIOR APPLICATION NUMBER: 07/663,579
;  PRIOR FILING DATE: 1991-03-01
;  PRIOR APPLICATION NUMBER: 07/494,036
;  PRIOR FILING DATE: 1990-03-14
;  NUMBER OF SEQ ID NOS: 13
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 336
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-09-848-294-6

  Query Match             76.6%;  Score 36;  DB 3;  Length 336;
  Best Local Similarity   66.7%;  Pred. No. 1.7e+02;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              | |:||||:
Db        311 TVLQQQYNR 319


RESULT 35
US-10-293-231-6
; Sequence 6, Application US/10293231
; Publication No. US20030113294A1
; GENERAL INFORMATION:
;  APPLICANT: Tonks, Nicholas K.
;  TITLE OF INVENTION: ISOLATION OF A cDNA ENCODING A NOVEL
;  TITLE OF INVENTION:  PROTEIN TYROSINE PHOSPHATASE WHICH LOCALIZES
;  TITLE OF INVENTION:  TO FOCAL ADHESIONS AND USES THEREOF
;  FILE REFERENCE: 200125.409C3
;  CURRENT APPLICATION NUMBER: US/10/293,231
;  CURRENT FILING DATE:  2002-11-12
;  NUMBER OF SEQ ID NOS: 13
; SEQ ID NO 6
;   LENGTH: 336
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-10-293-231-6

  Query Match             76.6%;  Score 36;  DB 4;  Length 336;
  Best Local Similarity   66.7%;  Pred. No. 1.7e+02;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              | |:||||:
Db        311 TVLQQQYNR 319


RESULT 36
US-10-606-038-7
; Sequence 7, Application US/10606038
; Publication No. US20040265295A1
; GENERAL INFORMATION:
;  APPLICANT: Anderson, Richard A.
;  APPLICANT:  Ling, Kun
;  APPLICANT:  Doughman, Renee L.
;  TITLE OF INVENTION: METHODS OF PREVENTING OR TREATING CELL-MIGRATION MEDIATED CONDITIC
;  TITLE OF INVENTION:  DISEASES
;  FILE REFERENCE: WARF-0015
;  CURRENT APPLICATION NUMBER: US/10/606,038
;  CURRENT FILING DATE:  2003-06-25
;  NUMBER OF SEQ ID NOS: 29
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
;   LENGTH: 450
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-606-038-7

  Query Match             76.6%;  Score 36;  DB 5;  Length 450;
  Best Local Similarity   66.7%;  Pred. No. 2.3e+02;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              | |:||||:
Db        430 TVLQQQYNR 438


RESULT 37
US-10-211-962-41
; Sequence 41, Application US/10211962
```

```
; Publication No. US20030082640A1
; GENERAL INFORMATION:
;  APPLICANT: Herz, Joachim
;  APPLICANT:  Gotthardt, Michael
;  TITLE OF INVENTION: LDL Receptor Signaling Pathways
;  FILE REFERENCE: UTSW0708
;  CURRENT APPLICATION NUMBER: US/10/211,962
;  CURRENT FILING DATE:  2002-08-01
;  PRIOR APPLICATION NUMBER: US/09/562,737
;  PRIOR FILING DATE: 2000-05-01
;  NUMBER OF SEQ ID NOS: 132
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 41
;   LENGTH: 1024
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;   OTHER INFORMATION: Sequence
US-10-211-962-41

  Query Match             76.6%;  Score 36;  DB 4;  Length 1024;
  Best Local Similarity   66.7%;  Pred. No. 5.4e+02;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              | |:||||:
Db        430 TVLQQQYNR 438


RESULT 38
US-10-211-962-49
; Sequence 49, Application US/10211962
; Publication No. US20030082640A1
; GENERAL INFORMATION:
;  APPLICANT: Herz, Joachim
;  APPLICANT:  Gotthardt, Michael
;  TITLE OF INVENTION: LDL Receptor Signaling Pathways
;  FILE REFERENCE: UTSW0708
;  CURRENT APPLICATION NUMBER: US/10/211,962
;  CURRENT FILING DATE:  2002-08-01
;  PRIOR APPLICATION NUMBER: US/09/562,737
;  PRIOR FILING DATE: 2000-05-01
;  NUMBER OF SEQ ID NOS: 132
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 49
;   LENGTH: 1024
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;   OTHER INFORMATION: Sequence
US-10-211-962-49

  Query Match             76.6%;  Score 36;  DB 4;  Length 1024;
  Best Local Similarity   66.7%;  Pred. No. 5.4e+02;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              | |:||||:
Db        430 TVLQQQYNR 438


RESULT 39
US-10-606-038-6
; Sequence 6, Application US/10606038
; Publication No. US20040265295A1
; GENERAL INFORMATION:
;  APPLICANT: Anderson, Richard A.
;  APPLICANT:  Ling, Kun
;  APPLICANT:  Doughman, Renee L.
;  TITLE OF INVENTION: METHODS OF PREVENTING OR TREATING CELL-MIGRATION MEDIATED CONDITI
;  TITLE OF INVENTION:  DISEASES
;  FILE REFERENCE: WARF-0015
;  CURRENT APPLICATION NUMBER: US/10/606,038
;  CURRENT FILING DATE:  2003-06-25
;  NUMBER OF SEQ ID NOS: 29
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
;   LENGTH: 2540
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-606-038-6

  Query Match             76.6%;  Score 36;  DB 5;  Length 2540;
  Best Local Similarity   66.7%;  Pred. No. 1.4e+03;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              | |:||||:
Db        430 TVLQQQYNR 438


RESULT 40
US-10-177-293-470
; Sequence 470, Application US/10177293
; Publication No. US20030124128A1
; GENERAL INFORMATION:
;  APPLICANT: Lillie, James
;  APPLICANT:  Glatt, Karen
;  APPLICANT:  Zhao, Xumei
;  APPLICANT:  Gannavarpu, Manjula
;  APPLICANT:  Kamatkar, Shubhangi
;  APPLICANT:  Mertens, Maureen
;  APPLICANT:  Myer, Vic
;  APPLICANT:  Wang, Youzhen
;  APPLICANT:  Xu, Yongyao
;  APPLICANT:  Hoersch, Sebastian
;  APPLICANT:  Monahan, John
;  APPLICANT:  Meyers, Rachel E.
;  APPLICANT:  Bast Jr., Robert C.
;  APPLICANT:  Hortobagyi, Gabriel N.
;  APPLICANT:  Pusztai, Lajos
;  APPLICANT:  Meric, Funda
;  APPLICANT:  Sahin, Aysegul
;  APPLICANT:  Mills, Gordon B.
;  TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT,
;  TITLE OF INVENTION:  PREVENTION, AND THERAPY OF BREAST CANCER
;  FILE REFERENCE: MRI-038
;  CURRENT APPLICATION NUMBER: US/10/177,293
;  CURRENT FILING DATE:  2002-06-21
;  PRIOR APPLICATION NUMBER: US 60/299,887
;  PRIOR FILING DATE: 2001-06-21
;  PRIOR APPLICATION NUMBER: US 60/301,572
;  PRIOR FILING DATE: 2001-06-27
;  PRIOR APPLICATION NUMBER: US 60/306,501
;  PRIOR FILING DATE: 2001-07-18
;  PRIOR APPLICATION NUMBER: US 60/325,002
;  PRIOR FILING DATE: 2001-09-25
;  PRIOR APPLICATION NUMBER: US 60/362,585
;  PRIOR FILING DATE: 2002-03-05
;  PRIOR APPLICATION NUMBER: US 60/xxx,xxx
;  PRIOR FILING DATE: 2002-05-14
;  NUMBER OF SEQ ID NOS: 506
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 470
;   LENGTH: 2541
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-177-293-470

  Query Match             76.6%;  Score 36;  DB 4;  Length 2541;
  Best Local Similarity   66.7%;  Pred. No. 1.4e+03;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
```

```
              | |:||||:
Db        430 TVLQQQYNR 438


RESULT 41
US-10-719-993-535
; Sequence 535, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
;  APPLICANT: CARGILL, Michele et al.
;  TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
;  TITLE OF INVENTION:  ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001496
;  CURRENT APPLICATION NUMBER: US/10/719,993
;  CURRENT FILING DATE:  2003-11-24
;  NUMBER OF SEQ ID NOS: 55342
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 535
;   LENGTH: 2541
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-719-993-535

  Query Match             76.6%;  Score 36;  DB 5;  Length 2541;
  Best Local Similarity   66.7%;  Pred. No. 1.4e+03;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              | |:||||:
Db        430 TVLQQQYNR 438


RESULT 42
US-10-719-993-536
; Sequence 536, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
;  APPLICANT: CARGILL, Michele et al.
;  TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
;  TITLE OF INVENTION:  ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001496
;  CURRENT APPLICATION NUMBER: US/10/719,993
;  CURRENT FILING DATE:  2003-11-24
;  NUMBER OF SEQ ID NOS: 55342
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 536
;   LENGTH: 2541
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-719-993-536

  Query Match             76.6%;  Score 36;  DB 5;  Length 2541;
  Best Local Similarity   66.7%;  Pred. No. 1.4e+03;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              | |:||||:
Db        430 TVLQQQYNR 438


RESULT 43
US-10-287-436A-460
; Sequence 460, Application US/10287436A
; Publication No. US20050202421A1
; GENERAL INFORMATION:
;  APPLICANT: CHILDREN'S HOSPITAL MEDICAL CENTER
;  TITLE OF INVENTION: METHOD FOR DIAGNOSIS AND TREATMENT OF
;  TITLE OF INVENTION:  RHEUMATOID ARTHRITIS
;  FILE REFERENCE: 10872.514696
;  CURRENT APPLICATION NUMBER: US/10/287,436A
;  CURRENT FILING DATE:  2002-10-31
;  PRIOR APPLICATION NUMBER: US 60/336,220
;  PRIOR FILING DATE: 2001-10-31
;  NUMBER OF SEQ ID NOS: 1446
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 460
;   LENGTH: 2541
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-287-436A-460

  Query Match             76.6%;  Score 36;  DB 5;  Length 2541;
  Best Local Similarity   66.7%;  Pred. No. 1.4e+03;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              | |:||||:
Db        430 TVLQQQYNR 438


RESULT 44
US-10-287-436A-1259
; Sequence 1259, Application US/10287436A
; Publication No. US20050202421A1
; GENERAL INFORMATION:
;  APPLICANT: CHILDREN'S HOSPITAL MEDICAL CENTER
;  TITLE OF INVENTION: METHOD FOR DIAGNOSIS AND TREATMENT OF
;  TITLE OF INVENTION:  RHEUMATOID ARTHRITIS
;  FILE REFERENCE: 10872.514696
;  CURRENT APPLICATION NUMBER: US/10/287,436A
;  CURRENT FILING DATE:  2002-10-31
;  PRIOR APPLICATION NUMBER: US 60/336,220
;  PRIOR FILING DATE: 2001-10-31
;  NUMBER OF SEQ ID NOS: 1446
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1259
;   LENGTH: 2541
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-287-436A-1259

  Query Match             76.6%;  Score 36;  DB 5;  Length 2541;
  Best Local Similarity   66.7%;  Pred. No. 1.4e+03;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              | |:||||:
Db        430 TVLQQQYNR 438


RESULT 45
US-10-424-599-239661
; Sequence 239661, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 239661
;   LENGTH: 109
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_58439C.1.pep
US-10-424-599-239661

  Query Match             74.5%;  Score 35;  DB 4;  Length 109;
  Best Local Similarity   66.7%;  Pred. No. 78;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;
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Qy          1 TTLEQQYNK 9
              ||:|: |||
Db         58 TTVEEAYNK 66
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RESULT 46
US-10-424-599-239858
; Sequence 239858, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 239858
; LENGTH: 127
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(127)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_58617C.1.pep
US-10-424-599-239858

Query Match 74.5%; Score 35; DB 4; Length 127;
Best Local Similarity 66.7%; Pred. No. 92;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

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Qy          1 TTLEQQYNK 9
              ||:|: |||
Db         91 TTVEEAYNK 99
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RESULT 47
US-10-424-599-232289
; Sequence 232289, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 232289
; LENGTH: 136
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(136)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_51780C.1.pep
US-10-424-599-232289

Query Match 74.5%; Score 35; DB 4; Length 136;
Best Local Similarity 66.7%; Pred. No. 98;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

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Db         86 TTVEEAYNK 94
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RESULT 48
US-10-424-599-264895
; Sequence 264895, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 264895
; LENGTH: 164
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_8121C.1.pep
US-10-424-599-264895

Query Match 74.5%; Score 35; DB 4; Length 164;
Best Local Similarity 66.7%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

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Db         52 TTVEEAYNK 60
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RESULT 49
US-10-424-599-265261
; Sequence 265261, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 265261
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(187)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_8154C.1.pep
US-10-424-599-265261

Query Match 74.5%; Score 35; DB 4; Length 187;
Best Local Similarity 66.7%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

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Qy          1 TTLEQQYNK 9
              ||:|: |||
Db         71 TTVEEAYNK 79
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RESULT 50
US-10-282-122A-48442
; Sequence 48442, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
;  APPLICANT: Wang, Liangsu
;  APPLICANT:  Zamudio, Carlos
;  APPLICANT:  Malone, Cheryl
;  APPLICANT:  Haselbeck, Robert
;  APPLICANT:  Ohlsen, Kari
;  APPLICANT:  Zyskind, Judith
;  APPLICANT:  Wall, Daniel
;  APPLICANT:  Trawick, John
;  APPLICANT:  Carr, Grant
;  APPLICANT:  Yamamoto, Robert
;  APPLICANT:  Forsyth, R.
;  APPLICANT:  Xu, H.
;  TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
;  FILE REFERENCE: ELITRA.034A
;  CURRENT APPLICATION NUMBER: US/10/282,122A
;  CURRENT FILING DATE:  2003-02-20
;  PRIOR APPLICATION NUMBER: 60/191,078
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: 60/206,848
;  PRIOR FILING DATE: 2000-05-23
;  PRIOR APPLICATION NUMBER: 60/207,727
;  PRIOR FILING DATE: 2000-05-26
;  PRIOR APPLICATION NUMBER: 60/230,335
;  PRIOR FILING DATE: 2000-09-06
;  PRIOR APPLICATION NUMBER: 60/230,347
;  PRIOR FILING DATE: 2000-09-09
;  PRIOR APPLICATION NUMBER: 60/242,578
;  PRIOR FILING DATE: 2000-10-23
;  PRIOR APPLICATION NUMBER: 60/253,625
;  PRIOR FILING DATE: 2000-11-27
;  PRIOR APPLICATION NUMBER: 60/257,931
;  PRIOR FILING DATE: 2000-12-22
;  PRIOR APPLICATION NUMBER: 60/267,636
;  PRIOR FILING DATE: 2001-02-09
;  PRIOR APPLICATION NUMBER: 60/269,308
;  PRIOR FILING DATE: 2001-02-16
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 78614
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 48442
;   LENGTH: 444
;   TYPE: PRT
;   ORGANISM: Bacteroides fragilis
US-10-282-122A-48442

  Query Match             74.5%;  Score 35;  DB 4;  Length 444;
  Best Local Similarity   55.6%;  Pred. No. 3.4e+02;
  Matches    5;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

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              :|:|::|||
Db         29 STIEEEYNK 37


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OM protein - protein search, using sw model

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Title: US-08-170-344-52
Perfect score: 47
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Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_New:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 1 | 47 | 100.0 | 15 | 9 | US-10-530-061-1658 | Sequence 1658, Ap |
| 2 | 47 | 100.0 | 151 | 9 | US-10-530-253-13 | Sequence 13, Appl |
| 3 | 47 | 100.0 | 158 | 11 | US-11-206-138-3 | Sequence 3, Appli |
| 4 | 47 | 100.0 | 248 | 9 | US-10-530-253-1 | Sequence 1, Appli |
| 5 | 47 | 100.0 | 248 | 9 | US-10-530-253-3 | Sequence 3, Appli |
| 6 | 47 | 100.0 | 248 | 9 | US-10-530-253-5 | Sequence 5, Appli |
| 7 | 47 | 100.0 | 248 | 9 | US-10-530-253-7 | Sequence 7, Appli |
| 8 | 47 | 100.0 | 248 | 9 | US-10-530-253-9 | Sequence 9, Appli |
| 9 | 47 | 100.0 | 248 | 9 | US-10-530-253-11 | Sequence 11, Appl |
| 10 | 47 | 100.0 | 256 | 11 | US-11-192-923A-2 | Sequence 2, Appli |
| 11 | 36 | 76.6 | 15 | 9 | US-10-530-061-1657 | Sequence 1657, Ap |
| 12 | 35 | 74.5 | 449 | 11 | US-11-079-463-8741 | Sequence 8741, Ap |
| 13 | 33 | 70.2 | 324 | 11 | US-11-045-004-2468 | Sequence 2468, Ap |
| 14 | 33 | 70.2 | 457 | 11 | US-11-098-686-10234 | Sequence 10234, A |
| 15 | 33 | 70.2 | 506 | 11 | US-11-188-298-12769 | Sequence 12769, A |
| 16 | 33 | 70.2 | 574 | 9 | US-10-330-773-488 | Sequence 488, App |
| 17 | 33 | 70.2 | 691 | 9 | US-10-330-773-485 | Sequence 485, App |
| 18 | 32 | 68.1 | 466 | 11 | US-11-010-239-20 | Sequence 20, Appl |
| 19 | 32 | 68.1 | 897 | 11 | US-11-087-099-8319 | Sequence 8319, Ap |
| 20 | 32 | 68.1 | 1086 | 11 | US-11-052-554A-380 | Sequence 380, App |
| 21 | 31.5 | 67.0 | 297 | 11 | US-11-188-298-15598 | Sequence 15598, A |
| 22 | 31 | 66.0 | 156 | 7 | US-09-995-493-28 | Sequence 28, Appl |
| 23 | 31 | 66.0 | 208 | 11 | US-11-172-740-1460 | Sequence 1460, Ap |
| 24 | 31 | 66.0 | 213 | 11 | US-11-188-298-3438 | Sequence 3438, Ap |
| 25 | 31 | 66.0 | 217 | 11 | US-11-172-740-1462 | Sequence 1462, Ap |
| 26 | 31 | 66.0 | 427 | 11 | US-11-045-004-1887 | Sequence 1887, Ap |
| 27 | 31 | 66.0 | 483 | 11 | US-11-045-004-2412 | Sequence 2412, Ap |
| 28 | 31 | 66.0 | 746 | 11 | US-11-079-463-8339 | Sequence 8339, Ap |
| 29 | 31 | 66.0 | 879 | 9 | US-10-770-726-78 | Sequence 78, Appl |
| 30 | 30 | 63.8 | 155 | 9 | US-10-793-626-3088 | Sequence 3088, Ap |
| 31 | 30 | 63.8 | 256 | 11 | US-11-096-568A-5557 | Sequence 5557, Ap |
| 32 | 30 | 63.8 | 277 | 9 | US-10-469-469-118 | Sequence 118, App |
| 33 | 30 | 63.8 | 299 | 11 | US-11-188-298-2987 | Sequence 2987, Ap |
| 34 | 30 | 63.8 | 335 | 11 | US-11-096-568A-5556 | Sequence 5556, Ap |
| 35 | 30 | 63.8 | 340 | 11 | US-11-096-568A-5555 | Sequence 5555, Ap |
| 36 | 30 | 63.8 | 348 | 11 | US-11-174-816-11 | Sequence 11, Appl |
| 37 | 30 | 63.8 | 386 | 11 | US-11-098-686-10767 | Sequence 10767, A |
| 38 | 30 | 63.8 | 565 | 11 | US-11-188-298-13487 | Sequence 13487, A |
| 39 | 30 | 63.8 | 565 | 11 | US-11-188-298-22261 | Sequence 22261, A |
| 40 | 30 | 63.8 | 976 | 11 | US-11-155-288-20 | Sequence 20, Appl |
| 41 | 30 | 63.8 | 1155 | 11 | US-11-098-686-10550 | Sequence 10550, A |
| 42 | 29 | 61.7 | 149 | 9 | US-10-530-253-18 | Sequence 18, Appl |
| 43 | 29 | 61.7 | 261 | 11 | US-11-096-568A-5767 | Sequence 5767, Ap |
| 44 | 29 | 61.7 | 263 | 11 | US-11-096-568A-5766 | Sequence 5766, Ap |
| 45 | 29 | 61.7 | 265 | 11 | US-11-146-093-2 | Sequence 2, Appli |
| 46 | 29 | 61.7 | 270 | 9 | US-10-485-517-413 | Sequence 413, App |
| 47 | 29 | 61.7 | 300 | 11 | US-11-079-463-7515 | Sequence 7515, Ap |
| 48 | 29 | 61.7 | 324 | 11 | US-11-051-720-1349 | Sequence 1349, Ap |
| 49 | 29 | 61.7 | 375 | 11 | US-11-096-568A-26913 | Sequence 26913, A |
| 50 | 29 | 61.7 | 385 | 11 | US-11-051-720-1348 | Sequence 1348, Ap |
| 51 | 29 | 61.7 | 386 | 9 | US-10-793-626-2300 | Sequence 2300, Ap |
| 52 | 29 | 61.7 | 394 | 11 | US-11-096-568A-5765 | Sequence 5765, Ap |
| 53 | 29 | 61.7 | 399 | 11 | US-11-096-568A-26912 | Sequence 26912, A |
| 54 | 29 | 61.7 | 419 | 11 | US-11-096-568A-26911 | Sequence 26911, A |
| 55 | 29 | 61.7 | 429 | 11 | US-11-045-004-2597 | Sequence 2597, Ap |
| 56 | 29 | 61.7 | 488 | 11 | US-11-188-298-807 | Sequence 807, App |
| 57 | 29 | 61.7 | 488 | 11 | US-11-188-298-17472 | Sequence 17472, A |
| 58 | 29 | 61.7 | 491 | 11 | US-11-096-568A-9195 | Sequence 9195, Ap |
| 59 | 29 | 61.7 | 491 | 11 | US-11-096-568A-9196 | Sequence 9196, Ap |
| 60 | 29 | 61.7 | 493 | 11 | US-11-096-568A-9194 | Sequence 9194, Ap |
| 61 | 29 | 61.7 | 511 | 11 | US-11-096-568A-9193 | Sequence 9193, Ap |
| 62 | 29 | 61.7 | 514 | 11 | US-11-051-720-1346 | Sequence 1346, Ap |
| 63 | 29 | 61.7 | 569 | 11 | US-11-079-463-8795 | Sequence 8795, Ap |
| 64 | 29 | 61.7 | 594 | 11 | US-11-052-554A-379 | Sequence 379, App |
| 65 | 29 | 61.7 | 737 | 11 | US-11-051-720-1345 | Sequence 1345, Ap |
| 66 | 29 | 61.7 | 745 | 9 | US-10-793-626-1500 | Sequence 1500, Ap |
| 67 | 29 | 61.7 | 911 | 9 | US-10-330-773-712 | Sequence 712, App |
| 68 | 29 | 61.7 | 936 | 11 | US-11-072-512-2621 | Sequence 2621, Ap |
| 69 | 29 | 61.7 | 952 | 9 | US-10-330-773-709 | Sequence 709, App |
| 70 | 29 | 61.7 | 957 | 11 | US-11-051-720-1438 | Sequence 1438, Ap |
| 71 | 29 | 61.7 | 1094 | 11 | US-11-098-686-10160 | Sequence 10160, A |
| 72 | 28 | 59.6 | 134 | 9 | US-10-793-626-2842 | Sequence 2842, Ap |
| 73 | 28 | 59.6 | 157 | 11 | US-11-123-241-32 | Sequence 32, Appl |
| 74 | 28 | 59.6 | 158 | 11 | US-11-087-099-6279 | Sequence 6279, Ap |
| 75 | 28 | 59.6 | 233 | 9 | US-10-878-556A-147 | Sequence 147, App |
| 76 | 28 | 59.6 | 236 | 11 | US-11-087-099-9653 | Sequence 9653, Ap |
| 77 | 28 | 59.6 | 248 | 8 | US-10-511-937-2936 | Sequence 2936, Ap |
| 78 | 28 | 59.6 | 248 | 9 | US-10-528-168-3 | Sequence 3, Appli |
| 79 | 28 | 59.6 | 263 | 9 | US-10-793-626-332 | Sequence 332, App |
| 80 | 28 | 59.6 | 282 | 9 | US-10-980-556-16 | Sequence 16, Appl |
| 81 | 28 | 59.6 | 285 | 11 | US-11-146-093-15 | Sequence 15, Appl |
| 82 | 28 | 59.6 | 300 | 11 | US-11-079-463-6894 | Sequence 6894, Ap |
| 83 | 28 | 59.6 | 301 | 11 | US-11-087-099-9333 | Sequence 9333, Ap |
| 84 | 28 | 59.6 | 301 | 11 | US-11-188-298-19692 | Sequence 19692, A |
| 85 | 28 | 59.6 | 302 | 11 | US-11-045-004-588 | Sequence 588, App |
| 86 | 28 | 59.6 | 304 | 11 | US-11-188-298-22404 | Sequence 22404, A |
| 87 | 28 | 59.6 | 306 | 11 | US-11-096-568A-18373 | Sequence 18373, A |
| 88 | 28 | 59.6 | 311 | 11 | US-11-096-568A-7222 | Sequence 7222, Ap |
| 89 | 28 | 59.6 | 312 | 11 | US-11-087-099-1455 | Sequence 1455, Ap |
| 90 | 28 | 59.6 | 318 | 11 | US-11-096-568A-9702 | Sequence 9702, Ap |
| 91 | 28 | 59.6 | 329 | 11 | US-11-096-568A-18372 | Sequence 18372, A |
| 92 | 28 | 59.6 | 331 | 11 | US-11-096-568A-3911 | Sequence 3911, Ap |
| 93 | 28 | 59.6 | 331 | 11 | US-11-096-568A-9701 | Sequence 9701, Ap |
| 94 | 28 | 59.6 | 336 | 9 | US-10-194-487-182 | Sequence 182, App |

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| 95 | 28 | 59.6 | 336 | 9 | US-10-195-883-182 | Sequence 182, App |
| 96 | 28 | 59.6 | 336 | 9 | US-10-195-888-182 | Sequence 182, App |
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| 98 | 28 | 59.6 | 336 | 9 | US-10-216-161A-303 | Sequence 303, App |
| 99 | 28 | 59.6 | 339 | 11 | US-11-096-568A-9700 | Sequence 9700, Ap |
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| 101 | 28 | 59.6 | 370 | 11 | US-11-188-298-3719 | Sequence 3719, Ap |
| 102 | 28 | 59.6 | 377 | 11 | US-11-188-298-11460 | Sequence 11460, A |
| 103 | 28 | 59.6 | 429 | 11 | US-11-096-568A-7221 | Sequence 7221, Ap |
| 104 | 28 | 59.6 | 438 | 11 | US-11-079-463-8129 | Sequence 8129, Ap |
| 105 | 28 | 59.6 | 456 | 11 | US-11-069-642-15 | Sequence 15, Appl |
| 106 | 28 | 59.6 | 474 | 11 | US-11-096-568A-26621 | Sequence 26621, A |
| 107 | 28 | 59.6 | 477 | 11 | US-11-124-607-11 | Sequence 11, Appl |
| 108 | 28 | 59.6 | 481 | 11 | US-11-096-568A-7220 | Sequence 7220, Ap |
| 109 | 28 | 59.6 | 498 | 11 | US-11-188-298-1166 | Sequence 1166, Ap |
| 110 | 28 | 59.6 | 506 | 11 | US-11-188-298-19550 | Sequence 19550, A |
| 111 | 28 | 59.6 | 509 | 11 | US-11-188-298-14035 | Sequence 14035, A |
| 112 | 28 | 59.6 | 562 | 11 | US-11-079-463-7828 | Sequence 7828, Ap |
| 113 | 28 | 59.6 | 569 | 11 | US-11-096-568A-26620 | Sequence 26620, A |
| 114 | 28 | 59.6 | 577 | 11 | US-11-188-298-15593 | Sequence 15593, A |
| 115 | 28 | 59.6 | 608 | 11 | US-11-096-568A-26619 | Sequence 26619, A |
| 116 | 28 | 59.6 | 608 | 11 | US-11-067-260-1 | Sequence 1, Appli |
| 117 | 28 | 59.6 | 628 | 9 | US-10-467-657-2484 | Sequence 2484, Ap |
| 118 | 28 | 59.6 | 667 | 11 | US-11-098-686-11395 | Sequence 11395, A |
| 119 | 28 | 59.6 | 672 | 11 | US-11-067-260-36 | Sequence 36, Appl |
| 120 | 28 | 59.6 | 675 | 11 | US-11-067-260-34 | Sequence 34, Appl |
| 121 | 28 | 59.6 | 736 | 9 | US-10-194-487-420 | Sequence 420, App |
| 122 | 28 | 59.6 | 736 | 9 | US-10-195-883-420 | Sequence 420, App |
| 123 | 28 | 59.6 | 736 | 9 | US-10-195-888-420 | Sequence 420, App |
| 124 | 28 | 59.6 | 736 | 9 | US-10-195-889-420 | Sequence 420, App |
| 125 | 28 | 59.6 | 736 | 9 | US-10-216-161A-526 | Sequence 526, App |
| 126 | 28 | 59.6 | 751 | 11 | US-11-067-260-40 | Sequence 40, Appl |
| 127 | 28 | 59.6 | 751 | 11 | US-11-067-260-48 | Sequence 48, Appl |
| 128 | 28 | 59.6 | 765 | 11 | US-11-037-243-80 | Sequence 80, Appl |
| 129 | 28 | 59.6 | 765 | 11 | US-11-067-260-54 | Sequence 54, Appl |
| 130 | 28 | 59.6 | 799 | 8 | US-10-511-455-62 | Sequence 62, Appl |
| 131 | 28 | 59.6 | 806 | 11 | US-11-067-260-38 | Sequence 38, Appl |
| 132 | 28 | 59.6 | 806 | 11 | US-11-067-260-42 | Sequence 42, Appl |
| 133 | 28 | 59.6 | 966 | 11 | US-11-054-281-71 | Sequence 71, Appl |
| 134 | 28 | 59.6 | 974 | 11 | US-11-054-281-73 | Sequence 73, Appl |
| 135 | 28 | 59.6 | 1118 | 11 | US-11-079-463-9536 | Sequence 9536, Ap |
| 136 | 28 | 59.6 | 1177 | 11 | US-11-226-943-34 | Sequence 34, Appl |
| 137 | 28 | 59.6 | 1242 | 9 | US-10-330-773-575 | Sequence 575, App |
| 138 | 28 | 59.6 | 1375 | 9 | US-10-995-561-809 | Sequence 809, App |
| 139 | 28 | 59.6 | 1376 | 11 | US-11-100-640-32 | Sequence 32, Appl |
| 140 | 28 | 59.6 | 1474 | 11 | US-11-067-260-18 | Sequence 18, Appl |
| 141 | 28 | 59.6 | 1765 | 9 | US-10-055-877-140 | Sequence 140, App |
| 142 | 28 | 59.6 | 1940 | 9 | US-10-055-877-141 | Sequence 141, App |
| 143 | 28 | 59.6 | 4384 | 9 | US-10-821-234-1120 | Sequence 1120, Ap |
| 144 | 28 | 59.6 | 8746 | 11 | US-11-098-686-10232 | Sequence 10232, A |
| 145 | 27 | 57.4 | 17 | 11 | US-11-129-741-3557 | Sequence 3557, Ap |
| 146 | 27 | 57.4 | 61 | 11 | US-11-229-769-158 | Sequence 158, App |
| 147 | 27 | 57.4 | 96 | 11 | US-11-124-367A-507 | Sequence 507, App |
| 148 | 27 | 57.4 | 137 | 11 | US-11-072-512-3241 | Sequence 3241, Ap |
| 149 | 27 | 57.4 | 146 | 11 | US-11-172-740-1034 | Sequence 1034, Ap |
| 150 | 27 | 57.4 | 149 | 9 | US-10-530-253-16 | Sequence 16, Appl |
| 151 | 27 | 57.4 | 170 | 11 | US-11-232-406A-26 | Sequence 26, Appl |
| 152 | 27 | 57.4 | 175 | 9 | US-10-467-657-7264 | Sequence 7264, Ap |
| 153 | 27 | 57.4 | 185 | 11 | US-11-096-568A-8291 | Sequence 8291, Ap |
| 154 | 27 | 57.4 | 225 | 11 | US-11-079-463-6866 | Sequence 6866, Ap |
| 155 | 27 | 57.4 | 242 | 11 | US-11-045-004-1371 | Sequence 1371, Ap |
| 156 | 27 | 57.4 | 247 | 11 | US-11-096-568A-8290 | Sequence 8290, Ap |
| 157 | 27 | 57.4 | 276 | 11 | US-11-096-568A-8289 | Sequence 8289, Ap |
| 158 | 27 | 57.4 | 280 | 11 | US-11-079-463-10173 | Sequence 10173, A |
| 159 | 27 | 57.4 | 292 | 11 | US-11-079-463-5516 | Sequence 5516, Ap |
| 160 | 27 | 57.4 | 303 | 11 | US-11-096-568A-32978 | Sequence 32978, A |
| 161 | 27 | 57.4 | 307 | 11 | US-11-098-686-11160 | Sequence 11160, A |
| 162 | 27 | 57.4 | 317 | 11 | US-11-188-298-5859 | Sequence 5859, Ap |
| 163 | 27 | 57.4 | 324 | 9 | US-10-793-626-640 | Sequence 640, App |
| 164 | 27 | 57.4 | 327 | 11 | US-11-096-568A-32977 | Sequence 32977, A |
| 165 | 27 | 57.4 | 331 | 11 | US-11-072-512-3873 | Sequence 3873, Ap |
| 166 | 27 | 57.4 | 332 | 11 | US-11-079-463-9376 | Sequence 9376, Ap |
| 167 | 27 | 57.4 | 341 | 9 | US-10-793-626-3248 | Sequence 3248, Ap |
| 168 | 27 | 57.4 | 376 | 11 | US-11-098-686-11320 | Sequence 11320, A |
| 169 | 27 | 57.4 | 400 | 9 | US-10-467-657-2702 | Sequence 2702, Ap |
| 170 | 27 | 57.4 | 412 | 9 | US-10-510-941-6 | Sequence 6, Appli |
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| 174 | 27 | 57.4 | 454 | 11 | US-11-188-298-5196 | Sequence 5196, Ap |
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| 176 | 27 | 57.4 | 457 | 11 | US-11-188-298-9752 | Sequence 9752, Ap |
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| 179 | 27 | 57.4 | 485 | 11 | US-11-124-367A-393 | Sequence 393, App |
| 180 | 27 | 57.4 | 488 | 9 | US-10-485-517-307 | Sequence 307, App |
| 181 | 27 | 57.4 | 493 | 11 | US-11-087-099-5102 | Sequence 5102, Ap |
| 182 | 27 | 57.4 | 560 | 11 | US-11-188-298-22237 | Sequence 22237, A |
| 183 | 27 | 57.4 | 576 | 11 | US-11-087-099-2421 | Sequence 2421, Ap |
| 184 | 27 | 57.4 | 583 | 11 | US-11-052-554A-215 | Sequence 215, App |
| 185 | 27 | 57.4 | 651 | 11 | US-11-188-298-8667 | Sequence 8667, Ap |
| 186 | 27 | 57.4 | 664 | 11 | US-11-045-004-224 | Sequence 224, App |
| 187 | 27 | 57.4 | 664 | 11 | US-11-045-004-794 | Sequence 794, App |
| 188 | 27 | 57.4 | 676 | 11 | US-11-188-298-5042 | Sequence 5042, Ap |
| 189 | 27 | 57.4 | 676 | 11 | US-11-188-298-12431 | Sequence 12431, A |
| 190 | 27 | 57.4 | 687 | 11 | US-11-079-463-8215 | Sequence 8215, Ap |
| 191 | 27 | 57.4 | 703 | 11 | US-11-188-298-18239 | Sequence 18239, A |
| 192 | 27 | 57.4 | 737 | 11 | US-11-188-298-21294 | Sequence 21294, A |
| 193 | 27 | 57.4 | 741 | 9 | US-10-793-626-1178 | Sequence 1178, Ap |
| 194 | 27 | 57.4 | 749 | 11 | US-11-072-512-2622 | Sequence 2622, Ap |
| 195 | 27 | 57.4 | 751 | 11 | US-11-012-762-26 | Sequence 26, Appl |
| 196 | 27 | 57.4 | 753 | 11 | US-11-186-284-153 | Sequence 153, App |
| 197 | 27 | 57.4 | 811 | 9 | US-10-194-487-414 | Sequence 414, App |
| 198 | 27 | 57.4 | 811 | 9 | US-10-195-883-414 | Sequence 414, App |
| 199 | 27 | 57.4 | 811 | 9 | US-10-195-888-414 | Sequence 414, App |
| 200 | 27 | 57.4 | 811 | 9 | US-10-195-889-414 | Sequence 414, App |
| 201 | 27 | 57.4 | 811 | 11 | US-11-185-567-4 | Sequence 4, Appli |
| 202 | 27 | 57.4 | 811 | 11 | US-11-229-308-1 | Sequence 1, Appli |
| 203 | 27 | 57.4 | 851 | 11 | US-11-045-004-4 | Sequence 4, Appli |
| 204 | 27 | 57.4 | 855 | 9 | US-10-909-769-30 | Sequence 30, Appl |
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| 207 | 27 | 57.4 | 948 | 11 | US-11-241-956-10 | Sequence 10, Appl |
| 208 | 27 | 57.4 | 1005 | 11 | US-11-080-991-90 | Sequence 90, Appl |
| 209 | 27 | 57.4 | 1065 | 9 | US-10-793-626-1212 | Sequence 1212, Ap |
| 210 | 27 | 57.4 | 1367 | 9 | US-10-995-561-538 | Sequence 538, App |
| 211 | 27 | 57.4 | 1367 | 9 | US-10-510-903-10 | Sequence 10, Appl |
| 212 | 27 | 57.4 | 1367 | 11 | US-11-113-202-18 | Sequence 18, Appl |
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| 214 | 27 | 57.4 | 2051 | 9 | US-10-330-773-307 | Sequence 307, App |
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| 217 | 26.5 | 56.4 | 342 | 11 | US-11-096-568A-19206 | Sequence 19206, A |
| 218 | 26.5 | 56.4 | 462 | 11 | US-11-096-568A-19205 | Sequence 19205, A |
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| 224 | 26 | 55.3 | 141 | 9 | US-10-793-626-3084 | Sequence 3084, Ap |
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| 226 | 26 | 55.3 | 166 | 11 | US-11-176-830-1291 | Sequence 1291, Ap |
| 227 | 26 | 55.3 | 166 | 11 | US-11-196-067-487 | Sequence 487, App |
| 228 | 26 | 55.3 | 170 | 9 | US-10-689-742-16 | Sequence 16, Appl |
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| 239 | 26 | 55.3 | 204 | 11 | US-11-072-175-190 | Sequence 190, App |
| 240 | 26 | 55.3 | 208 | 11 | US-11-096-568A-9230 | Sequence 9230, Ap |

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| 250 | 26 | 55.3 | 269 | 11 | US-11-188-298-7676 | Sequence 7676, Ap |
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| 372 | 26 | 55.3 | 471 | 11 | US-11-188-298-18668 | Sequence 18668, A |
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| 377 | 26 | 55.3 | 477 | 11 | US-11-188-298-17426 | Sequence 17426, A |
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| 380 | 26 | 55.3 | 481 | 11 | US-11-188-298-10613 | Sequence 10613, A |
| 381 | 26 | 55.3 | 484 | 11 | US-11-188-298-15061 | Sequence 15061, A |
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| 383 | 26 | 55.3 | 486 | 11 | US-11-188-298-18507 | Sequence 18507, A |
| 384 | 26 | 55.3 | 488 | 11 | US-11-188-298-957 | Sequence 957, App |
| 385 | 26 | 55.3 | 488 | 11 | US-11-188-298-1196 | Sequence 1196, Ap |
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| 394 | 26 | 55.3 | 488 | 11 | US-11-188-298-7245 | Sequence 7245, Ap |
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| 455 | 26 | 55.3 | 625 | 9 | US-10-152-370-70 | Sequence 70, Appl |
| 456 | 26 | 55.3 | 625 | 11 | US-11-290-153-70 | Sequence 70, Appl |
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| 458 | 26 | 55.3 | 635 | 9 | US-10-523-503-38 | Sequence 38, Appl |
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| 463 | 26 | 55.3 | 674 | 11 | US-11-290-153-36 | Sequence 36, Appl |
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| 467 | 26 | 55.3 | 731 | 11 | US-11-079-463-7364 | Sequence 7364, Ap |
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| 485 | 26 | 55.3 | 928 | 11 | US-11-096-568A-30821 | Sequence 30821, A |
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| 487 | 26 | 55.3 | 934 | 11 | US-11-183-294-20 | Sequence 20, Appl |
| 488 | 26 | 55.3 | 934 | 11 | US-11-235-037-13 | Sequence 13, Appl |
| 489 | 26 | 55.3 | 966 | 11 | US-11-054-281-72 | Sequence 72, Appl |
| 490 | 26 | 55.3 | 972 | 11 | US-11-177-894-17 | Sequence 17, Appl |
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| 494 | 26 | 55.3 | 976 | 11 | US-11-177-894-16 | Sequence 16, Appl |
| 495 | 26 | 55.3 | 976 | 11 | US-11-177-894-18 | Sequence 18, Appl |
| 496 | 26 | 55.3 | 976 | 11 | US-11-177-894-19 | Sequence 19, Appl |
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| 507 | 26 | 55.3 | 1120 | 11 | US-11-079-463-9538 | Sequence 9538, Ap |
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| 509 | 26 | 55.3 | 1308 | 9 | US-10-912-971-12 | Sequence 12, Appl |
| 510 | 26 | 55.3 | 1308 | 11 | US-11-113-202-16 | Sequence 16, Appl |
| 511 | 26 | 55.3 | 1456 | 8 | US-10-505-928-69 | Sequence 69, Appl |
| 512 | 26 | 55.3 | 1490 | 11 | US-11-188-298-4123 | Sequence 4123, Ap |
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| 514 | 26 | 55.3 | 1641 | 9 | US-10-877-346-40 | Sequence 40, Appl |
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| 518 | 26 | 55.3 | 2066 | 9 | US-10-877-346-9 | Sequence 9, Appli |
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| 528 | 25 | 53.2 | 61 | 11 | US-11-116-881A-157 | Sequence 157, App |
| 529 | 25 | 53.2 | 69 | 11 | US-11-087-099-4917 | Sequence 4917, Ap |
| 530 | 25 | 53.2 | 73 | 11 | US-11-172-740-47 | Sequence 47, Appl |
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| 537 | 25 | 53.2 | 110 | 11 | US-11-235-776A-23 | Sequence 23, Appl |
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| 539 | 25 | 53.2 | 113 | 11 | US-11-096-568A-616 | Sequence 616, App |
| 540 | 25 | 53.2 | 113 | 11 | US-11-197-644-42 | Sequence 42, Appl |
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| 548 | 25 | 53.2 | 154 | 11 | US-11-045-004-122 | Sequence 122, App |
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| 554 | 25 | 53.2 | 166 | 11 | US-11-176-830-1089 | Sequence 1089, Ap |
| 555 | 25 | 53.2 | 166 | 11 | US-11-196-067-285 | Sequence 285, App |
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| 567 | 25 | 53.2 | 210 | 11 | US-11-197-038-38 | Sequence 38, Appl |
| 568 | 25 | 53.2 | 210 | 11 | US-11-197-644-38 | Sequence 38, Appl |
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| 592 | 25 | 53.2 | 228 | 9 | US-10-841-956A-16 | Sequence 16, Appl |
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| 601 | 25 | 53.2 | 233 | 11 | US-11-251-011-21 | Sequence 21, Appl |
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| 606 | 25 | 53.2 | 237 | 11 | US-11-083-055-2 | Sequence 2, Appli |
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| 609 | 25 | 53.2 | 241 | 9 | US-10-993-143-14 | Sequence 14, Appl |
| 610 | 25 | 53.2 | 245 | 11 | US-11-029-003-20 | Sequence 20, Appl |
| 611 | 25 | 53.2 | 247 | 9 | US-10-935-005B-82 | Sequence 82, Appl |
| 612 | 25 | 53.2 | 247 | 9 | US-10-935-005B-85 | Sequence 85, Appl |
| 613 | 25 | 53.2 | 248 | 11 | US-11-093-808-4 | Sequence 4, Appli |
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| 615 | 25 | 53.2 | 249 | 9 | US-10-935-005B-86 | Sequence 86, Appl |
| 616 | 25 | 53.2 | 250 | 11 | US-11-242-294-35 | Sequence 35, Appl |
| 617 | 25 | 53.2 | 251 | 9 | US-10-935-005B-84 | Sequence 84, Appl |
| 618 | 25 | 53.2 | 251 | 9 | US-10-506-454-1519 | Sequence 1519, Ap |
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| 622 | 25 | 53.2 | 251 | 11 | US-11-242-294-33 | Sequence 33, Appl |
| 623 | 25 | 53.2 | 251 | 11 | US-11-242-294-39 | Sequence 39, Appl |
| 624 | 25 | 53.2 | 252 | 11 | US-11-055-822-134 | Sequence 134, App |
| 625 | 25 | 53.2 | 252 | 11 | US-11-055-822-1120 | Sequence 1120, Ap |
| 626 | 25 | 53.2 | 252 | 11 | US-11-087-099-537 | Sequence 537, App |
| 627 | 25 | 53.2 | 254 | 9 | US-10-821-234-861 | Sequence 861, App |
| 628 | 25 | 53.2 | 254 | 11 | US-11-172-740-480 | Sequence 480, App |
| 629 | 25 | 53.2 | 255 | 11 | US-11-057-923-5 | Sequence 5, Appli |
| 630 | 25 | 53.2 | 255 | 11 | US-11-087-099-6323 | Sequence 6323, Ap |
| 631 | 25 | 53.2 | 256 | 11 | US-11-029-003-14 | Sequence 14, Appl |
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| 634 | 25 | 53.2 | 261 | 9 | US-10-883-512-143 | Sequence 143, App |
| 635 | 25 | 53.2 | 263 | 11 | US-11-096-568A-25976 | Sequence 25976, A |
| 636 | 25 | 53.2 | 265 | 9 | US-10-883-512-144 | Sequence 144, App |
| 637 | 25 | 53.2 | 267 | 9 | US-10-841-956A-4 | Sequence 4, Appli |
| 638 | 25 | 53.2 | 269 | 9 | US-10-793-626-880 | Sequence 880, App |
| 639 | 25 | 53.2 | 269 | 9 | US-10-841-956A-8 | Sequence 8, Appli |
| 640 | 25 | 53.2 | 270 | 9 | US-10-841-956A-5 | Sequence 5, Appli |
| 641 | 25 | 53.2 | 271 | 11 | US-11-089-551A-17 | Sequence 17, Appl |
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| 643 | 25 | 53.2 | 276 | 11 | US-11-029-003-18 | Sequence 18, Appl |
| 644 | 25 | 53.2 | 278 | 11 | US-11-045-004-282 | Sequence 282, App |
| 645 | 25 | 53.2 | 279 | 9 | US-10-821-234-1472 | Sequence 1472, Ap |
| 646 | 25 | 53.2 | 281 | 9 | US-10-841-956A-7 | Sequence 7, Appli |
| 647 | 25 | 53.2 | 281 | 11 | US-11-082-389-58 | Sequence 58, Appl |
| 648 | 25 | 53.2 | 282 | 9 | US-10-841-956A-6 | Sequence 6, Appli |
| 649 | 25 | 53.2 | 283 | 11 | US-11-096-568A-766 | Sequence 766, App |
| 650 | 25 | 53.2 | 284 | 11 | US-11-096-568A-28869 | Sequence 28869, A |
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| 653 | 25 | 53.2 | 290 | 11 | US-11-188-298-15162 | Sequence 15162, A |
| 654 | 25 | 53.2 | 290 | 11 | US-11-188-298-22337 | Sequence 22337, A |
| 655 | 25 | 53.2 | 290 | 11 | US-11-188-298-22454 | Sequence 22454, A |
| 656 | 25 | 53.2 | 292 | 11 | US-11-069-642-117 | Sequence 117, App |
| 657 | 25 | 53.2 | 292 | 11 | US-11-087-719-73 | Sequence 73, Appl |
| 658 | 25 | 53.2 | 292 | 11 | US-11-087-719-75 | Sequence 75, Appl |
| 659 | 25 | 53.2 | 293 | 9 | US-10-841-956A-9 | Sequence 9, Appli |
| 660 | 25 | 53.2 | 293 | 11 | US-11-072-512-2381 | Sequence 2381, Ap |
| 661 | 25 | 53.2 | 294 | 9 | US-10-883-512-145 | Sequence 145, App |
| 662 | 25 | 53.2 | 294 | 11 | US-11-188-298-10716 | Sequence 10716, A |
| 663 | 25 | 53.2 | 294 | 11 | US-11-188-298-15947 | Sequence 15947, A |
| 664 | 25 | 53.2 | 295 | 11 | US-11-096-568A-25975 | Sequence 25975, A |
| 665 | 25 | 53.2 | 296 | 9 | US-10-954-468-9 | Sequence 9, Appli |
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| 670 | 25 | 53.2 | 303 | 11 | US-11-087-719-71 | Sequence 71, Appl |
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| 673 | 25 | 53.2 | 309 | 9 | US-10-862-109-7 | Sequence 7, Appli |
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| 683 | 25 | 53.2 | 320 | 11 | US-11-183-205-50 | Sequence 50, Appl |
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| 688 | 25 | 53.2 | 324 | 11 | US-11-197-038-36 | Sequence 36, Appl |
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| 694 | 25 | 53.2 | 329 | 11 | US-11-149-309-17 | Sequence 17, Appl |
| 695 | 25 | 53.2 | 329 | 11 | US-11-190-202-14 | Sequence 14, Appl |
| 696 | 25 | 53.2 | 329 | 11 | US-11-190-202-16 | Sequence 16, Appl |
| 697 | 25 | 53.2 | 329 | 11 | US-11-155-843-128 | Sequence 128, App |
| 698 | 25 | 53.2 | 329 | 11 | US-11-155-843-141 | Sequence 141, App |
| 699 | 25 | 53.2 | 330 | 9 | US-10-510-386-196 | Sequence 196, App |
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| 701 | 25 | 53.2 | 330 | 9 | US-10-493-909-20 | Sequence 20, Appl |
| 702 | 25 | 53.2 | 330 | 9 | US-10-982-440-68 | Sequence 68, Appl |
| 703 | 25 | 53.2 | 330 | 10 | US-11-219-563-136 | Sequence 136, App |
| 704 | 25 | 53.2 | 330 | 10 | US-11-221-902-25 | Sequence 25, Appl |
| 705 | 25 | 53.2 | 330 | 10 | US-11-221-902-85 | Sequence 85, Appl |
| 706 | 25 | 53.2 | 330 | 10 | US-11-221-902-86 | Sequence 86, Appl |
| 707 | 25 | 53.2 | 330 | 10 | US-11-221-902-87 | Sequence 87, Appl |
| 708 | 25 | 53.2 | 330 | 10 | US-11-221-902-88 | Sequence 88, Appl |
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| 711 | 25 | 53.2 | 330 | 11 | US-11-075-351-1 | Sequence 1, Appli |
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| 716 | 25 | 53.2 | 330 | 11 | US-11-102-621-68 | Sequence 68, Appl |
| 717 | 25 | 53.2 | 330 | 11 | US-11-102-621-69 | Sequence 69, Appl |
| 718 | 25 | 53.2 | 330 | 11 | US-11-102-621-70 | Sequence 70, Appl |
| 719 | 25 | 53.2 | 330 | 11 | US-11-102-621-71 | Sequence 71, Appl |
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| 721 | 25 | 53.2 | 330 | 11 | US-11-102-621-76 | Sequence 76, Appl |
| 722 | 25 | 53.2 | 330 | 11 | US-11-005-726-164 | Sequence 164, App |
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| 724 | 25 | 53.2 | 330 | 11 | US-11-233-683-1 | Sequence 1, Appli |
| 725 | 25 | 53.2 | 330 | 11 | US-11-201-825-55 | Sequence 55, Appl |
| 726 | 25 | 53.2 | 330 | 11 | US-11-218-813-136 | Sequence 136, App |
| 727 | 25 | 53.2 | 332 | 11 | US-11-242-294-62 | Sequence 62, Appl |
| 728 | 25 | 53.2 | 332 | 11 | US-11-122-622-98 | Sequence 98, Appl |
| 729 | 25 | 53.2 | 333 | 11 | US-11-096-568A-21799 | Sequence 21799, A |
| 730 | 25 | 53.2 | 333 | 11 | US-11-079-463-5620 | Sequence 5620, Ap |
| 731 | 25 | 53.2 | 334 | 11 | US-11-087-099-7097 | Sequence 7097, Ap |
| 732 | 25 | 53.2 | 335 | 11 | US-11-024-251-35 | Sequence 35, Appl |
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| 734 | 25 | 53.2 | 339 | 9 | US-10-935-005B-66 | Sequence 66, Appl |
| 735 | 25 | 53.2 | 339 | 10 | US-11-091-234A-35 | Sequence 35, Appl |
| 736 | 25 | 53.2 | 339 | 11 | US-11-061-821-35 | Sequence 35, Appl |
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| 738 | 25 | 53.2 | 344 | 11 | US-11-242-294-52 | Sequence 52, Appl |
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| 740 | 25 | 53.2 | 344 | 11 | US-11-190-202-17 | Sequence 17, Appl |
| 741 | 25 | 53.2 | 346 | 7 | US-09-978-360A-537 | Sequence 537, App |
| 742 | 25 | 53.2 | 346 | 11 | US-11-197-038-35 | Sequence 35, Appl |
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| 746 | 25 | 53.2 | 346 | 11 | US-11-197-644-35 | Sequence 35, Appl |
| 747 | 25 | 53.2 | 346 | 11 | US-11-235-776A-5 | Sequence 5, Appli |
| 748 | 25 | 53.2 | 347 | 11 | US-11-087-099-4747 | Sequence 4747, Ap |
| 749 | 25 | 53.2 | 347 | 11 | US-11-087-099-7124 | Sequence 7124, Ap |
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| 752 | 25 | 53.2 | 349 | 11 | US-11-079-463-9482 | Sequence 9482, Ap |
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| 760 | 25 | 53.2 | 361 | 11 | US-11-012-762-42 | Sequence 42, Appl |
| 761 | 25 | 53.2 | 362 | 11 | US-11-233-683-3 | Sequence 3, Appli |
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| 763 | 25 | 53.2 | 364 | 11 | US-11-128-900-100 | Sequence 100, App |
| 764 | 25 | 53.2 | 364 | 11 | US-11-087-099-3856 | Sequence 3856, Ap |
| 765 | 25 | 53.2 | 364 | 11 | US-11-045-004-630 | Sequence 630, App |
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| 767 | 25 | 53.2 | 370 | 11 | US-11-075-047A-18 | Sequence 18, Appl |
| 768 | 25 | 53.2 | 370 | 11 | US-11-201-585-8 | Sequence 8, Appli |
| 769 | 25 | 53.2 | 371 | 11 | US-11-075-047A-30 | Sequence 30, Appl |
| 770 | 25 | 53.2 | 372 | 11 | US-11-075-047A-56 | Sequence 56, Appl |
| 771 | 25 | 53.2 | 373 | 11 | US-11-072-512-1995 | Sequence 1995, Ap |
| 772 | 25 | 53.2 | 374 | 11 | US-11-075-047A-24 | Sequence 24, Appl |
| 773 | 25 | 53.2 | 374 | 11 | US-11-188-298-10826 | Sequence 10826, A |
| 774 | 25 | 53.2 | 375 | 11 | US-11-075-047A-54 | Sequence 54, Appl |
| 775 | 25 | 53.2 | 375 | 11 | US-11-096-568A-13512 | Sequence 13512, A |
| 776 | 25 | 53.2 | 376 | 11 | US-11-075-047A-46 | Sequence 46, Appl |
| 777 | 25 | 53.2 | 377 | 9 | US-10-999-866-37 | Sequence 37, Appl |
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| 779 | 25 | 53.2 | 377 | 9 | US-10-935-005B-68 | Sequence 68, Appl |
| 780 | 25 | 53.2 | 377 | 10 | US-11-091-234A-37 | Sequence 37, Appl |
| 781 | 25 | 53.2 | 377 | 11 | US-11-061-821-37 | Sequence 37, Appl |
| 782 | 25 | 53.2 | 377 | 11 | US-11-102-621-113 | Sequence 113, App |
| 783 | 25 | 53.2 | 377 | 11 | US-11-102-621-115 | Sequence 115, App |
| 784 | 25 | 53.2 | 377 | 11 | US-11-124-620-3 | Sequence 3, Appli |
| 785 | 25 | 53.2 | 378 | 11 | US-11-201-825-60 | Sequence 60, Appl |
| 786 | 25 | 53.2 | 379 | 11 | US-11-079-463-6269 | Sequence 6269, Ap |
| 787 | 25 | 53.2 | 380 | 11 | US-11-075-047A-26 | Sequence 26, Appl |
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| 799 | 25 | 53.2 | 392 | 11 | US-11-242-294-50 | Sequence 50, Appl |
| 800 | 25 | 53.2 | 393 | 9 | US-10-523-588-13 | Sequence 13, Appl |
| 801 | 25 | 53.2 | 393 | 11 | US-11-127-817-17 | Sequence 17, Appl |
| 802 | 25 | 53.2 | 393 | 11 | US-11-188-298-13203 | Sequence 13203, A |
| 803 | 25 | 53.2 | 394 | 11 | US-11-183-615-17 | Sequence 17, Appl |
| 804 | 25 | 53.2 | 397 | 9 | US-10-878-556A-155 | Sequence 155, App |
| 805 | 25 | 53.2 | 397 | 11 | US-11-192-219-47 | Sequence 47, Appl |
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| 814 | 25 | 53.2 | 402 | 11 | US-11-024-251-31 | Sequence 31, Appl |
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| 816 | 25 | 53.2 | 406 | 9 | US-10-948-053-6 | Sequence 6, Appli |
| 817 | 25 | 53.2 | 407 | 9 | US-10-948-053-3 | Sequence 3, Appli |
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| 820 | 25 | 53.2 | 412 | 11 | US-11-093-808-8 | Sequence 8, Appli |
| 821 | 25 | 53.2 | 412 | 11 | US-11-093-808-9 | Sequence 9, Appli |
| 822 | 25 | 53.2 | 412 | 11 | US-11-093-808-10 | Sequence 10, Appl |
| 823 | 25 | 53.2 | 412 | 11 | US-11-093-808-11 | Sequence 11, Appl |
| 824 | 25 | 53.2 | 412 | 11 | US-11-093-808-12 | Sequence 12, Appl |

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| 828 | 25 | 53.2 | 415 | 9 | US-10-523-588-15 | Sequence 15, Appl |
| 829 | 25 | 53.2 | 415 | 11 | US-11-029-003-12 | Sequence 12, Appl |
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| 832 | 25 | 53.2 | 426 | 11 | US-11-288-493-42 | Sequence 42, Appl |
| 833 | 25 | 53.2 | 428 | 11 | US-11-029-003-24 | Sequence 24, Appl |
| 834 | 25 | 53.2 | 428 | 11 | US-11-186-422-10 | Sequence 10, Appl |
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| 836 | 25 | 53.2 | 430 | 11 | US-11-029-003-22 | Sequence 22, Appl |
| 837 | 25 | 53.2 | 431 | 11 | US-11-152-366-29 | Sequence 29, Appl |
| 838 | 25 | 53.2 | 434 | 11 | US-11-096-568A-21798 | Sequence 21798, A |
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| 842 | 25 | 53.2 | 438 | 11 | US-11-197-644-34 | Sequence 34, Appl |
| 843 | 25 | 53.2 | 439 | 11 | US-11-197-038-33 | Sequence 33, Appl |
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| 855 | 25 | 53.2 | 444 | 11 | US-11-029-003-16 | Sequence 16, Appl |
| 856 | 25 | 53.2 | 444 | 11 | US-11-173-969-6 | Sequence 6, Appli |
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| 858 | 25 | 53.2 | 446 | 11 | US-11-102-621-119 | Sequence 119, App |
| 859 | 25 | 53.2 | 446 | 11 | US-11-102-621-120 | Sequence 120, App |
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| 869 | 25 | 53.2 | 447 | 11 | US-11-102-621-134 | Sequence 134, App |
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| 871 | 25 | 53.2 | 447 | 11 | US-11-004-590-231 | Sequence 231, App |
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| 877 | 25 | 53.2 | 448 | 11 | US-11-182-908-16 | Sequence 16, Appl |
| 878 | 25 | 53.2 | 448 | 11 | US-11-183-205-56 | Sequence 56, Appl |
| 879 | 25 | 53.2 | 449 | 10 | US-11-254-182-14 | Sequence 14, Appl |
| 880 | 25 | 53.2 | 449 | 10 | US-11-254-182-24 | Sequence 24, Appl |
| 881 | 25 | 53.2 | 449 | 11 | US-11-080-587-6 | Sequence 6, Appli |
| 882 | 25 | 53.2 | 449 | 11 | US-11-154-337-15 | Sequence 15, Appl |
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| 885 | 25 | 53.2 | 449 | 11 | US-11-182-908-24 | Sequence 24, Appl |
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| 889 | 25 | 53.2 | 450 | 11 | US-11-199-739-701 | Sequence 701, App |
| 890 | 25 | 53.2 | 450 | 11 | US-11-199-739-723 | Sequence 723, App |
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| 893 | 25 | 53.2 | 451 | 9 | US-10-923-327-9 | Sequence 9, Appli |
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| 896 | 25 | 53.2 | 451 | 10 | US-11-254-182-42 | Sequence 42, Appl |
| 897 | 25 | 53.2 | 451 | 10 | US-11-254-182-43 | Sequence 43, Appl |
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| 904 | 25 | 53.2 | 451 | 11 | US-11-158-505-33 | Sequence 33, Appl |
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| 912 | 25 | 53.2 | 451 | 11 | US-11-208-422-21 | Sequence 21, Appl |
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| 926 | 25 | 53.2 | 452 | 11 | US-11-107-028-47 | Sequence 47, Appl |
| 927 | 25 | 53.2 | 452 | 11 | US-11-106-820-26 | Sequence 26, Appl |
| 928 | 25 | 53.2 | 452 | 11 | US-11-106-820-28 | Sequence 28, Appl |
| 929 | 25 | 53.2 | 452 | 11 | US-11-106-820-30 | Sequence 30, Appl |
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| 948 | 25 | 53.2 | 454 | 11 | US-11-072-512-2092 | Sequence 2092, Ap |
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| 951 | 25 | 53.2 | 455 | 9 | US-10-987-856-4 | Sequence 4, Appli |
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| 953 | 25 | 53.2 | 455 | 11 | US-11-089-803-4 | Sequence 4, Appli |
| 954 | 25 | 53.2 | 455 | 11 | US-11-098-686-10530 | Sequence 10530, A |
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| 961 | 25 | 53.2 | 457 | 11 | US-11-188-298-18237 | Sequence 18237, A |
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| 964 | 25 | 53.2 | 458 | 11 | US-11-089-803-2 | Sequence 2, Appli |
| 965 | 25 | 53.2 | 458 | 11 | US-11-089-803-6 | Sequence 6, Appli |
| 966 | 25 | 53.2 | 458 | 11 | US-11-149-738-2 | Sequence 2, Appli |
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| 976 | 25 | 53.2 | 461 | 11 | US-11-197-644-32 | Sequence 32, Appl |
| 977 | 25 | 53.2 | 462 | 11 | US-11-016-503-8 | Sequence 8, Appli |
| 978 | 25 | 53.2 | 462 | 11 | US-11-177-648-9 | Sequence 9, Appli |
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| 980 | 25 | 53.2 | 462 | 11 | US-11-177-648-27 | Sequence 27, Appl |
| 981 | 25 | 53.2 | 462 | 11 | US-11-177-648-28 | Sequence 28, Appl |
| 982 | 25 | 53.2 | 462 | 11 | US-11-177-648-29 | Sequence 29, Appl |
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| 984 | 25 | 53.2 | 462 | 11 | US-11-177-648-31 | Sequence 31, Appl |
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| 992 | 25 | 53.2 | 462 | 11 | US-11-177-648-96 | Sequence 96, Appl |
| 993 | 25 | 53.2 | 462 | 11 | US-11-177-648-97 | Sequence 97, Appl |
| 994 | 25 | 53.2 | 462 | 11 | US-11-177-648-98 | Sequence 98, Appl |
| 995 | 25 | 53.2 | 464 | 10 | US-11-219-563-132 | Sequence 132, App |
| 996 | 25 | 53.2 | 464 | 10 | US-11-301-554-1906 | Sequence 1906, Ap |
| 997 | 25 | 53.2 | 464 | 11 | US-11-072-512-3528 | Sequence 3528, Ap |
| 998 | 25 | 53.2 | 464 | 11 | US-11-075-047A-42 | Sequence 42, Appl |
| 999 | 25 | 53.2 | 464 | 11 | US-11-096-568A-21797 | Sequence 21797, A |
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ALIGNMENTS

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RESULT 1
US-10-530-061-1658
; Sequence 1658, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1658
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-1658

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Db          7 TTLEQQYNK 15


RESULT 2
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-13

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Db         86 TTLEQQYNK 94


RESULT 3
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
;  APPLICANT: HealthBanks Biotech CO. LTD.
;  TITLE OF INVENTION: Fusion protein for inhibiting cervcal cancer
;  FILE REFERENCE: P7819/0613
;  CURRENT APPLICATION NUMBER: US/11/206,138
;  CURRENT FILING DATE:  2005-08-18
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-11-206-138-3

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Db         93 TTLEQQYNK 101


RESULT 4
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
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;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-1

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Db         86 TTLEQQYNK 94


RESULT 5
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-3

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              |||||||||
Db         86 TTLEQQYNK 94


RESULT 6
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-5

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Db         86 TTLEQQYNK 94


RESULT 7
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
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;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-7

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Db        183 TTLEQQYNK 191


RESULT 8
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
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;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-9
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Db        183 TTLEQQYNK 191


RESULT 9
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
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;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-11

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Qy          1 TTLEQQYNK 9
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Db        183 TTLEQQYNK 191


RESULT 10
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; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
;  APPLICANT: PANG, XIAOWU
;  TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
;  TITLE OF INVENTION:  RECOMBINANT REPLICON
;  FILE REFERENCE: 116620-003
;  CURRENT APPLICATION NUMBER: US/11/192,923A
;  CURRENT FILING DATE:  2005-07-29
;  PRIOR APPLICATION NUMBER: CN 03115272.4
;  PRIOR FILING DATE: 2003-01-30
;  PRIOR APPLICATION NUMBER: CN 03115273.2
;  PRIOR FILING DATE: 2003-01-30
;  NUMBER OF SEQ ID NOS: 45
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;   LENGTH: 256
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-11-192-923A-2

  Query Match             100.0%;  Score 47;  DB 11;  Length 256;
  Best Local Similarity   100.0%;  Pred. No. 0.042;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              |||||||||
Db        191 TTLEQQYNK 199


RESULT 11
US-10-530-061-1657
; Sequence 1657, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1657
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-1657

  Query Match             76.6%;  Score 36;  DB 9;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.32;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQY 7
              |||||||
Db          9 TTLEQQY 15


RESULT 12
US-11-079-463-8741
; Sequence 8741, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRAC
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PATH00-03DIV2
;  CURRENT APPLICATION NUMBER: US/11/079,463
;  CURRENT FILING DATE:  2005-03-14
;  PRIOR APPLICATION NUMBER: US 60/128,705
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/540,209
;  PRIOR FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 8741
;   LENGTH: 449
;   TYPE: PRT
;   ORGANISM: B.fragilis
US-11-079-463-8741

  Query Match             74.5%;  Score 35;  DB 11;  Length 449;
  Best Local Similarity   55.6%;  Pred. No. 21;
  Matches    5;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              :|:|::|||
Db         34 STIEEEYNK 42


RESULT 13
US-11-045-004-2468
; Sequence 2468, Application US/11045004
; Publication No. US20060078901A1
; GENERAL INFORMATION:
```

```
;  APPLICANT: BUCHRIESER, CARMEN
;  APPLICANT:  FRANGEUL, LIONEL
;  APPLICANT:  COUVE, ELISABETH
;  APPLICANT:  RUSNIOK, CHRISTOPHE
;  APPLICANT:  FSIHI, HAFIDA
;  APPLICANT:  DEHOUX, PIERRE
;  APPLICANT:  DUSSURGET, OLIVIER
;  APPLICANT:  CHETOUANI, FARID
;  APPLICANT:  NEDJARI, HAFED
;  APPLICANT:  GLASER, PHILIPPE
;  APPLICANT:  KUNST, FRANCK
;  APPLICANT:  COSSART, PASCALE
;  APPLICANT:  DANIELS, JUSTIN
;  APPLICANT:  GOEBEI, WERNER
;  APPLICANT:  KREFT, JURGEN
;  APPLICANT:  KUHN, MICHAEL
;  APPLICANT:  NG, EVA
;  APPLICANT:  VAZQUEZ-BOLAND, ANTONIO
;  APPLICANT:  DOMINGUEZ-BERNAL, GUSTAVO
;  APPLICANT:  GARRIDO-GARCIA, PATRICIA
;  APPLICANT:  TIERREZ-MARTINEZ, ALBERTO
;  APPLICANT:  AMEND, ALEXANDRA
;  APPLICANT:  CHAKRABORTY, TRINAD
;  APPLICANT:  DOMANN, EUGEN
;  APPLICANT:  HAIN, THORSTEN
;  APPLICANT:  BERCHE, PATRICK
;  APPLICANT:  CHARBIT, ALAIN
;  APPLICANT:  DURANT, LIONEL
;  APPLICANT:  PEREZ-DIAZ, JOSE-CLAUDIO
;  APPLICANT:  BAQUERO, FERNANDO
;  APPLICANT:  GARCIA DEL PORTILLO, FRANCISCO
;  APPLICANT:  GOMEZ-LOPEZ, NURIA
;  APPLICANT:  MADUENIO, ENCARNA
;  APPLICANT:  PABLOS, BETRIZ DE
;  APPLICANT:  WEHLAND, JURGEN
;  APPLICANT:  KARST, UWE
;  APPLICANT:  ENTIAN, KARL-DIETER
;  APPLICANT:  HAUF, JORG
;  APPLICANT:  ROSE, MATTHIAS
;  APPLICANT:  VOSS, HAMUT
;  TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
;  FILE REFERENCE: 05394.0018-02
;  CURRENT APPLICATION NUMBER: US/11/045,004
;  CURRENT FILING DATE:  2005-01-28
;  PRIOR APPLICATION NUMBER: 10/637,657
;  PRIOR FILING DATE: 2003-08-11
;  PRIOR APPLICATION NUMBER: 10/257,023
;  PRIOR FILING DATE: 2002-10-08
;  PRIOR APPLICATION NUMBER: PCT/FR01/01118
;  PRIOR FILING DATE: 2001-04-11
;  PRIOR APPLICATION NUMBER: FR 00/04,629
;  PRIOR FILING DATE: 2000-04-11
;  NUMBER OF SEQ ID NOS: 2854
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2468
;   LENGTH: 324
;   TYPE: PRT
;   ORGANISM: Listeria monocytogenes
US-11-045-004-2468

  Query Match             70.2%;  Score 33;  DB 11;  Length 324;
  Best Local Similarity   85.7%;  Pred. No. 37;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 LEQQYNK 9
              |||:|||
Db        260 LEQKYNK 266


RESULT 14
US-11-098-686-10234
; Sequence 10234, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
;  APPLICANT: Kapur, Vivek and Gebhart, Connie J.
;  TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
;  TITLE OF INVENTION:  FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
;  FILE REFERENCE: 09531-128001
;  CURRENT APPLICATION NUMBER: US/11/098,686
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31318
;  PRIOR FILING DATE: 2003-10-01
;  PRIOR APPLICATION NUMBER: US 60/416,395
;  PRIOR FILING DATE: 2002-10-04
;  NUMBER OF SEQ ID NOS: 11433
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10234
;   LENGTH: 457
;   TYPE: PRT
;   ORGANISM: Lawsonia intracellularis
US-11-098-686-10234

  Query Match             70.2%;  Score 33;  DB 11;  Length 457;
  Best Local Similarity   75.0%;  Pred. No. 54;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 TLEQQYNK 9
              |:|| |||
Db         24 TIEQLYNK 31


RESULT 15
US-11-188-298-12769
; Sequence 12769, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 12769
;   LENGTH: 506
;   TYPE: PRT
;   ORGANISM: Ralstonia metallidurans
US-11-188-298-12769

  Query Match             70.2%;  Score 33;  DB 11;  Length 506;
  Best Local Similarity   100.0%;  Pred. No. 61;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 EQQYNK 9
              ||||||
Db        346 EQQYNK 351


RESULT 16
US-10-330-773-488
; Sequence 488, Application US/10330773
; Publication No. US20060040262A1
; GENERAL INFORMATION:
;  APPLICANT: David W. Morris
;  APPLICANT:  Marc Malandro
;  TITLE OF INVENTION: Novel Compositions and Methods in Cancer
;  FILE REFERENCE: 529452001300
;  CURRENT APPLICATION NUMBER: US/10/330,773
;  CURRENT FILING DATE:  2002-12-27
;  NUMBER OF SEQ ID NOS: 981
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 488
;   LENGTH: 574
;   TYPE: PRT
;   ORGANISM: Homo sapiens
```

US-10-330-773-488

Query Match 70.2%; Score 33; DB 9; Length 574;
Best Local Similarity 85.7%; Pred. No. 70;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 LEQQYNK 9
||:||||
Db 225 LEKQYNK 231

RESULT 17
US-10-330-773-485
; Sequence 485, Application US/10330773
; Publication No. US20060040262A1
; GENERAL INFORMATION:
; APPLICANT: David W. Morris
; APPLICANT: Marc Malandro
; TITLE OF INVENTION: Novel Compositions and Methods in Cancer
; FILE REFERENCE: 529452001300
; CURRENT APPLICATION NUMBER: US/10/330,773
; CURRENT FILING DATE: 2002-12-27
; NUMBER OF SEQ ID NOS: 981
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 485
; LENGTH: 691
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-330-773-485

Query Match 70.2%; Score 33; DB 9; Length 691;
Best Local Similarity 85.7%; Pred. No. 86;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 LEQQYNK 9
||:||||
Db 344 LEKQYNK 350

RESULT 18
US-11-010-239-20
; Sequence 20, Application US/11010239
; Publication No. US20060015970A1
; GENERAL INFORMATION:
; APPLICANT: Roger PENNELL
; APPLICANT: Jack OKAMURO
; APPLICANT: Richard SCHNEEBERGER
; APPLICANT: Yiwen FANG
; APPLICANT: Shing KWOK
; APPLICANT: Diane JOFUKU
; APPLICANT: Edward A. KIEGLE
; APPLICANT: Jonathan DONSON
; APPLICANT: Nestor APUYA
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND POLYPEPTIDES ENCODED THEREBY USEFUL FOR
; TITLE OF INVENTION: MODIFYING PLANT CHARACTERISTICS
; FILE REFERENCE: 2750-1585PUS2
; CURRENT APPLICATION NUMBER: US/11/010,239
; CURRENT FILING DATE: 2004-12-09
; PRIOR APPLICATION NUMBER: US 60/529,352
; PRIOR FILING DATE: 2003-12-12
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 20
; LENGTH: 466
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(466)
; OTHER INFORMATION: 12329827_protein_ID_12329829
US-11-010-239-20

Query Match 68.1%; Score 32; DB 11; Length 466;
Best Local Similarity 85.7%; Pred. No. 89;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TLEQQYN 8
|||||:
Db 275 TLEQQYH 281

RESULT 19
US-11-087-099-8319
; Sequence 8319, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 8319
; LENGTH: 897
; TYPE: PRT
; ORGANISM: Bacillus anthracis str. A2012
US-11-087-099-8319

Query Match 68.1%; Score 32; DB 11; Length 897;
Best Local Similarity 85.7%; Pred. No. 1.8e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 LEQQYNK 9
|||||:|
Db 179 LEQQYSK 185

RESULT 20
US-11-052-554A-380
; Sequence 380, Application US/11052554A
; Publication No. US20050288866A1
; GENERAL INFORMATION:
; APPLICANT: Sachdeva, et al.
; TITLE OF INVENTION: COMPUTATIONAL METHOD FOR IDENTIFYING ADHESIN AND ADHESIN-LIKE
; TITLE OF INVENTION: PROTEINS OF THERAPEUTIC POTENTIAL
; FILE REFERENCE: 30853/40359A
; CURRENT APPLICATION NUMBER: US/11/052,554A
; CURRENT FILING DATE: 2005-02-07
; PRIOR APPLICATION NUMBER: US 60/589,227
; PRIOR FILING DATE: 2004-07-20
; PRIOR APPLICATION NUMBER: IN 173/DEL/2004
; PRIOR FILING DATE: 2004-02-06
; NUMBER OF SEQ ID NOS: 763
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 380
; LENGTH: 1086
; TYPE: PRT
; ORGANISM: Streptococcus pyogenes MGAS8232
US-11-052-554A-380

Query Match 68.1%; Score 32; DB 11; Length 1086;
Best Local Similarity 55.6%; Pred. No. 2.2e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
| |:::|||
Db 633 TQLQEEYNK 641

RESULT 21
US-11-188-298-15598
; Sequence 15598, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT

```
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 15598
;   LENGTH: 297
;   TYPE: PRT
;   ORGANISM: Actinobacillus pleuropneumoniae serovar 1 str. 4074
US-11-188-298-15598

  Query Match             67.0%;  Score 31.5;  DB 11;  Length 297;
  Best Local Similarity   88.9%;  Pred. No. 68;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    1;  Gaps    1;

Qy          1 TTL-EQQYN 8
              ||| |||||
Db         28 TTLAEQQYN 36


RESULT 22
US-09-995-493-28
; Sequence 28, Application US/09995493
; Publication No. US20060035293A1
; GENERAL INFORMATION:
;  APPLICANT: Handfield, Martin
;  APPLICANT:  Hillman, Jeffrey
;  APPLICANT:  Progulske-Fox, Ann
;  TITLE OF INVENTION: Identification of Actinobacillus actinomycetemcomitans Antigens f
;  TITLE OF INVENTION:  in the Diagnosis, Treatment, and Monitoring of Periodontal Disea
;  FILE REFERENCE: MBHB01-662
;  CURRENT APPLICATION NUMBER: US/09/995,493
;  CURRENT FILING DATE:  2001-11-28
;  NUMBER OF SEQ ID NOS: 234
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 28
;   LENGTH: 156
;   TYPE: PRT
;   ORGANISM: Actinobacillus actinomycetemcomitans
US-09-995-493-28

  Query Match             66.0%;  Score 31;  DB 7;  Length 156;
  Best Local Similarity   55.6%;  Pred. No. 43;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              ||:|:|| :
Db         86 TTVEKQYQR 94


RESULT 23
US-11-172-740-1460
; Sequence 1460, Application US/11172740
; Publication No. US20060057724A1
; GENERAL INFORMATION:
;  APPLICANT: MASCIA, Peter
;  APPLICANT:  ALEXANDROV, Nickolai
;  APPLICANT:  BROVER, Vyacheslav
;  TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND POLYPEPTIDES ENCODED THEREBY USEFUL FOR
;  TITLE OF INVENTION:  PLANT CHARACTERISTICS AND PHENOTYPES
;  FILE REFERENCE: 2750-1602PUS2
;  CURRENT APPLICATION NUMBER: US/11/172,740
;  CURRENT FILING DATE:  2005-06-30
;  PRIOR APPLICATION NUMBER: 60/583,621
;  PRIOR FILING DATE: 2004-06-30
;  PRIOR APPLICATION NUMBER: 60/584,829
;  PRIOR FILING DATE: 2004-06-30
;  PRIOR APPLICATION NUMBER: 60/584,800
;  PRIOR FILING DATE: 2004-06-30
;  NUMBER OF SEQ ID NOS: 2523
; SEQ ID NO 1460
;   LENGTH: 208
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(208)
;   OTHER INFORMATION: Ceres CLONE ID no. 1351153
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION:
;   OTHER INFORMATION: Utility: Useful for increasing chlorophyll and photosynthetic capa
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION:
;   OTHER INFORMATION: Utility: Useful for making shorter plants and plants with modifie
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION:
;   OTHER INFORMATION: Utility: Useful for making smaller plants
US-11-172-740-1460

  Query Match             66.0%;  Score 31;  DB 11;  Length 208;
  Best Local Similarity   71.4%;  Pred. No. 59;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 LEQQYNK 9
              ||::|||
Db        104 LEEEYNK 110


RESULT 24
US-11-188-298-3438
; Sequence 3438, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 3438
;   LENGTH: 213
;   TYPE: PRT
;   ORGANISM: Thermosynechococcus elongatus BP-1
US-11-188-298-3438

  Query Match             66.0%;  Score 31;  DB 11;  Length 213;
  Best Local Similarity   85.7%;  Pred. No. 60;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 LEQQYNK 9
              | |||||
Db        206 LAQQYNK 212


RESULT 25
US-11-172-740-1462
; Sequence 1462, Application US/11172740
; Publication No. US20060057724A1
; GENERAL INFORMATION:
;  APPLICANT: MASCIA, Peter
;  APPLICANT:  ALEXANDROV, Nickolai
;  APPLICANT:  BROVER, Vyacheslav
;  TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND POLYPEPTIDES ENCODED THEREBY USEFUL FOR N
;  TITLE OF INVENTION:  PLANT CHARACTERISTICS AND PHENOTYPES
;  FILE REFERENCE: 2750-1602PUS2
;  CURRENT APPLICATION NUMBER: US/11/172,740
;  CURRENT FILING DATE:  2005-06-30
;  PRIOR APPLICATION NUMBER: 60/583,621
;  PRIOR FILING DATE: 2004-06-30
;  PRIOR APPLICATION NUMBER: 60/584,829
```

; PRIOR FILING DATE: 2004-06-30
; PRIOR APPLICATION NUMBER: 60/584,800
; PRIOR FILING DATE: 2004-06-30
; NUMBER OF SEQ ID NOS: 2523
; SEQ ID NO 1462
; LENGTH: 217
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(217)
; OTHER INFORMATION: Public GI no. 4006894
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utility: Useful for increasing chlorophyll and photosynthetic cap
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utility: Useful for making shorter plants and plants with modifie
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utility: Useful for making smaller plants
US-11-172-740-1462

Query Match 66.0%; Score 31; DB 11; Length 217;
Best Local Similarity 71.4%; Pred. No. 61;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 3 LEQQYNK 9
||::|||
Db 113 LEEEYNK 119

RESULT 26
US-11-045-004-1887
; Sequence 1887, Application US/11045004
; Publication No. US20060078901A1
; GENERAL INFORMATION:
; APPLICANT: BUCHRIESER, CARMEN
; APPLICANT: FRANGEUL, LIONEL
; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIOK, CHRISTOPHE
; APPLICANT: FSIHI, HAFIDA
; APPLICANT: DEHOUX, PIERRE
; APPLICANT: DUSSURGET, OLIVIER
; APPLICANT: CHETOUANI, FARID
; APPLICANT: NEDJARI, HAFED
; APPLICANT: GLASER, PHILIPPE
; APPLICANT: KUNST, FRANCK
; APPLICANT: COSSART, PASCALE
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEL, WERNER
; APPLICANT: KREFT, JURGEN
; APPLICANT: KUHN, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
; APPLICANT: CHAKRABORTY, TRINAD
; APPLICANT: DOMANN, EUGEN
; APPLICANT: HAIN, THORSTEN
; APPLICANT: BERCHE, PATRICK
; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIONEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: GOMEZ-LOPEZ, NURIA
; APPLICANT: MADUENIO, ENCARNA
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: HAUF, JORG
; APPLICANT: ROSE, MATTHIAS
; APPLICANT: VOSS, HAMUT
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
; FILE REFERENCE: 05394.0018-02
; CURRENT APPLICATION NUMBER: US/11/045,004
; CURRENT FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 10/637,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: 10/257,023
; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: PCT/FR01/01118
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: FR 00/04,629
; PRIOR FILING DATE: 2000-04-11
; NUMBER OF SEQ ID NOS: 2854
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1887
; LENGTH: 427
; TYPE: PRT
; ORGANISM: Listeria monocytogenes
US-11-045-004-1887

Query Match 66.0%; Score 31; DB 11; Length 427;
Best Local Similarity 55.6%; Pred. No. 1.3e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
| :||:|:|
Db 391 TKIEQEYDK 399

RESULT 27
US-11-045-004-2412
; Sequence 2412, Application US/11045004
; Publication No. US20060078901A1
; GENERAL INFORMATION:
; APPLICANT: BUCHRIESER, CARMEN
; APPLICANT: FRANGEUL, LIONEL
; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIOK, CHRISTOPHE
; APPLICANT: FSIHI, HAFIDA
; APPLICANT: DEHOUX, PIERRE
; APPLICANT: DUSSURGET, OLIVIER
; APPLICANT: CHETOUANI, FARID
; APPLICANT: NEDJARI, HAFED
; APPLICANT: GLASER, PHILIPPE
; APPLICANT: KUNST, FRANCK
; APPLICANT: COSSART, PASCALE
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEL, WERNER
; APPLICANT: KREFT, JURGEN
; APPLICANT: KUHN, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
; APPLICANT: CHAKRABORTY, TRINAD
; APPLICANT: DOMANN, EUGEN
; APPLICANT: HAIN, THORSTEN
; APPLICANT: BERCHE, PATRICK
; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIONEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: GOMEZ-LOPEZ, NURIA

; APPLICANT: MADUENIO, ENCARNA
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: HAUF, JORG
; APPLICANT: ROSE, MATTHIAS
; APPLICANT: VOSS, HAMUT
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
; FILE REFERENCE: 05394.0018-02
; CURRENT APPLICATION NUMBER: US/11/045,004
; CURRENT FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 10/637,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: 10/257,023
; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: PCT/FR01/01118
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: FR 00/04,629
; PRIOR FILING DATE: 2000-04-11
; NUMBER OF SEQ ID NOS: 2854
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2412
; LENGTH: 483
; TYPE: PRT
; ORGANISM: Listeria monocytogenes
US-11-045-004-2412

Query Match 66.0%; Score 31; DB 11; Length 483;
Best Local Similarity 66.7%; Pred. No. 1.5e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
||||: | |
Db 335 TTLEELYTK 343

RESULT 28
US-11-079-463-8339
; Sequence 8339, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 8339
; LENGTH: 746
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-8339

Query Match 66.0%; Score 31; DB 11; Length 746;
Best Local Similarity 55.6%; Pred. No. 2.4e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
||: ::|||
Db 601 TTVTERYNK 609

RESULT 29
US-10-770-726-78
; Sequence 78, Application US/10770726
; Publication No. US20050266409A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING, PREVENTING, AND TREATING
; TITLE OF INVENTION: CANCERS
; FILE REFERENCE: AM101079 (031896-010000)
; CURRENT APPLICATION NUMBER: US/10/770,726
; CURRENT FILING DATE: 2004-02-04
; NUMBER OF SEQ ID NOS: 48640
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 78
; LENGTH: 879
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-770-726-78

Query Match 66.0%; Score 31; DB 9; Length 879;
Best Local Similarity 55.6%; Pred. No. 2.8e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TTLEQQYNK 9
|:|:|:| |
Db 837 TSLQQEYKK 845

RESULT 30
US-10-793-626-3088
; Sequence 3088, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3088
; LENGTH: 155
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-3088

Query Match 63.8%; Score 30; DB 9; Length 155;
Best Local Similarity 75.0%; Pred. No. 68;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 TLEQQYNK 9
|:||| ||
Db 15 TVEQQENK 22

RESULT 31
US-11-096-568A-5557
; Sequence 5557, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 5557
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Glycine max

```
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(256)
;   OTHER INFORMATION: Ceres Seq. ID no. 14310704
US-11-096-568A-5557

  Query Match             63.8%;  Score 30;  DB 11;  Length 256;
  Best Local Similarity   83.3%;  Pred. No. 1.2e+02;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 EQQYNK 9
              |:||||
Db        122 EEQYNK 127


RESULT 32
US-10-469-469-118
; Sequence 118, Application US/10469469
; Publication No. US20060079493A1
; GENERAL INFORMATION:
;  APPLICANT: FRITZ, LAWRENCE C.
;  APPLICANT:  BURROWS, FRANCIS J.
;  TITLE OF INVENTION: METHODS FOR TREATING GENETICALLY-DEFINED PROLIFERATIVE
;  TITLE OF INVENTION:  DISORDERS WITH HSP90 INHIBITORS
;  FILE REFERENCE: CON-0010-USN
;  CURRENT APPLICATION NUMBER: US/10/469,469
;  CURRENT FILING DATE:  2003-08-27
;  PRIOR APPLICATION NUMBER: PCT/US02/06518
;  PRIOR FILING DATE: 2002-03-01
;  PRIOR APPLICATION NUMBER: 60/272,751
;  PRIOR FILING DATE: 2001-03-01
;  NUMBER OF SEQ ID NOS: 330
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 118
;   LENGTH: 277
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-469-469-118

  Query Match             63.8%;  Score 30;  DB 9;  Length 277;
  Best Local Similarity   71.4%;  Pred. No. 1.3e+02;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 LEQQYNK 9
              :||:|||
Db         56 VEQKYNK 62


RESULT 33
US-11-188-298-2987
; Sequence 2987, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 2987
;   LENGTH: 299
;   TYPE: PRT
;   ORGANISM: Ferroplasma acidarmanus
US-11-188-298-2987

  Query Match             63.8%;  Score 30;  DB 11;  Length 299;
  Best Local Similarity   71.4%;  Pred. No. 1.4e+02;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 LEQQYNK 9
              |::||||
Db        117 LKEQYNK 123


RESULT 34
US-11-096-568A-5556
; Sequence 5556, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 5556
;   LENGTH: 335
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(335)
;   OTHER INFORMATION: Ceres Seq. ID no. 14310703
US-11-096-568A-5556

  Query Match             63.8%;  Score 30;  DB 11;  Length 335;
  Best Local Similarity   83.3%;  Pred. No. 1.6e+02;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 EQQYNK 9
              |:||||
Db        201 EEQYNK 206


RESULT 35
US-11-096-568A-5555
; Sequence 5555, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 5555
;   LENGTH: 340
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(340)
;   OTHER INFORMATION: Ceres Seq. ID no. 14310702
US-11-096-568A-5555

  Query Match             63.8%;  Score 30;  DB 11;  Length 340;
  Best Local Similarity   83.3%;  Pred. No. 1.6e+02;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 EQQYNK 9
              |:||||
Db        206 EEQYNK 211


RESULT 36
US-11-174-816-11
; Sequence 11, Application US/11174816
; Publication No. US20060009441A1
; GENERAL INFORMATION:
;  APPLICANT: EBELING, MARTIN
;  APPLICANT:  HOENER, MARIUS
;  APPLICANT:  LINDEMANN, LOTHAR
```

```
;  TITLE OF INVENTION: HUMAN TRACE AMINE ASSOCIATED RECEPTORS
;  FILE REFERENCE: 22645
;  CURRENT APPLICATION NUMBER: US/11/174,816
;  CURRENT FILING DATE:  2005-07-05
;  PRIOR APPLICATION NUMBER: EP 04103261.6
;  PRIOR FILING DATE: 2004-07-08
;  NUMBER OF SEQ ID NOS: 115
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 11
;   LENGTH: 348
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   OTHER INFORMATION: huTAAR 4 Y fixed, amino acid sequence of
;   OTHER INFORMATION: repaired pseudogene
US-11-174-816-11

  Query Match             63.8%;  Score 30;  DB 11;  Length 348;
  Best Local Similarity   75.0%;  Pred. No. 1.6e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYN 8
              ||||  ||
Db        290 TTLEDLYN 297


RESULT 37
US-11-098-686-10767
; Sequence 10767, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
;  APPLICANT: Kapur, Vivek and Gebhart, Connie J.
;  TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
;  TITLE OF INVENTION:  FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
;  FILE REFERENCE: 09531-128001
;  CURRENT APPLICATION NUMBER: US/11/098,686
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31318
;  PRIOR FILING DATE: 2003-10-01
;  PRIOR APPLICATION NUMBER: US 60/416,395
;  PRIOR FILING DATE: 2002-10-04
;  NUMBER OF SEQ ID NOS: 11433
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10767
;   LENGTH: 386
;   TYPE: PRT
;   ORGANISM: Lawsonia intracellularis
US-11-098-686-10767

  Query Match             63.8%;  Score 30;  DB 11;  Length 386;
  Best Local Similarity   55.6%;  Pred. No. 1.8e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              | :|| :||
Db        108 TIMEQMFNK 116


RESULT 38
US-11-188-298-13487
; Sequence 13487, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 13487
;   LENGTH: 565
;   TYPE: PRT
;   ORGANISM: Glycine max
US-11-188-298-13487

  Query Match             63.8%;  Score 30;  DB 11;  Length 565;
  Best Local Similarity   66.7%;  Pred. No. 2.8e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              :||  ||||
Db         46 STLALQYNK 54


RESULT 39
US-11-188-298-22261
; Sequence 22261, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 22261
;   LENGTH: 565
;   TYPE: PRT
;   ORGANISM: Glycine max
US-11-188-298-22261

  Query Match             63.8%;  Score 30;  DB 11;  Length 565;
  Best Local Similarity   66.7%;  Pred. No. 2.8e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              :||  ||||
Db         46 STLALQYNK 54


RESULT 40
US-11-155-288-20
; Sequence 20, Application US/11155288
; Publication No. US20060008468A1
; GENERAL INFORMATION:
;  APPLICANT: Chiang, Chih-Sheng
;  APPLICANT:  Simard, John J.L.
;  TITLE OF INVENTION: COMBINATIONS OF TUMOR-ASSOCIATED
;  TITLE OF INVENTION:  ANTIGENS IN DIAGNOSTICS FOR VARIOUS TYPES OF CANCERS
;  FILE REFERENCE: MANNK.050A
;  CURRENT APPLICATION NUMBER: US/11/155,288
;  CURRENT FILING DATE:  2005-06-17
;  PRIOR APPLICATION NUMBER: 60/580,969
;  PRIOR FILING DATE: 2004-06-17
;  NUMBER OF SEQ ID NOS: 40
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 20
;   LENGTH: 976
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-155-288-20

  Query Match             63.8%;  Score 30;  DB 11;  Length 976;
  Best Local Similarity   66.7%;  Pred. No. 5.1e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              || || |:|
Db        489 TTSEQYYSK 497


RESULT 41
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```
US-11-098-686-10550
; Sequence 10550, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
;  APPLICANT: Kapur, Vivek and Gebhart, Connie J.
;  TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
;  TITLE OF INVENTION:  FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
;  FILE REFERENCE: 09531-128001
;  CURRENT APPLICATION NUMBER: US/11/098,686
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31318
;  PRIOR FILING DATE: 2003-10-01
;  PRIOR APPLICATION NUMBER: US 60/416,395
;  PRIOR FILING DATE: 2002-10-04
;  NUMBER OF SEQ ID NOS: 11433
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10550
;   LENGTH: 1155
;   TYPE: PRT
;   ORGANISM: Lawsonia intracellularis
US-11-098-686-10550

  Query Match             63.8%;  Score 30;  DB 11;  Length 1155;
  Best Local Similarity   66.7%;  Pred. No. 6.1e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYNK 9
              ||:||  ||
Db        278 TTIEQWVNK 286


RESULT 42
US-10-530-253-18
; Sequence 18, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 35
US-10-530-253-18

  Query Match             61.7%;  Score 29;  DB 9;  Length 149;
  Best Local Similarity   75.0%;  Pred. No. 1e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 TLEQQYNK 9
              |||:| ||
Db         87 TLEKQCNK 94


RESULT 43
US-11-096-568A-5767
; Sequence 5767, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 5767
;   LENGTH: 261
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(261)
;   OTHER INFORMATION: Ceres Seq. ID no. 14311670
US-11-096-568A-5767

  Query Match             61.7%;  Score 29;  DB 11;  Length 261;
  Best Local Similarity   75.0%;  Pred. No. 1.9e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYN 8
              |||  |||
Db        156 TTLLMQYN 163


RESULT 44
US-11-096-568A-5766
; Sequence 5766, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides I
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 5766
;   LENGTH: 263
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(263)
;   OTHER INFORMATION: Ceres Seq. ID no. 14311669
US-11-096-568A-5766

  Query Match             61.7%;  Score 29;  DB 11;  Length 263;
  Best Local Similarity   75.0%;  Pred. No. 1.9e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYN 8
              |||  |||
Db        158 TTLLMQYN 165


RESULT 45
US-11-146-093-2
; Sequence 2, Application US/11146093
; Publication No. US20060003426A1
; GENERAL INFORMATION:
;  APPLICANT: SUGIYAMA, MASAKAZU
;  APPLICANT:  WATANABE, KUNIHIKO
;  APPLICANT:  MORI, KENICHI
;  APPLICANT:  NOZAKI, HIROYUKI
;  TITLE OF INVENTION: NOVEL ALDOLASE, AND METHOD FOR PRODUCING OPTICALLY ACTIVE IHOG
;  TITLE OF INVENTION:  AND MONATIN
;  FILE REFERENCE: 272798US0
;  CURRENT APPLICATION NUMBER: US/11/146,093
;  CURRENT FILING DATE:  2005-06-07
;  PRIOR APPLICATION NUMBER: JP 2004-169188
;  PRIOR FILING DATE: 2004-06-07
;  PRIOR APPLICATION NUMBER: JP 2004-375769
;  PRIOR FILING DATE: 2004-12-27
;  NUMBER OF SEQ ID NOS: 23
```

```
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2
;   LENGTH: 265
;   TYPE: PRT
;   ORGANISM: Sphingomonas sp.
US-11-146-093-2

  Query Match             61.7%;  Score 29;  DB 11;  Length 265;
  Best Local Similarity   62.5%;  Pred. No. 1.9e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TTLEQQYN 8
              :|:|| ||
Db        114 STVEQAYN 121


RESULT 46
US-10-485-517-413
; Sequence 413, Application US/10485517
; Publication No. US20050256299A1
; GENERAL INFORMATION:
;  APPLICANT: University of Sheffield
;  APPLICANT:  Biosynexus Incorporated
;  APPLICANT:  Foster, Simon
;  APPLICANT:  Mond, James
;  TITLE OF INVENTION: Antigenic Polypeptides
;  FILE REFERENCE: P100629WO
;  CURRENT APPLICATION NUMBER: US/10/485,517
;  CURRENT FILING DATE:  2004-02-02
;  PRIOR APPLICATION NUMBER: GB 0118825.9
;  PRIOR FILING DATE: 2001-08-02
;  PRIOR APPLICATION NUMBER: GB 0200349.9
;  PRIOR FILING DATE: 2002-01-09
;  NUMBER OF SEQ ID NOS: 424
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 413
;   LENGTH: 270
;   TYPE: PRT
;   ORGANISM: Staphylococcus epidermidis
US-10-485-517-413

  Query Match             61.7%;  Score 29;  DB 9;  Length 270;
  Best Local Similarity   71.4%;  Pred. No. 2e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

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Db         43 TIAQQYN 49


RESULT 47
US-11-079-463-7515
; Sequence 7515, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PATH00-03DIV2
;  CURRENT APPLICATION NUMBER: US/11/079,463
;  CURRENT FILING DATE:  2005-03-14
;  PRIOR APPLICATION NUMBER: US 60/128,705
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/540,209
;  PRIOR FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 7515
;   LENGTH: 300
;   TYPE: PRT
;   ORGANISM: B.fragilis
US-11-079-463-7515

  Query Match             61.7%;  Score 29;  DB 11;  Length 300;
  Best Local Similarity   75.0%;  Pred. No. 2.2e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

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Db        196 TLEQKENK 203


RESULT 48
US-11-051-720-1349
; Sequence 1349, Application US/11051720
; Publication No. US20060046257A1
; GENERAL INFORMATION:
;  APPLICANT: Compugen Ltd
;  TITLE OF INVENTION: NOVEL NUCLEOTIDE AND AMINO ACID SEQUENCES, AND ASSAYS AND METHODS
;  TITLE OF INVENTION:  THEREOF FOR DIAGNOSIS OF LUNG CANCER
;  FILE REFERENCE: 1847.1002
;  CURRENT APPLICATION NUMBER: US/11/051,720
;  CURRENT FILING DATE:  2005-01-27
;  NUMBER OF SEQ ID NOS: 1780
; SEQ ID NO 1349
;   LENGTH: 324
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-051-720-1349

  Query Match             61.7%;  Score 29;  DB 11;  Length 324;
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Db         57 TTQEQVYN 64


RESULT 49
US-11-096-568A-26913
; Sequence 26913, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 26913
;   LENGTH: 375
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(375)
;   OTHER INFORMATION: Ceres Seq. ID no. 13633476
US-11-096-568A-26913

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Db        275 TRLEGQYN 282


RESULT 50
US-11-051-720-1348
; Sequence 1348, Application US/11051720
; Publication No. US20060046257A1
; GENERAL INFORMATION:
;  APPLICANT: Compugen Ltd
;  TITLE OF INVENTION: NOVEL NUCLEOTIDE AND AMINO ACID SEQUENCES, AND ASSAYS AND METHODS
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; TITLE OF INVENTION: THEREOF FOR DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 1847.1002
; CURRENT APPLICATION NUMBER: US/11/051,720
; CURRENT FILING DATE: 2005-01-27
; NUMBER OF SEQ ID NOS: 1780
; SEQ ID NO 1348
; LENGTH: 385
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-051-720-1348

Query Match 61.7%; Score 29; DB 11; Length 385;
Best Local Similarity 75.0%; Pred. No. 2.9e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Qy          1 TTLEQQYN 8
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Db         57 TTQEQVYN 64
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Search completed: May 5, 2006, 07:56:38
Job time : 10.4 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 04:48:55 ; Search time 20.7 Seconds
(without alignments)
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Title: US-08-170-344-53
Perfect score: 54
Sequence: 1 QQYNKPLCD 9

Scoring table: BLOSUM62
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Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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4: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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| 3 | 54 | 100.0 | 151 | 2 | US-09-701-080C-18 | Sequence 18, Appl |
| 4 | 54 | 100.0 | 158 | 2 | US-09-980-523A-2 | Sequence 2, Appli |
| 5 | 54 | 100.0 | 162 | 1 | US-08-316-239B-3 | Sequence 3, Appli |
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| 12 | 54 | 100.0 | 266 | 2 | US-09-367-309A-1 | Sequence 1, Appli |
| 13 | 54 | 100.0 | 273 | 2 | US-09-485-885-4 | Sequence 4, Appli |
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| 15 | 54 | 100.0 | 371 | 2 | US-09-485-885-6 | Sequence 6, Appli |
| 16 | 54 | 100.0 | 390 | 2 | US-09-485-885-14 | Sequence 14, Appl |
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| 18 | 45 | 83.3 | 9 | 2 | US-08-159-339A-233 | Sequence 233, App |
| 19 | 44 | 81.5 | 10 | 2 | US-09-574-749B-43 | Sequence 43, Appl |
| 20 | 38 | 70.4 | 227 | 2 | US-09-270-767-40613 | Sequence 40613, A |
| 21 | 38 | 70.4 | 227 | 2 | US-09-270-767-55829 | Sequence 55829, A |
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| 29 | 35 | 64.8 | 1088 | 2 | US-09-949-016-6644 | Sequence 6644, Ap |
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| 31 | 35 | 64.8 | 2644 | 2 | US-09-029-047C-2 | Sequence 2, Appli |
| 32 | 34.5 | 63.9 | 465 | 2 | US-09-489-039A-10910 | Sequence 10910, A |
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| 36 | 33 | 61.1 | 58 | 2 | US-09-270-767-59624 | Sequence 59624, A |
| 37 | 33 | 61.1 | 73 | 2 | US-09-270-767-61424 | Sequence 61424, A |
| 38 | 33 | 61.1 | 83 | 2 | US-09-270-767-45891 | Sequence 45891, A |
| 39 | 33 | 61.1 | 339 | 2 | US-09-120-365-62 | Sequence 62, Appl |
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| 41 | 33 | 61.1 | 339 | 2 | US-09-515-039-62 | Sequence 62, Appl |
| 42 | 33 | 61.1 | 339 | 2 | US-09-515-039-80 | Sequence 80, Appl |
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| 51 | 32 | 59.3 | 147 | 2 | US-09-270-767-36432 | Sequence 36432, A |
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| 53 | 32 | 59.3 | 154 | 2 | US-10-012-819-8 | Sequence 8, Appli |
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| 57 | 32 | 59.3 | 251 | 2 | US-09-902-540-9837 | Sequence 9837, Ap |
| 58 | 32 | 59.3 | 306 | 2 | US-09-487-558B-84 | Sequence 84, Appl |
| 59 | 32 | 59.3 | 309 | 2 | US-09-248-796A-20897 | Sequence 20897, A |
| 60 | 32 | 59.3 | 322 | 2 | US-09-107-532A-5708 | Sequence 5708, Ap |
| 61 | 32 | 59.3 | 369 | 1 | US-08-181-629A-4 | Sequence 4, Appli |
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| 64 | 32 | 59.3 | 400 | 2 | US-09-536-784-190 | Sequence 190, App |
| 65 | 32 | 59.3 | 400 | 2 | US-09-765-271-190 | Sequence 190, App |
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| 67 | 32 | 59.3 | 413 | 2 | US-09-248-796A-14455 | Sequence 14455, A |
| 68 | 32 | 59.3 | 428 | 2 | US-10-104-047-3344 | Sequence 3344, Ap |
| 69 | 32 | 59.3 | 572 | 2 | US-09-107-433-3479 | Sequence 3479, Ap |
| 70 | 32 | 59.3 | 583 | 2 | US-09-583-110-3571 | Sequence 3571, Ap |
| 71 | 32 | 59.3 | 695 | 2 | US-09-543-681A-7766 | Sequence 7766, Ap |
| 72 | 32 | 59.3 | 769 | 2 | US-09-540-236-2782 | Sequence 2782, Ap |
| 73 | 32 | 59.3 | 971 | 2 | US-09-248-796A-19531 | Sequence 19531, A |
| 74 | 32 | 59.3 | 1058 | 2 | US-09-949-016-6876 | Sequence 6876, Ap |
| 75 | 32 | 59.3 | 1066 | 2 | US-09-541-782-8 | Sequence 8, Appli |
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| 77 | 32 | 59.3 | 1066 | 2 | US-10-270-085-8 | Sequence 8, Appli |
| 78 | 32 | 59.3 | 1092 | 2 | US-09-949-016-11275 | Sequence 11275, A |
| 79 | 32 | 59.3 | 3457 | 1 | US-08-416-603-4 | Sequence 4, Appli |
| 80 | 31.5 | 58.3 | 271 | 2 | US-09-489-039A-10248 | Sequence 10248, A |
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| 82 | 31 | 57.4 | 8 | 1 | US-08-922-267A-73 | Sequence 73, Appl |
| 83 | 31 | 57.4 | 64 | 2 | US-09-328-352-4697 | Sequence 4697, Ap |
| 84 | 31 | 57.4 | 66 | 2 | US-09-252-991A-17473 | Sequence 17473, A |
| 85 | 31 | 57.4 | 68 | 2 | US-09-489-039A-13030 | Sequence 13030, A |
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| 87 | 31 | 57.4 | 79 | 2 | US-09-248-796A-22884 | Sequence 22884, A |
| 88 | 31 | 57.4 | 112 | 2 | US-09-931-381A-11 | Sequence 11, Appl |
| 89 | 31 | 57.4 | 112 | 2 | US-09-898-751A-12 | Sequence 12, Appl |
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| 91 | 31 | 57.4 | 115 | 2 | US-09-270-767-57542 | Sequence 57542, A |
| 92 | 31 | 57.4 | 136 | 2 | US-09-732-210-318 | Sequence 318, App |
| 93 | 31 | 57.4 | 136 | 2 | US-09-732-210-319 | Sequence 319, App |
| 94 | 31 | 57.4 | 153 | 2 | US-09-270-767-37703 | Sequence 37703, A |
| 95 | 31 | 57.4 | 153 | 2 | US-09-270-767-52920 | Sequence 52920, A |
| 96 | 31 | 57.4 | 156 | 2 | US-09-902-540-16644 | Sequence 16644, A |
| 97 | 31 | 57.4 | 168 | 2 | US-09-270-767-33797 | Sequence 33797, A |
| 98 | 31 | 57.4 | 168 | 2 | US-09-270-767-49014 | Sequence 49014, A |
| 99 | 31 | 57.4 | 191 | 2 | US-09-489-039A-7915 | Sequence 7915, Ap |
| 100 | 31 | 57.4 | 202 | 2 | US-09-487-558B-164 | Sequence 164, App |

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| 101 | 31 | 57.4 | 209 | 2 | US-09-583-110-3222 | Sequence 3222, Ap |
| 102 | 31 | 57.4 | 228 | 2 | US-09-107-433-3671 | Sequence 3671, Ap |
| 103 | 31 | 57.4 | 235 | 2 | US-09-134-001C-4827 | Sequence 4827, Ap |
| 104 | 31 | 57.4 | 292 | 2 | US-09-662-254B-17 | Sequence 17, Appl |
| 105 | 31 | 57.4 | 303 | 2 | US-09-270-767-39800 | Sequence 39800, A |
| 106 | 31 | 57.4 | 303 | 2 | US-09-270-767-55017 | Sequence 55017, A |
| 107 | 31 | 57.4 | 305 | 2 | US-09-248-796A-19800 | Sequence 19800, A |
| 108 | 31 | 57.4 | 336 | 2 | US-09-999-833A-303 | Sequence 303, App |
| 109 | 31 | 57.4 | 336 | 2 | US-10-020-445A-303 | Sequence 303, App |
| 110 | 31 | 57.4 | 400 | 2 | US-09-270-767-42514 | Sequence 42514, A |
| 111 | 31 | 57.4 | 437 | 2 | US-09-248-796A-19098 | Sequence 19098, A |
| 112 | 31 | 57.4 | 442 | 2 | US-09-032-365A-17 | Sequence 17, Appl |
| 113 | 31 | 57.4 | 443 | 2 | US-09-591-694-8 | Sequence 8, Appli |
| 114 | 31 | 57.4 | 456 | 2 | US-09-949-016-8968 | Sequence 8968, Ap |
| 115 | 31 | 57.4 | 459 | 1 | US-08-630-592-2 | Sequence 2, Appli |
| 116 | 31 | 57.4 | 459 | 1 | US-08-714-991-2 | Sequence 2, Appli |
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| 118 | 31 | 57.4 | 460 | 1 | US-08-630-592-7 | Sequence 7, Appli |
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| 120 | 31 | 57.4 | 460 | 2 | US-09-032-365A-8 | Sequence 8, Appli |
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| 122 | 31 | 57.4 | 491 | 2 | US-08-812-824-1 | Sequence 1, Appli |
| 123 | 31 | 57.4 | 504 | 2 | US-08-955-918C-7 | Sequence 7, Appli |
| 124 | 31 | 57.4 | 504 | 2 | US-08-697-766A-7 | Sequence 7, Appli |
| 125 | 31 | 57.4 | 505 | 1 | US-08-631-200-2 | Sequence 2, Appli |
| 126 | 31 | 57.4 | 505 | 1 | US-08-630-592-4 | Sequence 4, Appli |
| 127 | 31 | 57.4 | 505 | 1 | US-08-714-991-4 | Sequence 4, Appli |
| 128 | 31 | 57.4 | 505 | 1 | US-08-829-553-2 | Sequence 2, Appli |
| 129 | 31 | 57.4 | 505 | 1 | US-08-922-267A-2 | Sequence 2, Appli |
| 130 | 31 | 57.4 | 505 | 1 | US-08-936-707A-2 | Sequence 2, Appli |
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| 134 | 31 | 57.4 | 505 | 2 | US-08-812-824-3 | Sequence 3, Appli |
| 135 | 31 | 57.4 | 505 | 2 | US-09-406-071-2 | Sequence 2, Appli |
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| 142 | 31 | 57.4 | 506 | 2 | US-09-248-203-8 | Sequence 8, Appli |
| 143 | 31 | 57.4 | 506 | 2 | US-09-032-365A-62 | Sequence 62, Appl |
| 144 | 31 | 57.4 | 506 | 2 | US-08-812-824-4 | Sequence 4, Appli |
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| 150 | 31 | 57.4 | 518 | 2 | US-09-032-365A-58 | Sequence 58, Appl |
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| 154 | 31 | 57.4 | 538 | 1 | US-08-933-227-5 | Sequence 5, Appli |
| 155 | 31 | 57.4 | 538 | 2 | US-09-636-791A-4 | Sequence 4, Appli |
| 156 | 31 | 57.4 | 538 | 2 | US-09-538-092-1186 | Sequence 1186, Ap |
| 157 | 31 | 57.4 | 538 | 2 | US-08-444-994-11 | Sequence 11, Appl |
| 158 | 31 | 57.4 | 540 | 2 | US-09-949-016-8190 | Sequence 8190, Ap |
| 159 | 31 | 57.4 | 542 | 1 | US-08-246-583-3 | Sequence 3, Appli |
| 160 | 31 | 57.4 | 542 | 2 | US-09-636-791A-5 | Sequence 5, Appli |
| 161 | 31 | 57.4 | 542 | 2 | US-09-538-092-672 | Sequence 672, App |
| 162 | 31 | 57.4 | 542 | 2 | US-08-444-994-12 | Sequence 12, Appl |
| 163 | 31 | 57.4 | 550 | 2 | US-09-242-913B-14 | Sequence 14, Appl |
| 164 | 31 | 57.4 | 552 | 2 | US-09-242-913B-19 | Sequence 19, Appl |
| 165 | 31 | 57.4 | 556 | 2 | US-09-248-796A-19179 | Sequence 19179, A |
| 166 | 31 | 57.4 | 557 | 2 | US-09-949-016-10867 | Sequence 10867, A |
| 167 | 31 | 57.4 | 561 | 1 | US-08-714-991-27 | Sequence 27, Appl |
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| 171 | 31 | 57.4 | 722 | 2 | US-09-949-016-7357 | Sequence 7357, Ap |
| 172 | 31 | 57.4 | 727 | 2 | US-09-540-236-2963 | Sequence 2963, Ap |
| 173 | 31 | 57.4 | 741 | 1 | US-08-462-481-2 | Sequence 2, Appli |
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| 178 | 31 | 57.4 | 741 | 1 | US-08-487-797-2 | Sequence 2, Appli |
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| 180 | 31 | 57.4 | 741 | 1 | US-08-701-005A-2 | Sequence 2, Appli |
| 181 | 31 | 57.4 | 741 | 1 | US-08-479-895-2 | Sequence 2, Appli |
| 182 | 31 | 57.4 | 741 | 2 | US-08-943-956A-2 | Sequence 6997, Ap |
| 183 | 31 | 57.4 | 741 | 2 | US-09-949-016-6997 | Sequence 2, Appli |
| 184 | 31 | 57.4 | 741 | 4 | PCT-US95-02058-2 | Sequence 4, Appli |
| 185 | 31 | 57.4 | 741 | 4 | PCT-US95-02058-4 | Sequence 7955, Ap |
| 186 | 31 | 57.4 | 747 | 2 | US-09-949-016-7955 | Sequence 172, App |
| 187 | 31 | 57.4 | 884 | 2 | US-09-538-092-172 | Sequence 282, App |
| 188 | 31 | 57.4 | 928 | 2 | US-09-487-558B-282 | Sequence 4968, Ap |
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| 191 | 31 | 57.4 | 1350 | 2 | US-08-809-917-9 | Sequence 9, Appli |
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| 196 | 30.5 | 56.5 | 61 | 2 | US-09-902-540-14830 | Sequence 2, Appli |
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| 199 | 30 | 55.6 | 75 | 2 | US-09-513-999C-5023 | Sequence 1137, Ap |
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| 202 | 30 | 55.6 | 90 | 2 | US-09-513-999C-5770 | Sequence 7, Appli |
| 203 | 30 | 55.6 | 95 | 2 | US-09-029-755C-7 | Sequence 1121, Ap |
| 204 | 30 | 55.6 | 116 | 2 | US-09-640-211A-1121 | Sequence 3305, Ap |
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| 280 | 30 | 55.6 | 560 | 2 | US-10-252-518-3 | Sequence 3, Appli |
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| 301 | 29 | 53.7 | 13 | 2 | US-09-318-001-28 | Sequence 28, Appl |
| 302 | 29 | 53.7 | 13 | 2 | US-09-064-159-28 | Sequence 28, Appl |
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| 307 | 29 | 53.7 | 24 | 2 | US-09-873-155A-48 | Sequence 48, Appl |
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| 318 | 29 | 53.7 | 86 | 2 | US-09-009-816-8 | Sequence 8, Appli |
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| 322 | 29 | 53.7 | 106 | 2 | US-09-848-798-159 | Sequence 159, App |
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| 341 | 29 | 53.7 | 293 | 2 | US-09-640-211A-995 | Sequence 995, App |
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| 343 | 29 | 53.7 | 331 | 2 | US-09-270-767-33262 | Sequence 33262, A |
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| 350 | 29 | 53.7 | 359 | 1 | US-08-737-045-11 | Sequence 11, Appl |
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| 370 | 29 | 53.7 | 449 | 2 | US-08-697-954-4 | Sequence 4, Appli |
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| 386 | 29 | 53.7 | 476 | 2 | US-09-340-264A-2 | Sequence 2, Appli |
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| 389 | 29 | 53.7 | 476 | 2 | US-10-428-041-8 | Sequence 8, Appli |
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| 397 | 29 | 53.7 | 480 | 2 | US-09-382-086-5 | Sequence 5, Appli |
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| 418 | 29 | 53.7 | 920 | 2 | US-09-463-402-6 | Sequence 6, Appli |
| 419 | 29 | 53.7 | 921 | 2 | US-09-889-572-4 | Sequence 4, Appli |
| 420 | 29 | 53.7 | 921 | 2 | US-09-117-447-6 | Sequence 6, Appli |
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| 436 | 29 | 53.7 | 1484 | 2 | US-08-940-086A-56 | Sequence 56, Appl |
| 437 | 29 | 53.7 | 1484 | 2 | US-08-940-035A-56 | Sequence 56, Appl |
| 438 | 29 | 53.7 | 1484 | 2 | US-08-935-105A-56 | Sequence 56, Appl |
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| 455 | 29 | 53.7 | 4588 | 2 | US-10-025-225-8 | Sequence 8, Appli |
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| 467 | 28.5 | 52.8 | 1333 | 2 | US-09-976-594-312 | Sequence 312, App |
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| 475 | 28 | 51.9 | 9 | 2 | US-09-192-854-25 | Sequence 25, Appl |
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| 479 | 28 | 51.9 | 15 | 2 | US-09-636-215-510 | Sequence 510, App |
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| 481 | 28 | 51.9 | 15 | 2 | US-09-679-426-510 | Sequence 510, App |
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| 483 | 28 | 51.9 | 15 | 2 | US-09-651-236-510 | Sequence 510, App |
| 484 | 28 | 51.9 | 15 | 2 | US-09-657-279-510 | Sequence 510, App |
| 485 | 28 | 51.9 | 15 | 2 | US-10-012-896-510 | Sequence 510, App |
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| 942 | 27 | 50.0 | 200 | 2 | US-09-489-039A-9886 | Sequence 9886, Ap |
| 943 | 27 | 50.0 | 200 | 2 | US-09-248-796A-24658 | Sequence 24658, A |
| 944 | 27 | 50.0 | 203 | 2 | US-09-270-767-43420 | Sequence 43420, A |
| 945 | 27 | 50.0 | 205 | 2 | US-09-602-777A-26 | Sequence 26, Appl |
| 946 | 27 | 50.0 | 209 | 2 | US-08-956-171E-5227 | Sequence 5227, Ap |
| 947 | 27 | 50.0 | 209 | 2 | US-08-781-986A-5227 | Sequence 5227, Ap |
| 948 | 27 | 50.0 | 211 | 2 | US-09-270-767-43469 | Sequence 43469, A |
| 949 | 27 | 50.0 | 212 | 2 | US-09-538-092-715 | Sequence 715, App |
| 950 | 27 | 50.0 | 214 | 2 | US-09-717-364A-17 | Sequence 17, Appl |
| 951 | 27 | 50.0 | 215 | 2 | US-09-328-352-6750 | Sequence 6750, Ap |
| 952 | 27 | 50.0 | 219 | 2 | US-09-489-039A-12942 | Sequence 12942, A |
| 953 | 27 | 50.0 | 219 | 2 | US-09-248-796A-26454 | Sequence 26454, A |
| 954 | 27 | 50.0 | 220 | 2 | US-09-949-016-10773 | Sequence 10773, A |
| 955 | 27 | 50.0 | 221 | 1 | US-08-542-003-5 | Sequence 5, Appli |
| 956 | 27 | 50.0 | 221 | 1 | US-08-322-760A-5 | Sequence 5, Appli |
| 957 | 27 | 50.0 | 221 | 2 | US-09-247-373B-54 | Sequence 54, Appl |
| 958 | 27 | 50.0 | 221 | 2 | US-09-236-949-5 | Sequence 5, Appli |
| 959 | 27 | 50.0 | 221 | 2 | US-09-134-000C-5016 | Sequence 5016, Ap |
| 960 | 27 | 50.0 | 221 | 2 | US-09-949-016-10185 | Sequence 10185, A |
| 961 | 27 | 50.0 | 224 | 2 | US-09-270-767-32741 | Sequence 32741, A |
| 962 | 27 | 50.0 | 224 | 2 | US-09-270-767-47958 | Sequence 47958, A |
| 963 | 27 | 50.0 | 228 | 2 | US-08-513-974B-313 | Sequence 313, App |
| 964 | 27 | 50.0 | 228 | 2 | US-08-513-974B-362 | Sequence 362, App |
| 965 | 27 | 50.0 | 228 | 2 | US-08-776-971-130 | Sequence 130, App |
| 966 | 27 | 50.0 | 228 | 2 | US-09-576-290-130 | Sequence 130, App |
| 967 | 27 | 50.0 | 228 | 2 | US-09-716-147-130 | Sequence 130, App |
| 968 | 27 | 50.0 | 239 | 2 | US-09-248-796A-22748 | Sequence 22748, A |
| 969 | 27 | 50.0 | 239 | 2 | US-09-830-807-9 | Sequence 9, Appli |
| 970 | 27 | 50.0 | 240 | 2 | US-09-248-335-42 | Sequence 42, Appl |
| 971 | 27 | 50.0 | 240 | 2 | US-09-252-991A-21397 | Sequence 21397, A |
| 972 | 27 | 50.0 | 242 | 2 | US-09-489-039A-11987 | Sequence 11987, A |
| 973 | 27 | 50.0 | 242 | 2 | US-09-614-912-76 | Sequence 76, Appl |
| 974 | 27 | 50.0 | 242 | 2 | US-09-270-767-47263 | Sequence 47263, A |
| 975 | 27 | 50.0 | 243 | 2 | US-09-270-767-33646 | Sequence 33646, A |
| 976 | 27 | 50.0 | 243 | 2 | US-09-270-767-48863 | Sequence 48863, A |

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| 977 | 27 | 50.0 | 244 | 2 | US-09-003-287-6 | Sequence 6, Appli |
| 978 | 27 | 50.0 | 244 | 2 | US-09-003-287-8 | Sequence 8, Appli |
| 979 | 27 | 50.0 | 244 | 2 | US-09-518-988-2 | Sequence 2, Appli |
| 980 | 27 | 50.0 | 244 | 2 | US-09-270-767-44820 | Sequence 44820, A |
| 981 | 27 | 50.0 | 245 | 2 | US-09-270-767-43112 | Sequence 43112, A |
| 982 | 27 | 50.0 | 247 | 2 | US-09-252-991A-30073 | Sequence 30073, A |
| 983 | 27 | 50.0 | 250 | 1 | US-08-162-475A-4 | Sequence 4, Appli |
| 984 | 27 | 50.0 | 250 | 2 | US-09-270-767-59083 | Sequence 59083, A |
| 985 | 27 | 50.0 | 251 | 2 | US-09-270-767-43016 | Sequence 43016, A |
| 986 | 27 | 50.0 | 253 | 1 | US-08-162-475A-2 | Sequence 2, Appli |
| 987 | 27 | 50.0 | 254 | 1 | US-08-047-413-9 | Sequence 9, Appli |
| 988 | 27 | 50.0 | 254 | 2 | US-08-229-050-9 | Sequence 9, Appli |
| 989 | 27 | 50.0 | 254 | 2 | US-08-801-563-9 | Sequence 9, Appli |
| 990 | 27 | 50.0 | 256 | 2 | US-09-534-229C-1 | Sequence 1, Appli |
| 991 | 27 | 50.0 | 257 | 2 | US-09-543-681A-4193 | Sequence 4193, Ap |
| 992 | 27 | 50.0 | 257 | 2 | US-09-543-681A-7481 | Sequence 7481, Ap |
| 993 | 27 | 50.0 | 259 | 2 | US-09-328-352-6948 | Sequence 6948, Ap |
| 994 | 27 | 50.0 | 264 | 2 | US-09-270-767-41946 | Sequence 41946, A |
| 995 | 27 | 50.0 | 269 | 2 | US-09-489-039A-14164 | Sequence 14164, A |
| 996 | 27 | 50.0 | 274 | 2 | US-09-252-991A-31076 | Sequence 31076, A |
| 997 | 27 | 50.0 | 281 | 2 | US-09-543-681A-7032 | Sequence 7032, Ap |
| 998 | 27 | 50.0 | 291 | 2 | US-09-248-796A-15776 | Sequence 15776, A |
| 999 | 27 | 50.0 | 292 | 2 | US-09-320-878-14 | Sequence 14, Appl |
| 1000 | 27 | 50.0 | 292 | 2 | US-09-105-537-12 | Sequence 12, Appl |

ALIGNMENTS

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RESULT 1
US-08-934-915-45
; Sequence 45, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  45:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-45

  Query Match             100.0%;  Score 54;  DB 1;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.00098;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
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Db          6 QQYNKPLCD 14


RESULT 2
US-09-980-523A-8
; Sequence 8, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
;   LENGTH: 29
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-8

  Query Match             100.0%;  Score 54;  DB 2;  Length 29;
  Best Local Similarity   100.0%;  Pred. No. 0.0015;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db         18 QQYNKPLCD 26


RESULT 3
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
;  APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
;  TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 FC
;  TITLE OF INVENTION:  TRANSCRIPTIONAL REGULATION
;  FILE REFERENCE: N73477C GCW
;  CURRENT APPLICATION NUMBER: US/09/701,080C
;  CURRENT FILING DATE:  2001-02-27
;  PRIOR APPLICATION NUMBER: GB 9811303.8
;  PRIOR FILING DATE: 1998-05-26
;  PRIOR APPLICATION NUMBER: GB 9900157.0
;  PRIOR FILING DATE: 1999-01-05
;  NUMBER OF SEQ ID NOS: 36
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-09-701-080C-18
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  Query Match             100.0%;  Score 54;  DB 2;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 0.0085;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db         90 QQYNKPLCD 98


RESULT 4
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
;    LENGTH: 158
;    TYPE: PRT
;    ORGANISM: Human Papillomavirus
US-09-980-523A-2

  Query Match             100.0%;  Score 54;  DB 2;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.0089;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db         97 QQYNKPLCD 105


RESULT 5
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-3

  Query Match             100.0%;  Score 54;  DB 1;  Length 162;
  Best Local Similarity   100.0%;  Pred. No. 0.0091;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db         97 QQYNKPLCD 105


RESULT 6
US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-4

  Query Match             100.0%;  Score 54;  DB 1;  Length 162;
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Best Local Similarity 100.0%; Pred. No. 0.0091;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 QQYNKPLCD 9
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Db         97 QQYNKPLCD 105
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RESULT 7
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

Query Match 100.0%; Score 54; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.0097;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 QQYNKPLCD 9
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Db         35 QQYNKPLCD 43
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RESULT 8
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-12

Query Match 100.0%; Score 54; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.0097;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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              |||||||||
Db         35 QQYNKPLCD 43
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RESULT 9
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOUL, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/09/462,993
; CURRENT FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Derivated from
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
; OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

Query Match 100.0%; Score 54; DB 2; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.014;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 QQYNKPLCD 9
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Db        125 QQYNKPLCD 133
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RESULT 10
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

Query Match 100.0%; Score 54; DB 2; Length 266;

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  Best Local Similarity   100.0%;  Pred. No. 0.016;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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              |||||||||
Db         97 QQYNKPLCD 105


RESULT 11
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-10

  Query Match             100.0%;  Score 54;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.016;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
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Db         97 QQYNKPLCD 105


RESULT 12
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 54;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.016;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db         97 QQYNKPLCD 105


RESULT 13
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-4

  Query Match             100.0%;  Score 54;  DB 2;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 0.016;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db        203 QQYNKPLCD 211


RESULT 14
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-10

  Query Match             100.0%;  Score 54;  DB 2;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.017;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db        222 QQYNKPLCD 230
```

```
RESULT 15
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-6

  Query Match             100.0%;  Score 54;  DB 2;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 0.022;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db        203 QQYNKPLCD 211


RESULT 16
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-14

  Query Match             100.0%;  Score 54;  DB 2;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 0.023;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db        222 QQYNKPLCD 230


RESULT 17
US-08-934-915-164
; Sequence 164, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  164:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-164

  Query Match             90.7%;  Score 49;  DB 1;  Length 20;
  Best Local Similarity   88.9%;  Pred. No. 0.0089;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              ||||||||:
Db          6 QQYNKPLCN 14


RESULT 18
US-08-159-339A-233
; Sequence 233, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
```

```
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  233:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-233

  Query Match             83.3%;  Score 45;  DB 2;  Length 9;
  Best Local Similarity   88.9%;  Pred. No. 4.6e+05;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              ||||||| |
Db          1 QQYNKPLAD 9


RESULT 19
US-09-574-749B-43
; Sequence 43, Application US/09574749B
; Patent No. 6548299
; GENERAL INFORMATION:
;  APPLICANT: ROSENZWEIG, Michael
;  APPLICANT:  PYKETT, Mark J.
;  APPLICANT:  SCADDEN, David T.
;  APPLICANT:  POZNANSKY, Mark C.
;  TITLE OF INVENTION: LYMPHOID TISSUE-SPECIFIC CELL PRODUCTION
;  TITLE OF INVENTION:  FROM HEMATOPOIETIC PROGENITOR CELLS IN THREE-DIMENSIONAL
;  TITLE OF INVENTION:  DEVICES
;  FILE REFERENCE: C1005/7012/KA/ERG
;  CURRENT APPLICATION NUMBER: US/09/574,749B
;  CURRENT FILING DATE:  2002-05-31
;  PRIOR APPLICATION NUMBER: US 60/107,972
;  PRIOR FILING DATE: 1998-11-12
;  PRIOR APPLICATION NUMBER: PCT/US99/26795
;  PRIOR FILING DATE: 1999-11-12
;  PRIOR APPLICATION NUMBER: US 09/524,749
;  PRIOR FILING DATE: 2000-05-18
;  NUMBER OF SEQ ID NOS: 58
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 43
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Papilloma source
US-09-574-749B-43

  Query Match             81.5%;  Score 44;  DB 2;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.038;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 YNKPLCD 9
              |||||||
Db          2 YNKPLCD 8


RESULT 20
US-09-270-767-40613
; Sequence 40613, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 40613
;   LENGTH: 227
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
;   FEATURE:
;   OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-40613

  Query Match             70.4%;  Score 38;  DB 2;  Length 227;
  Best Local Similarity   85.7%;  Pred. No. 15;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 YNKPLCD 9
              | |||||
Db        179 YGKPLCD 185


RESULT 21
US-09-270-767-55829
; Sequence 55829, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 55829
;   LENGTH: 227
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
;   FEATURE:
;   OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-55829

  Query Match             70.4%;  Score 38;  DB 2;  Length 227;
  Best Local Similarity   85.7%;  Pred. No. 15;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 YNKPLCD 9
              | |||||
Db        179 YGKPLCD 185


RESULT 22
US-07-621-193A-2
; Sequence 2, Application US/07621193A
; Patent No. 5187087
;  GENERAL INFORMATION:
;    APPLICANT:  Sondermeyer, Paulus Jacobus Antonius
```

; APPLICANT: Claessens, Johannes Antonius Joseph
; APPLICANT: Mockett, Albert Philip Adrian
; TITLE OF INVENTION: Recombinant herpesvirus of
; TITLE OF INVENTION: turkeys and live vector vaccines derived thereof
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Organon Teknika Corporation
; ADDRESSEE: Biotechnology Research Institute
; STREET: 1330-A Piccard Drive
; CITY: Rockville
; STATE: Maryland
; COUNTRY: U.S.A.
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.24
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/621,193A
; FILING DATE: 19901130
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Donna Bobrowicz
; REGISTRATION NUMBER: 32,196
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301)258-5200
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 209 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE: ORF-2
US-07-621-193A-2

Query Match 64.8%; Score 35; DB 1; Length 209;
Best Local Similarity 75.0%; Pred. No. 52;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 QQYNKPLC 8
:|| ||||
Db 174 EQYWKPLC 181

RESULT 23
US-08-018-489C-2
; Sequence 2, Application US/08018489C
; Patent No. 5470734
; GENERAL INFORMATION:
; APPLICANT: Sondermeyer, Paulus Jacobus Antonius
; APPLICANT: Claessens, Johannes Antonius Joseph
; APPLICANT: Mockett, Albert Philip Adrian
; TITLE OF INVENTION: Recombinant herpesvirus of
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Akzo Pharma
; STREET: 1330-A Piccard Drive
; CITY: Rockville
; STATE: Maryland
; COUNTRY: U.S.A.
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.24
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/018,489C
; FILING DATE: February 12, 1993
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/621,193
; FILING DATE: 30-NOV-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Donna Bobrowicz
; REGISTRATION NUMBER: 32,196
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301)258-5200
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 209 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE: ORF-2
US-08-018-489C-2

Query Match 64.8%; Score 35; DB 1; Length 209;
Best Local Similarity 75.0%; Pred. No. 52;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 QQYNKPLC 8
:|| ||||
Db 174 EQYWKPLC 181

RESULT 24
US-08-398-590A-40
; Sequence 40, Application US/08398590A
; Patent No. 5935811
; GENERAL INFORMATION:
; APPLICANT: Anderson, David J.
; APPLICANT: Schoenherr, Christopher J.
; TITLE OF INVENTION: Neuron-Restrictive Silencer Factor
; TITLE OF INVENTION: Proteins
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Flehr, Hohbach, Test, Albritton & Herbert
; STREET: Four Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: California
; COUNTRY: United States
; ZIP: 94111-4187
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/398,590A
; FILING DATE: 03-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/103,445
; FILING DATE: 06-AUG-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Silva, Robin M.
; REGISTRATION NUMBER: 38,304
; REFERENCE/DOCKET NUMBER: A-60897/RFT/RMS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 781-1989
; TELEFAX: (415) 398-3249
; TELEX: 910 277299
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 676 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-398-590A-40

Query Match 64.8%; Score 35; DB 1; Length 676;

```
  Best Local Similarity   55.6%;  Pred. No. 1.8e+02;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              :|:| |:||
Db        467 RQFNCPVCD 475


RESULT 25
US-08-894-997-40
; Sequence 40, Application US/08894997A
; Patent No. 6270990
; GENERAL INFORMATION:
;  APPLICANT: Anderson, David J
;  APPLICANT: Schoenherr, Christopher J
;  TITLE OF INVENTION: NEURON-RESTRICTIVE SILENCER FACTOR
;  FILE REFERENCE: 17810-502 NRSF
;  CURRENT APPLICATION NUMBER: US/08/894,997A
;  CURRENT FILING DATE: 1998-01-06
;  EARLIER APPLICATION NUMBER: PCT/US96/02817
;  EARLIER FILING DATE: 1996-03-01
;  EARLIER APPLICATION NUMBER: 08/398,590
;  EARLIER FILING DATE: 1995-03-03
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 40
;   LENGTH: 676
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: CHAIN
;   LOCATION: (1)..(676)
;   OTHER INFORMATION: Human NSRF (partial)
US-08-894-997-40

  Query Match             64.8%;  Score 35;  DB 2;  Length 676;
  Best Local Similarity   55.6%;  Pred. No. 1.8e+02;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              :|:| |:||
Db        467 RQFNCPVCD 475


RESULT 26
US-09-873-155A-40
; Sequence 40, Application US/09873155A
; Patent No. 6824774
; GENERAL INFORMATION:
;  APPLICANT: Anderson, David J
;  APPLICANT:  Schoenherr, Christopher J
;  TITLE OF INVENTION: Antibodies That Bind Neuron Restrictive Silencer Factor
;  TITLE OF INVENTION:  Proteins
;  FILE REFERENCE: 17810-502 CIPCON
;  CURRENT APPLICATION NUMBER: US/09/873,155A
;  CURRENT FILING DATE:  2001-06-01
;  PRIOR APPLICATION NUMBER: 08/894,997
;  PRIOR FILING DATE: 1998-01-16
;  PRIOR APPLICATION NUMBER: PCT/US96/02817
;  PRIOR FILING DATE: 1996-03-01
;  PRIOR APPLICATION NUMBER: 08/398,590
;  PRIOR FILING DATE: 1995-03-03
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 40
;   LENGTH: 676
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: CHAIN
;   LOCATION: (1)..(676)
;   OTHER INFORMATION: Human NSRF (partial)
US-09-873-155A-40

  Query Match             64.8%;  Score 35;  DB 2;  Length 676;
  Best Local Similarity   55.6%;  Pred. No. 1.8e+02;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              :|:| |:||
Db        467 RQFNCPVCD 475


RESULT 27
US-08-894-997-50
; Sequence 50, Application US/08894997A
; Patent No. 6270990
; GENERAL INFORMATION:
;  APPLICANT: Anderson, David J
;  APPLICANT: Schoenherr, Christopher J
;  TITLE OF INVENTION: NEURON-RESTRICTIVE SILENCER FACTOR
;  FILE REFERENCE: 17810-502 NRSF
;  CURRENT APPLICATION NUMBER: US/08/894,997A
;  CURRENT FILING DATE: 1998-01-06
;  EARLIER APPLICATION NUMBER: PCT/US96/02817
;  EARLIER FILING DATE: 1996-03-01
;  EARLIER APPLICATION NUMBER: 08/398,590
;  EARLIER FILING DATE: 1995-03-03
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 50
;   LENGTH: 976
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(976)
;   OTHER INFORMATION: Human NSRF
;   FEATURE:
;   NAME/KEY: CHAIN
;   LOCATION: (1)..(976)
;   OTHER INFORMATION: Human NSRF
US-08-894-997-50

  Query Match             64.8%;  Score 35;  DB 2;  Length 976;
  Best Local Similarity   55.6%;  Pred. No. 2.7e+02;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              :|:| |:||
Db        382 RQFNCPVCD 390


RESULT 28
US-09-873-155A-50
; Sequence 50, Application US/09873155A
; Patent No. 6824774
; GENERAL INFORMATION:
;  APPLICANT: Anderson, David J
;  APPLICANT:  Schoenherr, Christopher J
;  TITLE OF INVENTION: Antibodies That Bind Neuron Restrictive Silencer Factor
;  TITLE OF INVENTION:  Proteins
;  FILE REFERENCE: 17810-502 CIPCON
;  CURRENT APPLICATION NUMBER: US/09/873,155A
;  CURRENT FILING DATE:  2001-06-01
;  PRIOR APPLICATION NUMBER: 08/894,997
;  PRIOR FILING DATE: 1998-01-16
;  PRIOR APPLICATION NUMBER: PCT/US96/02817
;  PRIOR FILING DATE: 1996-03-01
;  PRIOR APPLICATION NUMBER: 08/398,590
;  PRIOR FILING DATE: 1995-03-03
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 50
;   LENGTH: 976
;   TYPE: PRT
```

```
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(976)
;   OTHER INFORMATION: Human NSRF
;   FEATURE:
;   NAME/KEY: CHAIN
;   LOCATION: (1)..(976)
;   OTHER INFORMATION: Human NSRF
US-09-873-155A-50

  Query Match             64.8%;  Score 35;  DB 2;  Length 976;
  Best Local Similarity   55.6%;  Pred. No. 2.7e+02;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              :|:| |:||
Db        382 RQFNCPVCD 390


RESULT 29
US-09-949-016-6644
; Sequence 6644, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6644
;   LENGTH: 1088
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-6644

  Query Match             64.8%;  Score 35;  DB 2;  Length 1088;
  Best Local Similarity   55.6%;  Pred. No. 3.1e+02;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              :|:| |:||
Db        386 RQFNCPVCD 394


RESULT 30
US-09-949-016-8616
; Sequence 8616, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8616
;   LENGTH: 1147
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-8616

  Query Match             64.8%;  Score 35;  DB 2;  Length 1147;
  Best Local Similarity   55.6%;  Pred. No. 3.2e+02;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              :|:| |:||
Db        437 RQFNCPVCD 445


RESULT 31
US-09-029-047C-2
; Sequence 2, Application US/09029047C
; Patent No. 6632936
; GENERAL INFORMATION:
;  APPLICANT: Carr, Antony M.
;  TITLE OF INVENTION: Cell-Cycle Checkpoint Genes
;  FILE REFERENCE: 27866/34132
;  CURRENT APPLICATION NUMBER: US/09/029,047C
;  CURRENT FILING DATE:  1999-05-11
;  PRIOR APPLICATION NUMBER: PCT/GB96/02197
;  PRIOR FILING DATE: 1996-09-06
;  PRIOR APPLICATION NUMBER: GB 9518220.0
;  PRIOR FILING DATE: 1995-09-06
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 2
;   LENGTH: 2644
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-029-047C-2

  Query Match             64.8%;  Score 35;  DB 2;  Length 2644;
  Best Local Similarity   71.4%;  Pred. No. 7.9e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 QYNKPLC 8
              || ||:|
Db        928 QYKKPIC 934


RESULT 32
US-09-489-039A-10910
; Sequence 10910, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
;  APPLICANT:  Gary Breton et. al
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
;  TITLE OF INVENTION:  PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  2709.2004001
;  CURRENT APPLICATION NUMBER: US/09/489,039A
;  CURRENT FILING DATE:  2000-01-27
;  PRIOR APPLICATION NUMBER:  US 60/117,747
;  PRIOR FILING DATE:  1999-01-29
;  NUMBER OF SEQ ID NOS:  14342
; SEQ ID NO 10910
;   LENGTH: 465
;   TYPE: PRT
;   ORGANISM: Klebsiella pneumoniae
US-09-489-039A-10910

  Query Match             63.9%;  Score 34.5;  DB 2;  Length 465;
  Best Local Similarity   58.3%;  Pred. No. 1.5e+02;
  Matches    7;  Conservative    2;  Mismatches    0;  Indels    3;  Gaps    1;

Qy          1 QQYNKPL---CD 9
              |||::||   ||
Db        231 QQYDRPLDIHCD 242
```

```
RESULT 33
US-08-565-386-8
; Sequence 8, Application US/08565386
; Patent No. 5741697
;  GENERAL INFORMATION:
;    APPLICANT:  Bavoil, Patrik M.
;    APPLICANT:  Hsia, Ru-ching
;    TITLE OF INVENTION:  BACTERIOPHAGE OF CHLAMYDIA PSITTACI
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Nixon, Hargrave, Devans & Doyle LLP
;      STREET:  Clinton Square, P.O. Box 1051
;      CITY:  Roches
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/565,386
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Timian, Susan J.
;      REGISTRATION NUMBER:  34,103
;      REFERENCE/DOCKET NUMBER:  176/60040
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  716-263-1636
;      TELEFAX:  716-263-1600
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  148 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-565-386-8

  Query Match             63.0%;  Score 34;  DB 1;  Length 148;
  Best Local Similarity   66.7%;  Pred. No. 56;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              ||:||  ||
Db         23 QQHNKDECD 31


RESULT 34
US-09-248-796A-17327
; Sequence 17327, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 17327
;   LENGTH: 502
;   TYPE: PRT
;   ORGANISM: Candida albicans
US-09-248-796A-17327

  Query Match             63.0%;  Score 34;  DB 2;  Length 502;
  Best Local Similarity   75.0%;  Pred. No. 2.1e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 QYNKPLCD 9
              |||||  |
Db        406 QYNKPKAD 413


RESULT 35
US-09-270-767-44293
; Sequence 44293, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 44293
;   LENGTH: 46
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-44293

  Query Match             61.1%;  Score 33;  DB 2;  Length 46;
  Best Local Similarity   62.5%;  Pred. No. 25;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLC 8
              ||::||  |
Db         34 QQFDKPKC 41


RESULT 36
US-09-270-767-59624
; Sequence 59624, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 59624
;   LENGTH: 58
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-59624

  Query Match             61.1%;  Score 33;  DB 2;  Length 58;
  Best Local Similarity   83.3%;  Pred. No. 32;
  Matches    5;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 YNKPLC 8
              ||||  |
Db         46 YNKPAC 51


RESULT 37
US-09-270-767-61424
; Sequence 61424, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
```

```
; SEQ ID NO 61424
;   LENGTH: 73
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-61424

  Query Match             61.1%;  Score 33;  DB 2;  Length 73;
  Best Local Similarity   55.6%;  Pred. No. 41;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              ||:| | |:
Db         23 QQFNCPFCN 31


RESULT 38
US-09-270-767-45891
; Sequence 45891, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 45891
;   LENGTH: 83
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-45891

  Query Match             61.1%;  Score 33;  DB 2;  Length 83;
  Best Local Similarity   55.6%;  Pred. No. 47;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              ||:| | |:
Db         23 QQFNCPFCN 31


RESULT 39
US-09-120-365-62
; Sequence 62, Application US/09120365
; Patent No. 6103514
; GENERAL INFORMATION:
;  APPLICANT: Natori, Shunji
;  TITLE OF INVENTION: NEW PROTEASE
;  FILE REFERENCE: 32290-144749
;  CURRENT APPLICATION NUMBER: US/09/120,365
;  CURRENT FILING DATE: 1998-07-22
;  EARLIER APPLICATION NUMBER: JP 9-333 474
;  EARLIER FILING DATE: 1997-11-18
;  NUMBER OF SEQ ID NOS: 101
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 62
;   LENGTH: 339
;   TYPE: PRT
;   ORGANISM: Sarcophaga cathepsin L
US-09-120-365-62

  Query Match             61.1%;  Score 33;  DB 2;  Length 339;
  Best Local Similarity   71.4%;  Pred. No. 2.1e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 YNKPLCD 9
              ||:| ||
Db        273 YNEPECD 279


RESULT 40
US-09-120-365-80
; Sequence 80, Application US/09120365
; Patent No. 6103514
; GENERAL INFORMATION:
;  APPLICANT: Natori, Shunji
;  TITLE OF INVENTION: NEW PROTEASE
;  FILE REFERENCE: 32290-144749
;  CURRENT APPLICATION NUMBER: US/09/120,365
;  CURRENT FILING DATE: 1998-07-22
;  EARLIER APPLICATION NUMBER: JP 9-333 474
;  EARLIER FILING DATE: 1997-11-18
;  NUMBER OF SEQ ID NOS: 101
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 80
;   LENGTH: 339
;   TYPE: PRT
;   ORGANISM: Sarcophaga cathepsin L
US-09-120-365-80

  Query Match             61.1%;  Score 33;  DB 2;  Length 339;
  Best Local Similarity   71.4%;  Pred. No. 2.1e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 YNKPLCD 9
              ||:| ||
Db        273 YNEPECD 279


RESULT 41
US-09-515-039-62
; Sequence 62, Application US/09515039
; Patent No. 6214599
; GENERAL INFORMATION:
;  APPLICANT: Natori, Shunji
;  TITLE OF INVENTION: NEW PROTEASE
;  FILE REFERENCE: 32290-144749
;  CURRENT APPLICATION NUMBER: US/09/515,039
;  CURRENT FILING DATE: 2000-03-06
;  EARLIER APPLICATION NUMBER: JP 9-333 474
;  EARLIER FILING DATE: 1997-11-18
;  NUMBER OF SEQ ID NOS: 101
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 62
;   LENGTH: 339
;   TYPE: PRT
;   ORGANISM: Sarcophaga cathepsin L
US-09-515-039-62

  Query Match             61.1%;  Score 33;  DB 2;  Length 339;
  Best Local Similarity   71.4%;  Pred. No. 2.1e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 YNKPLCD 9
              ||:| ||
Db        273 YNEPECD 279


RESULT 42
US-09-515-039-80
; Sequence 80, Application US/09515039
; Patent No. 6214599
; GENERAL INFORMATION:
;  APPLICANT: Natori, Shunji
;  TITLE OF INVENTION: NEW PROTEASE
;  FILE REFERENCE: 32290-144749
;  CURRENT APPLICATION NUMBER: US/09/515,039
;  CURRENT FILING DATE: 2000-03-06
;  EARLIER APPLICATION NUMBER: JP 9-333 474
;  EARLIER FILING DATE: 1997-11-18
;  NUMBER OF SEQ ID NOS: 101
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 80
;   LENGTH: 339
;   TYPE: PRT
```

; ORGANISM: Sarcophaga cathepsin L
US-09-515-039-80

Query Match 61.1%; Score 33; DB 2; Length 339;
Best Local Similarity 71.4%; Pred. No. 2.1e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 3 YNKPLCD 9
||:| ||
Db 273 YNEPECD 279

RESULT 43
US-09-252-991A-31500
; Sequence 31500, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 31500
; LENGTH: 674
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-31500

Query Match 61.1%; Score 33; DB 2; Length 674;
Best Local Similarity 55.6%; Pred. No. 4.4e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QQYNKPLCD 9
| :|: |||
Db 113 QSFNQTLCD 121

RESULT 44
US-09-270-767-37773
; Sequence 37773, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 37773
; LENGTH: 51
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-37773

Query Match 59.3%; Score 32; DB 2; Length 51;
Best Local Similarity 71.4%; Pred. No. 44;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 QYNKPLC 8
:|||| |
Db 1 KYNKPEC 7

RESULT 45
US-09-270-767-52990
; Sequence 52990, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 52990
; LENGTH: 51
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-52990

Query Match 59.3%; Score 32; DB 2; Length 51;
Best Local Similarity 71.4%; Pred. No. 44;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 QYNKPLC 8
:|||| |
Db 1 KYNKPEC 7

RESULT 46
US-09-513-999C-7233
; Sequence 7233, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 7233
; LENGTH: 84
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 68
; OTHER INFORMATION: Xaa=Asp or Glu
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 69
; OTHER INFORMATION: Xaa=Ala or Asp or His or Asn or Pro or Ser or Thr or Tyr
US-09-513-999C-7233

Query Match 59.3%; Score 32; DB 2; Length 84;
Best Local Similarity 66.7%; Pred. No. 74;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QQYNKPLCD 9
|: |||| |
Db 41 QRMNKPLLD 49

RESULT 47
US-09-270-767-39610
; Sequence 39610, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767

```
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 39610
;   LENGTH: 87
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-39610

  Query Match             59.3%;  Score 32;  DB 2;  Length 87;
  Best Local Similarity   62.5%;  Pred. No. 77;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLC 8
              | ||  |:|
Db         80 QDYNIPVC 87


RESULT 48
US-09-270-767-54827
; Sequence 54827, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 54827
;   LENGTH: 87
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-54827

  Query Match             59.3%;  Score 32;  DB 2;  Length 87;
  Best Local Similarity   62.5%;  Pred. No. 77;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLC 8
              | ||  |:|
Db         80 QDYNIPVC 87


RESULT 49
US-09-270-767-47998
; Sequence 47998, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 47998
;   LENGTH: 137
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-47998

  Query Match             59.3%;  Score 32;  DB 2;  Length 137;
  Best Local Similarity   57.1%;  Pred. No. 1.3e+02;
  Matches    4;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 QYNKPLC 8
              |::||:|
Db         31 QFSKPIC 37


RESULT 50
US-09-621-976-5855
; Sequence 5855, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
;  APPLICANT: Dumas Milne Edwards, J.B.
;  APPLICANT:  Jobert, S.
;  APPLICANT:  Giordano, J.Y.
;  TITLE OF INVENTION: ESTs and Encoded Human Proteins.
;  FILE REFERENCE: GENSET.054PR2
;  CURRENT APPLICATION NUMBER: US/09/621,976
;  CURRENT FILING DATE:  2000-07-21
;  NUMBER OF SEQ ID NOS: 19335
;  SOFTWARE: Patent.pm
; SEQ ID NO 5855
;   LENGTH: 140
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SIGNAL
;   LOCATION: -30..-1
US-09-621-976-5855

  Query Match             59.3%;  Score 32;  DB 2;  Length 140;
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Search completed: May  5, 2006, 05:36:19
Job time : 25.7 secs
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OM protein - protein search, using sw model

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(without alignments)
67.151 Million cell updates/sec

Title: US-08-170-344-53
Perfect score: 54
Sequence: 1 QQYNKPLCD 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

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Total number of hits satisfying chosen parameters: 1867569

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SUMMARIES

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| 24 | 54 | 100.0 | 390 | 5 | US-10-899-771-14 | Sequence 14, Appl |
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| 34 | 39 | 72.2 | 448 | 4 | US-10-425-114-72678 | Sequence 72678, A |
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| 51 | 37 | 68.5 | 264 | 4 | US-10-218-779-58 | Sequence 58, Appl |
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| 74 | 36 | 66.7 | 601 | 5 | US-10-996-306-200 | Sequence 200, App |
| 75 | 36 | 66.7 | 609 | 3 | US-09-841-132-431 | Sequence 431, App |
| 76 | 36 | 66.7 | 609 | 5 | US-10-872-155-431 | Sequence 431, App |
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| 93 | 35 | 64.8 | 540 | 4 | US-10-114-153-22 | Sequence 22, Appl |
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| 154 | 33 | 61.1 | 341 | 4 | US-10-437-963-117547 | Sequence 117547, |
| 155 | 33 | 61.1 | 388 | 4 | US-10-437-963-132332 | Sequence 132332, |
| 156 | 33 | 61.1 | 392 | 4 | US-10-437-963-115653 | Sequence 115653, |
| 157 | 33 | 61.1 | 404 | 4 | US-10-437-963-117551 | Sequence 117551, |
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| 161 | 33 | 61.1 | 451 | 4 | US-10-437-963-132328 | Sequence 132328, |
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| 181 | 33 | 61.1 | 678 | 4 | US-10-437-963-132352 | Sequence 132352, |
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| 190 | 33 | 61.1 | 799 | 4 | US-10-437-963-185819 | Sequence 185819, |
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| 238 | 32 | 59.3 | 171 | 4 | US-10-425-115-336060 | Sequence 336060, |
| 239 | 32 | 59.3 | 190 | 4 | US-10-425-115-207937 | Sequence 207937, |
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| 241 | 32 | 59.3 | 215 | 4 | US-10-767-701-55545 | Sequence 55545, A |
| 242 | 32 | 59.3 | 232 | 4 | US-10-425-114-48148 | Sequence 48148, A |
| 243 | 32 | 59.3 | 299 | 4 | US-10-473-574-4 | Sequence 4, Appli |
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| 249 | 32 | 59.3 | 328 | 5 | US-10-732-923-1363 | Sequence 1363, Ap |
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| 251 | 32 | 59.3 | 351 | 4 | US-10-451-794-5 | Sequence 5, Appli |
| 252 | 32 | 59.3 | 354 | 4 | US-10-767-701-37721 | Sequence 37721, A |
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| 254 | 32 | 59.3 | 400 | 3 | US-09-765-272-190 | Sequence 190, App |
| 255 | 32 | 59.3 | 400 | 6 | US-11-106-649-190 | Sequence 190, App |
| 256 | 32 | 59.3 | 428 | 3 | US-09-966-955A-4 | Sequence 4, Appli |
| 257 | 32 | 59.3 | 428 | 4 | US-10-104-047-3344 | Sequence 3344, Ap |
| 258 | 32 | 59.3 | 428 | 5 | US-10-717-619-4 | Sequence 4, Appli |
| 259 | 32 | 59.3 | 442 | 3 | US-09-881-752A-148 | Sequence 148, App |
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| 262 | 32 | 59.3 | 478 | 6 | US-11-097-143-31689 | Sequence 31689, A |
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| 265 | 32 | 59.3 | 500 | 4 | US-10-282-122A-65803 | Sequence 65803, A |
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| 269 | 32 | 59.3 | 545 | 5 | US-10-997-757-7 | Sequence 7, Appli |
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| 272 | 32 | 59.3 | 565 | 5 | US-10-997-757-8 | Sequence 8, Appli |
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| 278 | 32 | 59.3 | 610 | 5 | US-10-450-763-38239 | Sequence 38239, A |
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| 284 | 32 | 59.3 | 759 | 4 | US-10-335-977-8694 | Sequence 8694, Ap |
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| 287 | 32 | 59.3 | 1048 | 6 | US-11-097-143-4527 | Sequence 4527, Ap |
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| 289 | 32 | 59.3 | 1130 | 4 | US-10-032-585-7758 | Sequence 7758, Ap |
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| 293 | 32 | 59.3 | 1373 | 4 | US-10-032-585-7129 | Sequence 7129, Ap |
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| 295 | 32 | 59.3 | 1406 | 4 | US-10-473-670-4 | Sequence 4, Appli |
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| 297 | 32 | 59.3 | 1685 | 5 | US-10-450-763-53077 | Sequence 53077, A |
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| 350 | 31 | 57.4 | 151 | 4 | US-10-437-963-106964 | Sequence 106964, |
| 351 | 31 | 57.4 | 151 | 5 | US-10-450-763-31434 | Sequence 31434, A |
| 352 | 31 | 57.4 | 152 | 4 | US-10-156-761-11497 | Sequence 11497, A |
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| 356 | 31 | 57.4 | 158 | 4 | US-10-425-114-57660 | Sequence 57660, A |
| 357 | 31 | 57.4 | 158 | 4 | US-10-425-115-351153 | Sequence 351153, |
| 358 | 31 | 57.4 | 165 | 4 | US-10-767-701-59700 | Sequence 59700, A |
| 359 | 31 | 57.4 | 166 | 4 | US-10-425-114-71732 | Sequence 71732, A |
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| 364 | 31 | 57.4 | 174 | 4 | US-10-767-701-55902 | Sequence 55902, A |
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| 372 | 31 | 57.4 | 202 | 3 | US-09-801-368-164 | Sequence 164, App |
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| 378 | 31 | 57.4 | 228 | 5 | US-10-617-320-3671 | Sequence 3671, Ap |
| 379 | 31 | 57.4 | 234 | 5 | US-10-732-923-15847 | Sequence 15847, A |
| 380 | 31 | 57.4 | 235 | 4 | US-10-724-972A-5681 | Sequence 5681, Ap |
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| 407 | 31 | 57.4 | 336 | 3 | US-09-978-697-303 | Sequence 303, App |
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| 751 | 31 | 57.4 | 336 | 4 | US-10-194-424-182 | Sequence 182, App |
| 752 | 31 | 57.4 | 336 | 4 | US-10-194-458-182 | Sequence 182, App |
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| 754 | 31 | 57.4 | 336 | 4 | US-10-194-488-182 | Sequence 182, App |
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| 756 | 31 | 57.4 | 336 | 4 | US-10-195-891-182 | Sequence 182, App |
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| 758 | 31 | 57.4 | 336 | 4 | US-10-196-752-182 | Sequence 182, App |
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| 761 | 31 | 57.4 | 336 | 4 | US-10-197-692-182 | Sequence 182, App |
| 762 | 31 | 57.4 | 336 | 4 | US-10-197-693-182 | Sequence 182, App |
| 763 | 31 | 57.4 | 336 | 4 | US-10-197-696-182 | Sequence 182, App |
| 764 | 31 | 57.4 | 336 | 4 | US-10-197-698-182 | Sequence 182, App |
| 765 | 31 | 57.4 | 336 | 4 | US-10-197-703-182 | Sequence 182, App |
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| 773 | 31 | 57.4 | 336 | 4 | US-10-199-307-182 | Sequence 182, App |
| 774 | 31 | 57.4 | 336 | 4 | US-10-199-312-182 | Sequence 182, App |
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| 798 | 31 | 57.4 | 336 | 4 | US-10-205-894-182 | Sequence 182, App |
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| 800 | 31 | 57.4 | 336 | 4 | US-10-205-898-182 | Sequence 182, App |
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| 876 | 31 | 57.4 | 336 | 4 | US-10-184-657-182 | Sequence 182, App |
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| 941 | 31 | 57.4 | 336 | 4 | US-10-176-486-182 | Sequence 182, App |
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| 943 | 31 | 57.4 | 336 | 4 | US-10-176-752-182 | Sequence 182, App |
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| 945 | 31 | 57.4 | 336 | 4 | US-10-176-983-182 | Sequence 182, App |
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| 947 | 31 | 57.4 | 336 | 4 | US-10-179-517-182 | Sequence 182, App |
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| 950 | 31 | 57.4 | 336 | 4 | US-10-143-029A-303 | Sequence 303, App |
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| 984 | 31 | 57.4 | 336 | 4 | US-10-195-900-182 | Sequence 182, App |
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| 997 | 31 | 57.4 | 336 | 4 | US-10-207-915-182 | Sequence 182, App |
| 998 | 31 | 57.4 | 336 | 4 | US-10-013-923A-303 | Sequence 303, App |
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| 1000 | 31 | 57.4 | 336 | 4 | US-10-013-927A-303 | Sequence 303, App |

ALIGNMENTS

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RESULT 1
US-10-476-570-37
; Sequence 37, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 37
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 93-107
US-10-476-570-37

  Query Match             100.0%;  Score 54;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.0071;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db          5 QQYNKPLCD 13


RESULT 2
US-10-476-570-38
; Sequence 38, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 38
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 97-111
US-10-476-570-38

  Query Match             100.0%;  Score 54;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.0071;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db          1 QQYNKPLCD 9


RESULT 3
US-10-476-570-35
; Sequence 35, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 91-110
US-10-476-570-35

  Query Match             100.0%;  Score 54;  DB 4;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.0095;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db          7 QQYNKPLCD 15
```

```
RESULT 4
US-10-484-063-8
; Sequence 8, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-484-063-8

  Query Match           100.0%;  Score 54;  DB 5;  Length 20;
  Best Local Similarity  100.0%;  Pred. No. 0.0095;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db          1 QQYNKPLCD 9


RESULT 5
US-10-476-570-13
; Sequence 13, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
;   LENGTH: 29
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 91-119
US-10-476-570-13

  Query Match           100.0%;  Score 54;  DB 4;  Length 29;
  Best Local Similarity  100.0%;  Pred. No. 0.014;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db          7 QQYNKPLCD 15


RESULT 6
US-10-476-570-55
; Sequence 55, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 55
;   LENGTH: 29
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 80-108
US-10-476-570-55

  Query Match           100.0%;  Score 54;  DB 4;  Length 29;
  Best Local Similarity  100.0%;  Pred. No. 0.014;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db         18 QQYNKPLCD 26


RESULT 7
US-10-858-384-8
; Sequence 8, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 8
;   LENGTH: 29
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
;   OTHER INFORMATION: for E6 of HPV
US-10-858-384-8

  Query Match           100.0%;  Score 54;  DB 5;  Length 29;
  Best Local Similarity  100.0%;  Pred. No. 0.014;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
```

```
                  |||||||||
Db         18 QQYNKPLCD 26


RESULT 8
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
;  APPLICANT: Schuler, Gerold
;  APPLICANT:  N.V. Antwerps Innovatiecentrum
;  TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
;  TITLE OF INVENTION:  Polynucleotides by Electroporation
;  FILE REFERENCE: 021505wo/JH/ml
;  CURRENT APPLICATION NUMBER: US/10/177,390
;  CURRENT FILING DATE:  2002-06-20
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-177-390-6

  Query Match             100.0%;  Score 54;  DB 4;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 0.07;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db         90 QQYNKPLCD 98


RESULT 9
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-484-063-20

  Query Match             100.0%;  Score 54;  DB 5;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 0.07;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db         90 QQYNKPLCD 98


RESULT 10
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-484-063-27

  Query Match             100.0%;  Score 54;  DB 5;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 0.07;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db         90 QQYNKPLCD 98


RESULT 11
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-10-858-384-2

  Query Match             100.0%;  Score 54;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.073;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db         97 QQYNKPLCD 105


RESULT 12
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
;  APPLICANT: Cuthill, Scott;
;  APPLICANT:  Jackson, Amanda;
;  APPLICANT:  Lewin, David A.;
;  APPLICANT:  Ooi, Chean Eng
;  TITLE OF INVENTION: Complexes and Methods of Using Same
```

```
;  FILE REFERENCE: 21402-559
;  CURRENT APPLICATION NUMBER: US/10/367,057
;  CURRENT FILING DATE:  2003-02-14
;  PRIOR APPLICATION NUMBER: 60/256,911
;  PRIOR FILING DATE: 2002-02-14
;  NUMBER OF SEQ ID NOS: 198
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 16
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-367-057-16

  Query Match             100.0%;  Score 54;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.073;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db         97 QQYNKPLCD 105


RESULT 13
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

  Query Match             100.0%;  Score 54;  DB 6;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.073;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db         97 QQYNKPLCD 105


RESULT 14
US-10-472-724-2
; Sequence 2, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
;  APPLICANT: Cid-Arregui, Angel
;  APPLICANT:  Zur Hausen, Harald
;  TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
;  FILE REFERENCE: 4121-154
;  CURRENT APPLICATION NUMBER: US/10/472,724
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP02/03271
;  PRIOR FILING DATE: 2002-03-22
;  PRIOR APPLICATION NUMBER: EP 01107271.7
;  PRIOR FILING DATE: 2001-03-23
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
;   LENGTH: 171
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

  Query Match             100.0%;  Score 54;  DB 4;  Length 171;
  Best Local Similarity   100.0%;  Pred. No. 0.079;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db        102 QQYNKPLCD 110


RESULT 15
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
;  APPLICANT: KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE: 017753-122
;  CURRENT APPLICATION NUMBER: US/11/072,288
;  CURRENT FILING DATE:  2005-03-07
;  PRIOR APPLICATION NUMBER: US/09/462,993
;  PRIOR FILING DATE: 2000-04-17
;  PRIOR APPLICATION NUMBER: PCT/FR98/01576
;  PRIOR FILING DATE: 1998-07-17
;  PRIOR APPLICATION NUMBER: FR 97/09152
;  PRIOR FILING DATE: 1997-07-18
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

  Query Match             100.0%;  Score 54;  DB 6;  Length 243;
  Best Local Similarity   100.0%;  Pred. No. 0.11;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db        125 QQYNKPLCD 133


RESULT 16
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
```

```
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 54;  DB 3;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db         97 QQYNKPLCD 105


RESULT 17
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-4

  Query Match             100.0%;  Score 54;  DB 4;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 0.13;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db        203 QQYNKPLCD 211


RESULT 18
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-4

  Query Match             100.0%;  Score 54;  DB 5;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 0.13;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db        203 QQYNKPLCD 211


RESULT 19
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-10

  Query Match             100.0%;  Score 54;  DB 4;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.13;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db        222 QQYNKPLCD 230


RESULT 20
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
```

```
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
;   OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-10

  Query Match           100.0%;  Score 54;  DB 5;  Length 292;
  Best Local Similarity  100.0%;  Pred. No. 0.13;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db        222 QQYNKPLCD 230


RESULT 21
US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-6

  Query Match           100.0%;  Score 54;  DB 4;  Length 371;
  Best Local Similarity  100.0%;  Pred. No. 0.17;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db        203 QQYNKPLCD 211


RESULT 22
US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
;   OTHER INFORMATION: virus type 16)
US-10-899-771-6

  Query Match           100.0%;  Score 54;  DB 5;  Length 371;
  Best Local Similarity  100.0%;  Pred. No. 0.17;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db        203 QQYNKPLCD 211


RESULT 23
US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-14

  Query Match           100.0%;  Score 54;  DB 4;  Length 390;
  Best Local Similarity  100.0%;  Pred. No. 0.18;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db        222 QQYNKPLCD 230


RESULT 24
US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
```

```
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
;   OTHER INFORMATION: pneumoniae and E6E7 fusion from Human papilloma
;   OTHER INFORMATION: virus type 16)
US-10-899-771-14

  Query Match             100.0%;  Score 54;  DB 5;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 0.18;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db        222 QQYNKPLCD 230


RESULT 25
US-10-239-313A-654
; Sequence 654, Application US/10239313A
; Publication No. US20030175285A1
; GENERAL INFORMATION:
;  APPLICANT: KLINGUER - HAMOUR, Christine
;  APPLICANT:  CORVAIA, Nathalie
;  APPLICANT:  BECK, Alain
;  APPLICANT:  GOETSCH, Liliane
;  TITLE OF INVENTION: MOLECULE OF PHARMACEUTICAL INTEREST COMPRISING AT ITS
;  TITLE OF INVENTION:  N-TERMINAL A GLUTAMIC ACID OR A GLUTAMINE IN THE FORM
;  TITLE OF INVENTION:  OF A PHYSIOLOGICALLY ACCEPTABLE STRONG ACID
;  FILE REFERENCE: 343 727 - US
;  CURRENT APPLICATION NUMBER: US/10/239,313A
;  CURRENT FILING DATE:  2002-09-19
;  PRIOR APPLICATION NUMBER: FR 00/03711
;  PRIOR FILING DATE: 2000-03-23
;  PRIOR APPLICATION NUMBER: PCT 01/70772
;  PRIOR FILING DATE: 2001-03-22
;  NUMBER OF SEQ ID NOS: 697
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 654
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-239-313A-654

  Query Match             90.7%;  Score 49;  DB 4;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.039;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 QYNKPLCD 9
              ||||||||
Db          1 QYNKPLCD 8


RESULT 26
US-10-161-097-43
; Sequence 43, Application US/10161097
; Publication No. US20030096404A1
; GENERAL INFORMATION:
;  APPLICANT: ROSENZWEIG, Michael
;  APPLICANT:  PYKETT, Mark J.
;  APPLICANT:  SCADDEN, David T.
;  APPLICANT:  POZNANSKY, Mark C.
;  TITLE OF INVENTION: LYMPHOID TISSUE-SPECIFIC CELL PRODUCTION
;  TITLE OF INVENTION:  FROM HEMATOPOIETIC PROGENITOR CELLS IN THREE-DIMENSIONAL
;  TITLE OF INVENTION:  DEVICES
;  FILE REFERENCE: C1005/7012/KA/ERG
;  CURRENT APPLICATION NUMBER: US/10/161,097
;  CURRENT FILING DATE:  2002-05-31
;  PRIOR APPLICATION NUMBER: US/09/574,749
;  PRIOR FILING DATE: 2002-05-31
;  PRIOR APPLICATION NUMBER: US 60/107,972
;  PRIOR FILING DATE: 1998-11-12
;  PRIOR APPLICATION NUMBER: PCT/US99/26795
;  PRIOR FILING DATE: 1999-11-12
;  PRIOR APPLICATION NUMBER: US 09/524,749
;  PRIOR FILING DATE: 2000-05-18
;  NUMBER OF SEQ ID NOS: 58
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 43
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Papilloma source
US-10-161-097-43

  Query Match             81.5%;  Score 44;  DB 4;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.32;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 YNKPLCD 9
              |||||||
Db          2 YNKPLCD 8


RESULT 27
US-10-437-963-133006
; Sequence 133006, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 133006
;   LENGTH: 234
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(234)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_3491C.1.pep
US-10-437-963-133006

  Query Match             74.1%;  Score 40;  DB 4;  Length 234;
  Best Local Similarity   77.8%;  Pred. No. 38;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |:|||| |
Db        111 QRYNKPLVD 119


RESULT 28
US-10-437-963-133028
; Sequence 133028, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
```

```
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 133028
;   LENGTH: 683
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(683)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_3493C.1.pep
US-10-437-963-133028

  Query Match             74.1%;  Score 40;  DB 4;  Length 683;
  Best Local Similarity   77.8%;  Pred. No. 1.1e+02;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |:||||| |
Db        397 QRYNKPLVD 405


RESULT 29
US-10-476-570-36
; Sequence 36, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 89-103
US-10-476-570-36

  Query Match             72.2%;  Score 39;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 3.9;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPL 7
              |||||||
Db          9 QQYNKPL 15


RESULT 30
US-10-424-599-171491
; Sequence 171491, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 171491
;   LENGTH: 114
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_125872C.1.pep
US-10-424-599-171491

  Query Match             72.2%;  Score 39;  DB 4;  Length 114;
  Best Local Similarity   75.0%;  Pred. No. 29;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 QYNKPLCD 9
              ||:|| ||
Db         44 QYSKPCCD 51


RESULT 31
US-10-425-115-299823
; Sequence 299823, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 299823
;   LENGTH: 212
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(212)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_36507C.1.pep
US-10-425-115-299823

  Query Match             72.2%;  Score 39;  DB 4;  Length 212;
  Best Local Similarity   77.8%;  Pred. No. 53;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              || :|||||
Db        195 QQGSKPLCD 203


RESULT 32
US-10-425-115-246016
; Sequence 246016, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
```

```
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 246016
;   LENGTH: 253
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_15594C.1.pep
US-10-425-115-246016

  Query Match             72.2%;  Score 39;  DB 4;  Length 253;
  Best Local Similarity   77.8%;  Pred. No. 63;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||:||| |
Db         58 QQYDKPLID 66


RESULT 33
US-10-425-114-64511
; Sequence 64511, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 64511
;   LENGTH: 262
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: LIB3066-023-B3_FLI.pep
US-10-425-114-64511

  Query Match             72.2%;  Score 39;  DB 4;  Length 262;
  Best Local Similarity   77.8%;  Pred. No. 65;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||:||| |
Db         67 QQYDKPLID 75


RESULT 34
US-10-425-114-72678
; Sequence 72678, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 72678
;   LENGTH: 448
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: LIB3594-023-C6_FLI.pep
US-10-425-114-72678

  Query Match             72.2%;  Score 39;  DB 4;  Length 448;
  Best Local Similarity   77.8%;  Pred. No. 1.1e+02;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              || :|||||
Db         66 QQGSKPLCD 74


RESULT 35
US-10-767-701-45294
; Sequence 45294, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
;  APPLICANT: Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof For Plant Improvement
;  FILE REFERENCE: 38-21(53535)B
;  CURRENT APPLICATION NUMBER: US/10/767,701
;  CURRENT FILING DATE:  2004-01-29
;  NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 45294
;   LENGTH: 572
;   TYPE: PRT
;   ORGANISM: Sorghum bicolor
;   FEATURE:
;   OTHER INFORMATION: Clone ID: SORBI-28MAY03-C49140_1.pep
US-10-767-701-45294

  Query Match             72.2%;  Score 39;  DB 4;  Length 572;
  Best Local Similarity   77.8%;  Pred. No. 1.4e+02;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              || :|||||
Db        190 QQGSKPLCD 198


RESULT 36
US-10-425-115-235491
; Sequence 235491, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 235491
;   LENGTH: 572
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_146349C.1.pep
US-10-425-115-235491
```

```
  Query Match             72.2%;  Score 39;  DB 4;  Length 572;
  Best Local Similarity   77.8%;  Pred. No. 1.4e+02;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              || :|||||
Db        190 QQGSKPLCD 198


RESULT 37
US-10-437-963-150743
; Sequence 150743, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 150743
;   LENGTH: 576
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_50952C.1.pep
US-10-437-963-150743

  Query Match             72.2%;  Score 39;  DB 4;  Length 576;
  Best Local Similarity   77.8%;  Pred. No. 1.4e+02;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              || :|||||
Db        194 QQGSKPLCD 202


RESULT 38
US-10-425-114-62427
; Sequence 62427, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 62427
;   LENGTH: 603
;   TYPE: PRT
;   ORGANISM: Oryza sativa nipponbare
;   FEATURE:
;   OTHER INFORMATION: Clone ID: JC-OSROLIB3475021B12_FLI.pep
US-10-425-114-62427

  Query Match             72.2%;  Score 39;  DB 4;  Length 603;
  Best Local Similarity   77.8%;  Pred. No. 1.5e+02;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              || :|||||
Db        221 QQGSKPLCD 229


RESULT 39
US-10-425-114-69012
; Sequence 69012, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 69012
;   LENGTH: 605
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: UC-ZMFLB73003G07_FLI.pep
US-10-425-114-69012

  Query Match             72.2%;  Score 39;  DB 4;  Length 605;
  Best Local Similarity   77.8%;  Pred. No. 1.5e+02;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              || :|||||
Db        223 QQGSKPLCD 231


RESULT 40
US-10-424-599-184614
; Sequence 184614, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 184614
;   LENGTH: 65
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_137722C.1.pep
US-10-424-599-184614

  Query Match             70.4%;  Score 38;  DB 4;  Length 65;
  Best Local Similarity   75.0%;  Pred. No. 25;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 QYNKPLCD 9
              ||:|| ||
Db         44 QYSKPSCD 51
```

```
RESULT 41
US-10-425-115-211981
; Sequence 211981, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 211981
;   LENGTH: 509
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_124926C.1.pep
US-10-425-115-211981

  Query Match             70.4%;  Score 38;  DB 4;  Length 509;
  Best Local Similarity   62.5%;  Pred. No. 1.9e+02;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 QYNKPLCD 9
              :|:||:||
Db         99 KYDKPICD 106


RESULT 42
US-10-425-115-191031
; Sequence 191031, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 191031
;   LENGTH: 529
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_10579C.1.pep
US-10-425-115-191031

  Query Match             70.4%;  Score 38;  DB 4;  Length 529;
  Best Local Similarity   62.5%;  Pred. No. 2e+02;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 QYNKPLCD 9
              :|:||:||
Db         99 KYDKPICD 106


RESULT 43
US-10-425-115-191021
; Sequence 191021, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 191021
;   LENGTH: 555
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_10578C.1.pep
US-10-425-115-191021

  Query Match             70.4%;  Score 38;  DB 4;  Length 555;
  Best Local Similarity   62.5%;  Pred. No. 2.1e+02;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 QYNKPLCD 9
              :|:||:||
Db         99 KYDKPICD 106


RESULT 44
US-10-369-493-1894
; Sequence 1894, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
;  APPLICANT: Cao, Yongwei
;  APPLICANT:  Hinkle, Gregory J.
;  APPLICANT:  Slater, Steven C.
;  APPLICANT:  Goldman, Barry S.
;  APPLICANT:  Chen, Xianfeng
;  TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
;  TITLE OF INVENTION:  PLANTS WITH IMPROVED PROPERTIES
;  FILE REFERENCE: 38-10(52052)B
;  CURRENT APPLICATION NUMBER: US/10/369,493
;  CURRENT FILING DATE:  2003-02-28
;  PRIOR APPLICATION NUMBER: US 60/360,039
;  PRIOR FILING DATE: 2002-02-21
;  NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 1894
;   LENGTH: 1656
;   TYPE: PRT
;   ORGANISM: Saccharomyces cerevisiae
US-10-369-493-1894

  Query Match             70.4%;  Score 38;  DB 4;  Length 1656;
  Best Local Similarity   55.6%;  Pred. No. 6.2e+02;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              :::||| ||
Db        132 ERFNKPYCD 140


RESULT 45
US-10-437-963-135294
; Sequence 135294, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
```

; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 135294
; LENGTH: 79
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_36984C.1.pep
US-10-437-963-135294

Query Match 68.5%; Score 37; DB 4; Length 79;
Best Local Similarity 75.0%; Pred. No. 46;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 QQYNKPLC 8
|| |:|||
Db 58 QQINRPLC 65

RESULT 46
US-09-954-342-16
; Sequence 16, Application US/09954342
; Publication No. US20030170838A1
; GENERAL INFORMATION:
; APPLICANT: MISHRA, VISHNU S.
; APPLICANT: SPYTEK, KIMBERLY ANN
; APPLICANT: TAUPIER, RAYMOND J.
; APPLICANT: VERNET, CORINE A.
; APPLICANT: COLMAN, STEVEN D.
; APPLICANT: GORMAN, LINDA
; APPLICANT: TCHERNEV, VELIZAR T.
; APPLICANT: MALYANKAR, URIEL M.
; APPLICANT: SHENOY, SURESH
; APPLICANT: PADIGARU, MURALIDHARA
; APPLICANT: GERLACH, VALERIE L.
; APPLICANT: MACDOUGALL, JOHN R.
; APPLICANT: SMITHSON, GLENNDA
; APPLICANT: MILLET, ISABELLE
; APPLICANT: PEYMAN, JOHN
; APPLICANT: STONE, DAVID
; APPLICANT: GUNTHER, ERIK
; APPLICANT: ELLERMAN, KAREN
; APPLICANT: LI, LI
; APPLICANT: RASTELLI, LUCA
; APPLICANT: ZERHUSEN, BRYAN
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES AND POLYPEPTIDES ENCODED THEREBY
; FILE REFERENCE: 21402-114
; CURRENT APPLICATION NUMBER: US/09/954,342
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: 60/233,382
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: 60/240,498
; PRIOR FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/260,284
; PRIOR FILING DATE: 2001-01-08
; PRIOR APPLICATION NUMBER: 60/260,973
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/264,794
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: 60/238,398
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/232,675
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: 60/274,862
; PRIOR FILING DATE: 2001-03-09
; PRIOR APPLICATION NUMBER: 60/233,801
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/232,676
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: 60/233,960
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: 60/233,402
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: 60/233,521
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/233,522
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/232,679
; PRIOR FILING DATE: 2000-09-15
; NUMBER OF SEQ ID NOS: 104
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 208
; TYPE: PRT
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: NOVX Polypeptide
US-09-954-342-16

Query Match 68.5%; Score 37; DB 3; Length 208;
Best Local Similarity 75.0%; Pred. No. 1.2e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 QYNKPLCD 9
|| ||||
Db 90 QYEMPLCD 97

RESULT 47
US-10-425-115-226921
; Sequence 226921, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 226921
; LENGTH: 240
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_138540C.1.pep
US-10-425-115-226921

Query Match 68.5%; Score 37; DB 4; Length 240;
Best Local Similarity 55.6%; Pred. No. 1.4e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QQYNKPLCD 9
::| || ||
Db 130 EKYTKPFCD 138

RESULT 48
US-09-954-342-41
; Sequence 41, Application US/09954342
; Publication No. US20030170838A1
; GENERAL INFORMATION:
; APPLICANT: MISHRA, VISHNU S.
; APPLICANT: SPYTEK, KIMBERLY ANN
; APPLICANT: TAUPIER, RAYMOND J.
; APPLICANT: VERNET, CORINE A.
; APPLICANT: COLMAN, STEVEN D.
; APPLICANT: GORMAN, LINDA
; APPLICANT: TCHERNEV, VELIZAR T.
; APPLICANT: MALYANKAR, URIEL M.
; APPLICANT: SHENOY, SURESH
; APPLICANT: PADIGARU, MURALIDHARA
; APPLICANT: GERLACH, VALERIE L.

```
;  APPLICANT:  MACDOUGALL, JOHN R.
;  APPLICANT:  SMITHSON, GLENNDA
;  APPLICANT:  MILLET, ISABELLE
;  APPLICANT:  PEYMAN, JOHN
;  APPLICANT:  STONE, DAVID
;  APPLICANT:  GUNTHER, ERIK
;  APPLICANT:  ELLERMAN, KAREN
;  APPLICANT:  LI, LI
;  APPLICANT:  RASTELLI, LUCA
;  APPLICANT:  ZERHUSEN, BRYAN
;  TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES AND POLYPEPTIDES ENCODED THEREBY
;  FILE REFERENCE: 21402-114
;  CURRENT APPLICATION NUMBER: US/09/954,342
;  CURRENT FILING DATE:  2001-09-17
;  PRIOR APPLICATION NUMBER: 60/233,382
;  PRIOR FILING DATE: 2000-09-18
;  PRIOR APPLICATION NUMBER: 60/240,498
;  PRIOR FILING DATE: 2000-10-13
;  PRIOR APPLICATION NUMBER: 60/260,284
;  PRIOR FILING DATE: 2001-01-08
;  PRIOR APPLICATION NUMBER: 60/260,973
;  PRIOR FILING DATE: 2001-01-11
;  PRIOR APPLICATION NUMBER: 60/264,794
;  PRIOR FILING DATE: 2001-01-29
;  PRIOR APPLICATION NUMBER: 60/238,398
;  PRIOR FILING DATE: 2000-10-06
;  PRIOR APPLICATION NUMBER: 60/232,675
;  PRIOR FILING DATE: 2000-09-15
;  PRIOR APPLICATION NUMBER: 60/274,862
;  PRIOR FILING DATE: 2001-03-09
;  PRIOR APPLICATION NUMBER: 60/233,801
;  PRIOR FILING DATE: 2000-09-19
;  PRIOR APPLICATION NUMBER: 60/232,676
;  PRIOR FILING DATE: 2000-09-15
;  PRIOR APPLICATION NUMBER: 60/233,960
;  PRIOR FILING DATE: 2000-09-20
;  PRIOR APPLICATION NUMBER: 60/233,402
;  PRIOR FILING DATE: 2000-09-18
;  PRIOR APPLICATION NUMBER: 60/233,521
;  PRIOR FILING DATE: 2000-09-19
;  PRIOR APPLICATION NUMBER: 60/233,522
;  PRIOR FILING DATE: 2000-09-19
;  PRIOR APPLICATION NUMBER: 60/232,679
;  PRIOR FILING DATE: 2000-09-15
;  NUMBER OF SEQ ID NOS: 104
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 41
;   LENGTH: 264
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-09-954-342-41

  Query Match             68.5%;  Score 37;  DB 3;  Length 264;
  Best Local Similarity   75.0%;  Pred. No. 1.5e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 QYNKPLCD 9
              ||  ||||
Db         90 QYEMPLCD 97


RESULT 49
US-10-051-874-109
; Sequence 109, Application US/10051874
; Publication No. US20040005557A1
; GENERAL INFORMATION:
;  APPLICANT: Padigaru, Muralidhara
;  APPLICANT:  Alsobrook II, John P
;  APPLICANT:  Colman, Steven D
;  APPLICANT:  Spytek, Kimberly A
;  APPLICANT:  Boldog, Ferenc
;  APPLICANT:  Vernet, Corine AM
;  APPLICANT:  Li, Li
;  APPLICANT:  Shenoy, Suresh G
;  APPLICANT:  Casman, Stacie J
;  APPLICANT:  Guo, Xiaojia Sasha
;  APPLICANT:  Edinger, Shlomit R
;  APPLICANT:  MacDougall, John R
;  APPLICANT:  Malyankar, Uriel M
;  APPLICANT:  Patturajan, Meera
;  APPLICANT:  Shimkets, Richard A
;  APPLICANT:  Pena, Carol EA
;  APPLICANT:  Tchernev, Velizar T
;  APPLICANT:  Zerhusen, Bryan D
;  APPLICANT:  Millet, Isabelle
;  APPLICANT:  Miller, Charles E
;  APPLICANT:  Lepley, Denise M
;  APPLICANT:  Smithson, Glennda
;  APPLICANT:  Baumgartner, Jason C
;  APPLICANT:  Herrman, John L
;  APPLICANT:  Peyman, John A
;  APPLICANT:  Gorman, Linda
;  APPLICANT:  Mezes, Peter D
;  APPLICANT:  Kekuda, Ramesh
;  APPLICANT:  Taupier Jr, Raymond J
;  APPLICANT:  Gerlach, Valerie
;  APPLICANT:  Grosse, William M
;  APPLICANT:  Liu, Xiaohong
;  APPLICANT:  Ellerman, Karen
;  APPLICANT:  Rothenberg, Mark
;  APPLICANT:  Stone, David J
;  APPLICANT:  Burgess, Catherine E
;  TITLE OF INVENTION: PROTEINS, POLYNUCLEOTIDES ENCODING THEM AND METHODS OF
;  TITLE OF INVENTION:  USING THE SAME
;  FILE REFERENCE: 21402-245
;  CURRENT APPLICATION NUMBER: US/10/051,874
;  CURRENT FILING DATE:  2002-09-25
;  PRIOR APPLICATION NUMBER: 60/268,595
;  PRIOR FILING DATE: 2001-02-14
;  PRIOR APPLICATION NUMBER: 60/325,306
;  PRIOR FILING DATE: 2001-09-27
;  PRIOR APPLICATION NUMBER: 60/262,587
;  PRIOR FILING DATE: 2001-01-18
;  PRIOR APPLICATION NUMBER: 60/272,409
;  PRIOR FILING DATE: 2001-02-28
;  PRIOR APPLICATION NUMBER: 60/262,454
;  PRIOR FILING DATE: 2001-01-18
;  PRIOR APPLICATION NUMBER: 60/276,777
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/291,672
;  PRIOR FILING DATE: 2001-05-17
;  PRIOR APPLICATION NUMBER: 60/330,336
;  PRIOR FILING DATE: 2001-10-18
;  PRIOR APPLICATION NUMBER: 60/265,530
;  PRIOR FILING DATE: 2001-01-31
;  PRIOR APPLICATION NUMBER: 60/261,376
;  PRIOR FILING DATE: 2001-01-16
;  NUMBER OF SEQ ID NOS: 269
;  SOFTWARE: PatentIn Ver. 2.1
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; APPLICANT: MacDougall, John R.
; APPLICANT: Millet, Isabelle
; APPLICANT: Ellerman, Karen
; APPLICANT: Stone, David J.
; APPLICANT: Grosse, William M.
; APPLICANT: Lepley, Denise M.
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Burgess, Cathereine E.
; APPLICANT: Casman, Stacie, J.
; APPLICANT: Spytek, Kimberly A.
; APPLICANT: Boldog, Ferenc L.
; APPLICANT: Li, Li
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Mishra, Vishnu
; APPLICANT: Shenoy, Suresh G.
; APPLICANT: Rastelli, Luca
; APPLICANT: Tchernev, Velizar T.
; APPLICANT: Vernet, Corine A.M.
; APPLICANT: Zerhusen, Bryan D.
; APPLICANT: Malyankar, Uriel M.
; APPLICANT: Guo, Xiaojia
; APPLICANT: Miller, Charles E.
; APPLICANT: Gangolli, Esha A.
; TITLE OF INVENTION: PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-214 CIP
; CURRENT APPLICATION NUMBER: US/10/087,684
; CURRENT FILING DATE: 2003-03-10
; PRIOR APPLICATION NUMBER: 60/253,834
; PRIOR FILING DATE: 2000-11-29
; PRIOR APPLICATION NUMBER: 60/250,926
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| 203 | 28 | 51.9 | 213 | 11 | US-11-229-769-170 | Sequence 170, App |
| 204 | 28 | 51.9 | 214 | 11 | US-11-087-099-2539 | Sequence 2539, Ap |
| 205 | 28 | 51.9 | 214 | 11 | US-11-096-568A-8683 | Sequence 8683, Ap |
| 206 | 28 | 51.9 | 220 | 11 | US-11-234-786-327 | Sequence 327, App |
| 207 | 28 | 51.9 | 221 | 11 | US-11-096-568A-5522 | Sequence 5522, Ap |
| 208 | 28 | 51.9 | 228 | 9 | US-10-793-626-970 | Sequence 970, App |
| 209 | 28 | 51.9 | 228 | 9 | US-10-467-657-7522 | Sequence 7522, Ap |
| 210 | 28 | 51.9 | 232 | 11 | US-11-100-183-49 | Sequence 49, Appl |
| 211 | 28 | 51.9 | 233 | 11 | US-11-096-568A-16636 | Sequence 16636, A |
| 212 | 28 | 51.9 | 234 | 11 | US-11-172-740-2220 | Sequence 2220, Ap |
| 213 | 28 | 51.9 | 244 | 9 | US-10-784-004-1173 | Sequence 1173, Ap |
| 214 | 28 | 51.9 | 244 | 9 | US-10-784-004-1221 | Sequence 1221, Ap |
| 215 | 28 | 51.9 | 244 | 11 | US-11-096-568A-5521 | Sequence 5521, Ap |
| 216 | 28 | 51.9 | 246 | 9 | US-10-880-881-59 | Sequence 59, Appl |
| 217 | 28 | 51.9 | 248 | 8 | US-10-511-937-2936 | Sequence 2936, Ap |
| 218 | 28 | 51.9 | 248 | 9 | US-10-528-168-3 | Sequence 3, Appli |
| 219 | 28 | 51.9 | 253 | 11 | US-11-087-099-9932 | Sequence 9932, Ap |
| 220 | 28 | 51.9 | 254 | 11 | US-11-234-786-523 | Sequence 523, App |
| 221 | 28 | 51.9 | 254 | 11 | US-11-234-786-525 | Sequence 525, App |
| 222 | 28 | 51.9 | 257 | 11 | US-11-188-298-8855 | Sequence 8855, Ap |
| 223 | 28 | 51.9 | 277 | 9 | US-10-644-807-385 | Sequence 385, App |
| 224 | 28 | 51.9 | 285 | 11 | US-11-079-463-5517 | Sequence 5517, Ap |
| 225 | 28 | 51.9 | 298 | 11 | US-11-096-568A-19468 | Sequence 19468, A |
| 226 | 28 | 51.9 | 310 | 9 | US-10-131-826A-152 | Sequence 152, App |
| 227 | 28 | 51.9 | 310 | 9 | US-10-973-115B-152 | Sequence 152, App |
| 228 | 28 | 51.9 | 310 | 9 | US-10-218-784-228 | Sequence 228, App |
| 229 | 28 | 51.9 | 310 | 9 | US-10-219-061-228 | Sequence 228, App |
| 230 | 28 | 51.9 | 310 | 9 | US-10-219-062-228 | Sequence 228, App |
| 231 | 28 | 51.9 | 310 | 9 | US-10-219-064-228 | Sequence 228, App |
| 232 | 28 | 51.9 | 310 | 9 | US-10-233-134-228 | Sequence 228, App |
| 233 | 28 | 51.9 | 310 | 9 | US-10-137-873A-152 | Sequence 152, App |
| 234 | 28 | 51.9 | 310 | 9 | US-10-152-370-152 | Sequence 152, App |
| 235 | 28 | 51.9 | 310 | 11 | US-11-043-806-394 | Sequence 394, App |
| 236 | 28 | 51.9 | 310 | 11 | US-11-043-806-395 | Sequence 395, App |
| 237 | 28 | 51.9 | 310 | 11 | US-11-043-806-397 | Sequence 397, App |
| 238 | 28 | 51.9 | 310 | 11 | US-11-290-153-152 | Sequence 152, App |
| 239 | 28 | 51.9 | 331 | 9 | US-10-793-626-874 | Sequence 874, App |
| 240 | 28 | 51.9 | 331 | 9 | US-10-793-626-2244 | Sequence 2244, Ap |

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| 242 | 28 | 51.9 | 334 | 11 | US-11-188-298-7447 | Sequence 7447, Ap |
| 243 | 28 | 51.9 | 338 | 11 | US-11-188-298-15117 | Sequence 15117, A |
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| 245 | 28 | 51.9 | 349 | 11 | US-11-096-568A-28392 | Sequence 28392, A |
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| 250 | 28 | 51.9 | 360 | 11 | US-11-188-298-12915 | Sequence 12915, A |
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| 252 | 28 | 51.9 | 369 | 11 | US-11-024-959-485 | Sequence 485, App |
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| 254 | 28 | 51.9 | 372 | 11 | US-11-024-959-362 | Sequence 362, App |
| 255 | 28 | 51.9 | 372 | 11 | US-11-096-568A-32488 | Sequence 32488, A |
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| 259 | 28 | 51.9 | 379 | 11 | US-11-188-298-9209 | Sequence 9209, Ap |
| 260 | 28 | 51.9 | 379 | 11 | US-11-188-298-12077 | Sequence 12077, A |
| 261 | 28 | 51.9 | 379 | 11 | US-11-188-298-13625 | Sequence 13625, A |
| 262 | 28 | 51.9 | 379 | 11 | US-11-188-298-17015 | Sequence 17015, A |
| 263 | 28 | 51.9 | 380 | 11 | US-11-188-298-2231 | Sequence 2231, Ap |
| 264 | 28 | 51.9 | 380 | 11 | US-11-188-298-15608 | Sequence 15608, A |
| 265 | 28 | 51.9 | 381 | 11 | US-11-098-686-11284 | Sequence 11284, A |
| 266 | 28 | 51.9 | 382 | 11 | US-11-188-298-8353 | Sequence 8353, Ap |
| 267 | 28 | 51.9 | 386 | 11 | US-11-096-568A-19467 | Sequence 19467, A |
| 268 | 28 | 51.9 | 395 | 11 | US-11-188-298-1396 | Sequence 1396, Ap |
| 269 | 28 | 51.9 | 395 | 11 | US-11-188-298-3615 | Sequence 3615, Ap |
| 270 | 28 | 51.9 | 396 | 11 | US-11-096-568A-32487 | Sequence 32487, A |
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| 274 | 28 | 51.9 | 424 | 11 | US-11-188-298-5306 | Sequence 5306, Ap |
| 275 | 28 | 51.9 | 426 | 11 | US-11-188-298-5527 | Sequence 5527, Ap |
| 276 | 28 | 51.9 | 430 | 11 | US-11-098-686-11038 | Sequence 11038, A |
| 277 | 28 | 51.9 | 439 | 11 | US-11-188-298-3422 | Sequence 3422, Ap |
| 278 | 28 | 51.9 | 442 | 11 | US-11-264-096-1368 | Sequence 1368, Ap |
| 279 | 28 | 51.9 | 443 | 11 | US-11-188-298-18418 | Sequence 18418, A |
| 280 | 28 | 51.9 | 447 | 11 | US-11-188-298-4446 | Sequence 4446, Ap |
| 281 | 28 | 51.9 | 448 | 11 | US-11-188-298-11421 | Sequence 11421, A |
| 282 | 28 | 51.9 | 449 | 11 | US-11-234-786-617 | Sequence 617, App |
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| 291 | 28 | 51.9 | 457 | 11 | US-11-188-298-14286 | Sequence 14286, A |
| 292 | 28 | 51.9 | 458 | 11 | US-11-096-568A-21941 | Sequence 21941, A |
| 293 | 28 | 51.9 | 458 | 11 | US-11-188-298-12266 | Sequence 12266, A |
| 294 | 28 | 51.9 | 459 | 11 | US-11-188-298-6376 | Sequence 6376, Ap |
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| 296 | 28 | 51.9 | 461 | 11 | US-11-188-298-14491 | Sequence 14491, A |
| 297 | 28 | 51.9 | 462 | 11 | US-11-188-298-16428 | Sequence 16428, A |
| 298 | 28 | 51.9 | 463 | 11 | US-11-264-096-212 | Sequence 212, App |
| 299 | 28 | 51.9 | 465 | 11 | US-11-188-298-6147 | Sequence 6147, Ap |
| 300 | 28 | 51.9 | 465 | 11 | US-11-188-298-13700 | Sequence 13700, A |
| 301 | 28 | 51.9 | 472 | 11 | US-11-087-099-5482 | Sequence 5482, Ap |
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| 308 | 28 | 51.9 | 492 | 11 | US-11-188-298-14410 | Sequence 14410, A |
| 309 | 28 | 51.9 | 492 | 11 | US-11-188-298-18524 | Sequence 18524, A |
| 310 | 28 | 51.9 | 493 | 11 | US-11-188-298-10658 | Sequence 10658, A |
| 311 | 28 | 51.9 | 505 | 9 | US-10-519-447-4 | Sequence 4, Appli |
| 312 | 28 | 51.9 | 505 | 10 | US-11-242-111-28 | Sequence 28, Appl |
| 313 | 28 | 51.9 | 506 | 11 | US-11-188-298-12769 | Sequence 12769, A |
| 314 | 28 | 51.9 | 507 | 11 | US-11-188-298-1536 | Sequence 1536, Ap |
| 315 | 28 | 51.9 | 508 | 9 | US-10-878-556A-154 | Sequence 154, App |
| 316 | 28 | 51.9 | 512 | 11 | US-11-087-099-12218 | Sequence 12218, A |
| 317 | 28 | 51.9 | 515 | 11 | US-11-188-298-21436 | Sequence 21436, A |
| 318 | 28 | 51.9 | 532 | 11 | US-11-079-463-5688 | Sequence 5688, Ap |
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| 322 | 28 | 51.9 | 551 | 11 | US-11-152-366-42 | Sequence 42, Appl |
| 323 | 28 | 51.9 | 562 | 11 | US-11-288-493-78 | Sequence 78, Appl |
| 324 | 28 | 51.9 | 565 | 11 | US-11-127-877-68 | Sequence 68, Appl |
| 325 | 28 | 51.9 | 565 | 11 | US-11-152-366-41 | Sequence 41, Appl |
| 326 | 28 | 51.9 | 569 | 11 | US-11-079-463-8795 | Sequence 8795, Ap |
| 327 | 28 | 51.9 | 599 | 9 | US-10-506-454-91 | Sequence 91, Appl |
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| 329 | 28 | 51.9 | 616 | 9 | US-10-995-561-1022 | Sequence 1022, Ap |
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| 332 | 28 | 51.9 | 638 | 11 | US-11-054-281-111 | Sequence 111, App |
| 333 | 28 | 51.9 | 638 | 11 | US-11-054-281-112 | Sequence 112, App |
| 334 | 28 | 51.9 | 638 | 11 | US-11-054-281-114 | Sequence 114, App |
| 335 | 28 | 51.9 | 638 | 11 | US-11-054-281-115 | Sequence 115, App |
| 336 | 28 | 51.9 | 681 | 11 | US-11-079-463-9982 | Sequence 9982, Ap |
| 337 | 28 | 51.9 | 708 | 11 | US-11-174-150-25 | Sequence 25, Appl |
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| 339 | 28 | 51.9 | 709 | 11 | US-11-188-298-5170 | Sequence 5170, Ap |
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| 342 | 28 | 51.9 | 732 | 9 | US-10-995-561-1020 | Sequence 1020, Ap |
| 343 | 28 | 51.9 | 732 | 11 | US-11-188-298-347 | Sequence 347, App |
| 344 | 28 | 51.9 | 738 | 11 | US-11-188-298-2319 | Sequence 2319, Ap |
| 345 | 28 | 51.9 | 740 | 11 | US-11-188-298-3509 | Sequence 3509, Ap |
| 346 | 28 | 51.9 | 740 | 11 | US-11-188-298-7874 | Sequence 7874, Ap |
| 347 | 28 | 51.9 | 812 | 11 | US-11-072-512-2027 | Sequence 2027, Ap |
| 348 | 28 | 51.9 | 843 | 11 | US-11-188-298-10483 | Sequence 10483, A |
| 349 | 28 | 51.9 | 964 | 11 | US-11-024-959-477 | Sequence 477, App |
| 350 | 28 | 51.9 | 1145 | 11 | US-11-188-298-16637 | Sequence 16637, A |
| 351 | 28 | 51.9 | 1160 | 9 | US-10-995-561-1019 | Sequence 1019, Ap |
| 352 | 28 | 51.9 | 1228 | 11 | US-11-188-298-2731 | Sequence 2731, Ap |
| 353 | 28 | 51.9 | 1302 | 9 | US-10-995-561-1024 | Sequence 1024, Ap |
| 354 | 28 | 51.9 | 1306 | 9 | US-10-995-561-1027 | Sequence 1027, Ap |
| 355 | 28 | 51.9 | 1368 | 9 | US-10-770-303-2 | Sequence 2, Appli |
| 356 | 28 | 51.9 | 1368 | 11 | US-11-185-372-2 | Sequence 2, Appli |
| 357 | 28 | 51.9 | 1841 | 11 | US-11-057-058-63 | Sequence 63, Appl |
| 358 | 28 | 51.9 | 3028 | 9 | US-10-455-772-276 | Sequence 276, App |
| 359 | 28 | 51.9 | 3028 | 9 | US-10-455-772-284 | Sequence 284, App |
| 360 | 28 | 51.9 | 3028 | 9 | US-10-455-772-286 | Sequence 286, App |
| 361 | 28 | 51.9 | 3028 | 9 | US-10-455-772-288 | Sequence 288, App |
| 362 | 28 | 51.9 | 4060 | 9 | US-10-922-232B-55 | Sequence 55, Appl |
| 363 | 28 | 51.9 | 6738 | 9 | US-10-922-232B-56 | Sequence 56, Appl |
| 364 | 27.5 | 50.9 | 314 | 11 | US-11-096-568A-3237 | Sequence 3237, Ap |
| 365 | 27.5 | 50.9 | 400 | 11 | US-11-096-568A-3236 | Sequence 3236, Ap |
| 366 | 27.5 | 50.9 | 418 | 11 | US-11-096-568A-3235 | Sequence 3235, Ap |
| 367 | 27.5 | 50.9 | 436 | 11 | US-11-096-568A-3234 | Sequence 3234, Ap |
| 368 | 27.5 | 50.9 | 480 | 11 | US-11-096-568A-4281 | Sequence 4281, Ap |
| 369 | 27.5 | 50.9 | 483 | 11 | US-11-096-568A-4280 | Sequence 4280, Ap |
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| 373 | 27 | 50.0 | 26 | 11 | US-11-004-399-2120 | Sequence 2120, Ap |
| 374 | 27 | 50.0 | 88 | 9 | US-10-498-026-27 | Sequence 27, Appl |
| 375 | 27 | 50.0 | 88 | 11 | US-11-033-039-135 | Sequence 135, App |
| 376 | 27 | 50.0 | 89 | 9 | US-10-467-657-6106 | Sequence 6106, Ap |
| 377 | 27 | 50.0 | 92 | 9 | US-10-498-026-28 | Sequence 28, Appl |
| 378 | 27 | 50.0 | 94 | 11 | US-11-264-096-1552 | Sequence 1552, Ap |
| 379 | 27 | 50.0 | 110 | 11 | US-11-096-568A-13963 | Sequence 13963, A |
| 380 | 27 | 50.0 | 114 | 11 | US-11-096-568A-31955 | Sequence 31955, A |
| 381 | 27 | 50.0 | 119 | 11 | US-11-096-568A-14137 | Sequence 14137, A |
| 382 | 27 | 50.0 | 126 | 9 | US-10-821-234-1222 | Sequence 1222, Ap |
| 383 | 27 | 50.0 | 130 | 11 | US-11-096-568A-22118 | Sequence 22118, A |
| 384 | 27 | 50.0 | 149 | 9 | US-10-530-253-18 | Sequence 18, Appl |
| 385 | 27 | 50.0 | 149 | 11 | US-11-188-298-1766 | Sequence 1766, Ap |
| 386 | 27 | 50.0 | 150 | 11 | US-11-096-568A-10114 | Sequence 10114, A |

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| 389 | 27 | 50.0 | 174 | 11 | US-11-087-099-8101 | Sequence 8101, Ap |
| 390 | 27 | 50.0 | 175 | 11 | US-11-096-568A-31954 | Sequence 31954, A |
| 391 | 27 | 50.0 | 178 | 11 | US-11-098-686-10409 | Sequence 10409, A |
| 392 | 27 | 50.0 | 180 | 11 | US-11-045-004-1496 | Sequence 1496, Ap |
| 393 | 27 | 50.0 | 183 | 11 | US-11-096-568A-31109 | Sequence 31109, A |
| 394 | 27 | 50.0 | 185 | 11 | US-11-096-568A-10113 | Sequence 10113, A |
| 395 | 27 | 50.0 | 188 | 11 | US-11-087-099-3298 | Sequence 3298, Ap |
| 396 | 27 | 50.0 | 189 | 11 | US-11-096-568A-11559 | Sequence 11559, A |
| 397 | 27 | 50.0 | 197 | 11 | US-11-087-099-4781 | Sequence 4781, Ap |
| 398 | 27 | 50.0 | 197 | 11 | US-11-096-568A-3362 | Sequence 3362, Ap |
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| 408 | 27 | 50.0 | 214 | 11 | US-11-087-099-1937 | Sequence 1937, Ap |
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| 411 | 27 | 50.0 | 214 | 11 | US-11-087-099-2910 | Sequence 2910, Ap |
| 412 | 27 | 50.0 | 214 | 11 | US-11-087-099-3619 | Sequence 3619, Ap |
| 413 | 27 | 50.0 | 214 | 11 | US-11-087-099-3663 | Sequence 3663, Ap |
| 414 | 27 | 50.0 | 214 | 11 | US-11-087-099-3751 | Sequence 3751, Ap |
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| 418 | 27 | 50.0 | 214 | 11 | US-11-087-099-4486 | Sequence 4486, Ap |
| 419 | 27 | 50.0 | 214 | 11 | US-11-087-099-4629 | Sequence 4629, Ap |
| 420 | 27 | 50.0 | 214 | 11 | US-11-087-099-4949 | Sequence 4949, Ap |
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| 450 | 27 | 50.0 | 228 | 11 | US-11-096-568A-6859 | Sequence 6859, Ap |
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| 453 | 27 | 50.0 | 231 | 11 | US-11-096-568A-10825 | Sequence 10825, A |
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| 455 | 27 | 50.0 | 241 | 11 | US-11-096-568A-10112 | Sequence 10112, A |
| 456 | 27 | 50.0 | 244 | 11 | US-11-096-568A-8254 | Sequence 8254, Ap |
| 457 | 27 | 50.0 | 247 | 11 | US-11-188-298-2606 | Sequence 2606, Ap |
| 458 | 27 | 50.0 | 250 | 11 | US-11-096-568A-30582 | Sequence 30582, A |
| 459 | 27 | 50.0 | 258 | 11 | US-11-096-568A-30581 | Sequence 30581, A |
| 460 | 27 | 50.0 | 263 | 11 | US-11-096-568A-28465 | Sequence 28465, A |
| 461 | 27 | 50.0 | 263 | 11 | US-11-096-568A-32305 | Sequence 32305, A |
| 462 | 27 | 50.0 | 263 | 11 | US-11-096-568A-33677 | Sequence 33677, A |
| 463 | 27 | 50.0 | 264 | 11 | US-11-096-568A-3361 | Sequence 3361, Ap |
| 464 | 27 | 50.0 | 264 | 11 | US-11-188-298-20286 | Sequence 20286, A |
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| 466 | 27 | 50.0 | 266 | 11 | US-11-087-099-5256 | Sequence 5256, Ap |
| 467 | 27 | 50.0 | 266 | 11 | US-11-087-099-10777 | Sequence 10777, A |
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| 470 | 27 | 50.0 | 269 | 11 | US-11-096-568A-33676 | Sequence 33676, A |
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| 472 | 27 | 50.0 | 274 | 11 | US-11-096-568A-28464 | Sequence 28464, A |
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| 476 | 27 | 50.0 | 286 | 11 | US-11-096-568A-31559 | Sequence 31559, A |
| 477 | 27 | 50.0 | 287 | 11 | US-11-096-568A-31107 | Sequence 31107, A |
| 478 | 27 | 50.0 | 291 | 11 | US-11-102-883-22 | Sequence 22, Appl |
| 479 | 27 | 50.0 | 291 | 11 | US-11-096-568A-5352 | Sequence 5352, Ap |
| 480 | 27 | 50.0 | 292 | 11 | US-11-188-298-8276 | Sequence 8276, Ap |
| 481 | 27 | 50.0 | 292 | 11 | US-11-188-298-8781 | Sequence 8781, Ap |
| 482 | 27 | 50.0 | 294 | 11 | US-11-096-568A-31558 | Sequence 31558, A |
| 483 | 27 | 50.0 | 296 | 11 | US-11-096-568A-8253 | Sequence 8253, Ap |
| 484 | 27 | 50.0 | 299 | 11 | US-11-074-374-12 | Sequence 12, Appl |
| 485 | 27 | 50.0 | 299 | 11 | US-11-079-463-7240 | Sequence 7240, Ap |
| 486 | 27 | 50.0 | 299 | 11 | US-11-154-293-24 | Sequence 24, Appl |
| 487 | 27 | 50.0 | 300 | 11 | US-11-096-568A-3360 | Sequence 3360, Ap |
| 488 | 27 | 50.0 | 301 | 11 | US-11-188-298-11648 | Sequence 11648, A |
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| 496 | 27 | 50.0 | 310 | 11 | US-11-166-892-23 | Sequence 23, Appl |
| 497 | 27 | 50.0 | 310 | 11 | US-11-048-490-5 | Sequence 5, Appli |
| 498 | 27 | 50.0 | 310 | 11 | US-11-074-374-14 | Sequence 14, Appl |
| 499 | 27 | 50.0 | 310 | 11 | US-11-077-664-5 | Sequence 5, Appli |
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| 507 | 27 | 50.0 | 335 | 11 | US-11-288-493-58 | Sequence 58, Appl |
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| 516 | 27 | 50.0 | 357 | 11 | US-11-188-298-19266 | Sequence 19266, A |
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| 518 | 27 | 50.0 | 361 | 11 | US-11-172-740-668 | Sequence 668, App |
| 519 | 27 | 50.0 | 362 | 11 | US-11-188-298-4125 | Sequence 4125, Ap |
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| 524 | 27 | 50.0 | 371 | 11 | US-11-087-099-5787 | Sequence 5787, Ap |
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| 526 | 27 | 50.0 | 380 | 11 | US-11-087-099-2965 | Sequence 2965, Ap |
| 527 | 27 | 50.0 | 381 | 9 | US-10-996-104A-4 | Sequence 4, Appli |
| 528 | 27 | 50.0 | 381 | 11 | US-11-188-298-5846 | Sequence 5846, Ap |
| 529 | 27 | 50.0 | 384 | 9 | US-10-987-856-15 | Sequence 15, Appl |
| 530 | 27 | 50.0 | 384 | 11 | US-11-080-991-26 | Sequence 26, Appl |
| 531 | 27 | 50.0 | 384 | 11 | US-11-183-615-4 | Sequence 4, Appli |
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| 538 | 27 | 50.0 | 409 | 11 | US-11-096-568A-9380 | Sequence 9380, Ap |
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| 545 | 27 | 50.0 | 428 | 11 | US-11-096-568A-30441 | Sequence 30441, A |
| 546 | 27 | 50.0 | 429 | 11 | US-11-079-463-10419 | Sequence 10419, A |
| 547 | 27 | 50.0 | 430 | 11 | US-11-045-004-934 | Sequence 934, App |
| 548 | 27 | 50.0 | 438 | 11 | US-11-096-568A-34310 | Sequence 34310, A |
| 549 | 27 | 50.0 | 442 | 11 | US-11-079-463-9046 | Sequence 9046, Ap |
| 550 | 27 | 50.0 | 452 | 11 | US-11-096-568A-9903 | Sequence 9903, Ap |
| 551 | 27 | 50.0 | 454 | 9 | US-10-517-702-1 | Sequence 1, Appli |
| 552 | 27 | 50.0 | 454 | 11 | US-11-184-834-1 | Sequence 1, Appli |
| 553 | 27 | 50.0 | 455 | 9 | US-10-847-867-1 | Sequence 1, Appli |
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| 555 | 27 | 50.0 | 455 | 9 | US-10-847-867-29 | Sequence 29, Appl |
| 556 | 27 | 50.0 | 455 | 9 | US-10-847-867-30 | Sequence 30, Appl |
| 557 | 27 | 50.0 | 455 | 9 | US-10-847-867-31 | Sequence 31, Appl |
| 558 | 27 | 50.0 | 455 | 9 | US-10-847-867-32 | Sequence 32, Appl |
| 559 | 27 | 50.0 | 455 | 9 | US-10-847-867-33 | Sequence 33, Appl |
| 560 | 27 | 50.0 | 455 | 9 | US-10-847-867-34 | Sequence 34, Appl |
| 561 | 27 | 50.0 | 456 | 11 | US-11-079-463-5282 | Sequence 5282, Ap |
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| 564 | 27 | 50.0 | 465 | 11 | US-11-096-568A-9902 | Sequence 9902, Ap |
| 565 | 27 | 50.0 | 468 | 10 | US-11-242-111-27 | Sequence 27, Appl |
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| 567 | 27 | 50.0 | 476 | 9 | US-10-878-556A-158 | Sequence 158, App |
| 568 | 27 | 50.0 | 480 | 9 | US-10-847-867-3 | Sequence 3, Appli |
| 569 | 27 | 50.0 | 480 | 9 | US-10-194-487-82 | Sequence 82, Appl |
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| 573 | 27 | 50.0 | 480 | 9 | US-10-216-161A-385 | Sequence 385, App |
| 574 | 27 | 50.0 | 480 | 11 | US-11-096-568A-6010 | Sequence 6010, Ap |
| 575 | 27 | 50.0 | 480 | 11 | US-11-264-096-2154 | Sequence 2154, Ap |
| 576 | 27 | 50.0 | 484 | 9 | US-10-467-657-8518 | Sequence 8518, Ap |
| 577 | 27 | 50.0 | 484 | 11 | US-11-096-568A-6009 | Sequence 6009, Ap |
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| 590 | 27 | 50.0 | 551 | 9 | US-10-714-887-198 | Sequence 198, App |
| 591 | 27 | 50.0 | 558 | 11 | US-11-133-360-19 | Sequence 19, Appl |
| 592 | 27 | 50.0 | 558 | 11 | US-11-133-346-19 | Sequence 19, Appl |
| 593 | 27 | 50.0 | 558 | 11 | US-11-188-298-5628 | Sequence 5628, Ap |
| 594 | 27 | 50.0 | 560 | 11 | US-11-033-039-1312 | Sequence 1312, Ap |
| 595 | 27 | 50.0 | 560 | 11 | US-11-131-479-22 | Sequence 22, Appl |
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| 597 | 27 | 50.0 | 641 | 11 | US-11-094-519A-29 | Sequence 29, Appl |
| 598 | 27 | 50.0 | 670 | 11 | US-11-079-463-5950 | Sequence 5950, Ap |
| 599 | 27 | 50.0 | 775 | 11 | US-11-087-099-6419 | Sequence 6419, Ap |
| 600 | 27 | 50.0 | 787 | 11 | US-11-072-175-239 | Sequence 239, App |
| 601 | 27 | 50.0 | 821 | 11 | US-11-188-298-22480 | Sequence 22480, A |
| 602 | 27 | 50.0 | 825 | 11 | US-11-087-099-1341 | Sequence 1341, Ap |
| 603 | 27 | 50.0 | 825 | 11 | US-11-188-298-1365 | Sequence 1365, Ap |
| 604 | 27 | 50.0 | 842 | 11 | US-11-221-470-50 | Sequence 50, Appl |
| 605 | 27 | 50.0 | 879 | 9 | US-10-330-773-258 | Sequence 258, App |
| 606 | 27 | 50.0 | 882 | 9 | US-10-194-487-574 | Sequence 574, App |
| 607 | 27 | 50.0 | 882 | 9 | US-10-195-883-574 | Sequence 574, App |
| 608 | 27 | 50.0 | 882 | 9 | US-10-195-888-574 | Sequence 574, App |
| 609 | 27 | 50.0 | 882 | 9 | US-10-195-889-574 | Sequence 574, App |
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| 611 | 27 | 50.0 | 938 | 9 | US-10-491-468-16 | Sequence 16, Appl |
| 612 | 27 | 50.0 | 960 | 11 | US-11-169-041-177 | Sequence 177, App |
| 613 | 27 | 50.0 | 1023 | 11 | US-11-079-463-6368 | Sequence 6368, Ap |
| 614 | 27 | 50.0 | 1057 | 9 | US-10-330-773-253 | Sequence 253, App |
| 615 | 27 | 50.0 | 1067 | 8 | US-10-514-462-2 | Sequence 2, Appli |
| 616 | 27 | 50.0 | 1068 | 9 | US-10-902-137-8 | Sequence 8, Appli |
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| 622 | 27 | 50.0 | 1122 | 9 | US-10-330-773-260 | Sequence 260, App |
| 623 | 27 | 50.0 | 1142 | 9 | US-10-501-035-376 | Sequence 376, App |
| 624 | 27 | 50.0 | 1142 | 11 | US-11-109-156-22 | Sequence 22, Appl |
| 625 | 27 | 50.0 | 1150 | 9 | US-10-821-234-1083 | Sequence 1083, Ap |
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| 629 | 27 | 50.0 | 1175 | 11 | US-11-079-463-9066 | Sequence 9066, Ap |
| 630 | 27 | 50.0 | 1234 | 8 | US-10-505-928-654 | Sequence 654, App |
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| 632 | 27 | 50.0 | 1238 | 11 | US-11-078-735-21 | Sequence 21, Appl |
| 633 | 27 | 50.0 | 1238 | 11 | US-11-050-346-66 | Sequence 66, Appl |
| 634 | 27 | 50.0 | 1238 | 11 | US-11-103-077-21 | Sequence 21, Appl |
| 635 | 27 | 50.0 | 1238 | 11 | US-11-058-066-21 | Sequence 21, Appl |
| 636 | 27 | 50.0 | 1256 | 8 | US-10-511-937-2975 | Sequence 2975, Ap |
| 637 | 27 | 50.0 | 1257 | 11 | US-11-022-478-6 | Sequence 6, Appli |
| 638 | 27 | 50.0 | 1379 | 11 | US-11-114-962-4 | Sequence 4, Appli |
| 639 | 27 | 50.0 | 1484 | 9 | US-10-517-939-74 | Sequence 74, Appl |
| 640 | 27 | 50.0 | 2214 | 11 | US-11-080-991-94 | Sequence 94, Appl |
| 641 | 27 | 50.0 | 3635 | 11 | US-11-019-711-47 | Sequence 47, Appl |
| 642 | 27 | 50.0 | 3690 | 9 | US-10-995-561-1016 | Sequence 1016, Ap |
| 643 | 27 | 50.0 | 3714 | 9 | US-10-995-561-1015 | Sequence 1015, Ap |
| 644 | 27 | 50.0 | 3717 | 9 | US-10-821-234-1076 | Sequence 1076, Ap |
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| 649 | 26 | 48.1 | 16 | 9 | US-10-649-229-18 | Sequence 18, Appl |
| 650 | 26 | 48.1 | 19 | 9 | US-10-503-575-199 | Sequence 199, App |
| 651 | 26 | 48.1 | 28 | 11 | US-11-196-670-60 | Sequence 60, Appl |
| 652 | 26 | 48.1 | 44 | 9 | US-10-957-887B-45 | Sequence 45, Appl |
| 653 | 26 | 48.1 | 63 | 11 | US-11-096-568A-3968 | Sequence 3968, Ap |
| 654 | 26 | 48.1 | 64 | 11 | US-11-096-568A-3967 | Sequence 3967, Ap |
| 655 | 26 | 48.1 | 80 | 9 | US-10-467-657-1620 | Sequence 1620, Ap |
| 656 | 26 | 48.1 | 82 | 9 | US-10-467-657-1488 | Sequence 1488, Ap |
| 657 | 26 | 48.1 | 82 | 9 | US-10-455-772-940 | Sequence 940, App |
| 658 | 26 | 48.1 | 82 | 11 | US-11-050-857-276 | Sequence 276, App |
| 659 | 26 | 48.1 | 82 | 11 | US-11-051-720-1393 | Sequence 1393, Ap |
| 660 | 26 | 48.1 | 82 | 11 | US-11-188-298-7388 | Sequence 7388, Ap |
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| 664 | 26 | 48.1 | 90 | 11 | US-11-051-720-1415 | Sequence 1415, Ap |
| 665 | 26 | 48.1 | 90 | 11 | US-11-079-463-8927 | Sequence 8927, Ap |
| 666 | 26 | 48.1 | 91 | 11 | US-11-188-298-1942 | Sequence 1942, Ap |
| 667 | 26 | 48.1 | 93 | 11 | US-11-155-288-15 | Sequence 15, Appl |
| 668 | 26 | 48.1 | 93 | 11 | US-11-051-720-1416 | Sequence 1416, Ap |
| 669 | 26 | 48.1 | 93 | 11 | US-11-226-869-503 | Sequence 503, App |
| 670 | 26 | 48.1 | 95 | 11 | US-11-079-463-9191 | Sequence 9191, Ap |
| 671 | 26 | 48.1 | 98 | 11 | US-11-096-568A-32426 | Sequence 32426, A |
| 672 | 26 | 48.1 | 106 | 11 | US-11-172-740-1328 | Sequence 1328, Ap |
| 673 | 26 | 48.1 | 112 | 11 | US-11-230-180-17 | Sequence 17, Appl |
| 674 | 26 | 48.1 | 113 | 11 | US-11-096-568A-25935 | Sequence 25935, A |
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| 676 | 26 | 48.1 | 114 | 11 | US-11-096-568A-3966 | Sequence 3966, Ap |
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| 679 | 26 | 48.1 | 117 | 11 | US-11-096-568A-4847 | Sequence 4847, Ap |
| 680 | 26 | 48.1 | 125 | 11 | US-11-172-740-1563 | Sequence 1563, Ap |
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| 683 | 26 | 48.1 | 128 | 9 | US-10-219-062-72 | Sequence 72, Appl |
| 684 | 26 | 48.1 | 128 | 9 | US-10-219-064-72 | Sequence 72, Appl |
| 685 | 26 | 48.1 | 128 | 9 | US-10-233-134-72 | Sequence 72, Appl |
| 686 | 26 | 48.1 | 128 | 11 | US-11-174-150-36 | Sequence 36, Appl |
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| 688 | 26 | 48.1 | 132 | 11 | US-11-087-099-6566 | Sequence 6566, Ap |
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| 695 | 26 | 48.1 | 138 | 11 | US-11-045-004-1152 | Sequence 1152, Ap |
| 696 | 26 | 48.1 | 139 | 11 | US-11-050-857-273 | Sequence 273, App |
| 697 | 26 | 48.1 | 139 | 11 | US-11-051-720-1390 | Sequence 1390, Ap |
| 698 | 26 | 48.1 | 141 | 9 | US-10-218-784-16 | Sequence 16, Appl |
| 699 | 26 | 48.1 | 141 | 9 | US-10-219-061-16 | Sequence 16, Appl |
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| 702 | 26 | 48.1 | 141 | 9 | US-10-233-134-16 | Sequence 16, Appl |
| 703 | 26 | 48.1 | 141 | 11 | US-11-050-857-969 | Sequence 969, App |
| 704 | 26 | 48.1 | 141 | 11 | US-11-051-720-1708 | Sequence 1708, Ap |
| 705 | 26 | 48.1 | 141 | 11 | US-11-096-568A-32425 | Sequence 32425, A |
| 706 | 26 | 48.1 | 141 | 11 | US-11-043-806-486 | Sequence 486, App |
| 707 | 26 | 48.1 | 141 | 11 | US-11-250-759-215 | Sequence 215, App |
| 708 | 26 | 48.1 | 144 | 11 | US-11-203-526-30 | Sequence 30, Appl |
| 709 | 26 | 48.1 | 148 | 11 | US-11-188-298-16214 | Sequence 16214, A |
| 710 | 26 | 48.1 | 149 | 9 | US-10-530-253-16 | Sequence 16, Appl |
| 711 | 26 | 48.1 | 153 | 11 | US-11-079-463-5847 | Sequence 5847, Ap |
| 712 | 26 | 48.1 | 154 | 9 | US-10-506-454-1675 | Sequence 1675, Ap |
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| 715 | 26 | 48.1 | 156 | 11 | US-11-264-096-622 | Sequence 622, App |
| 716 | 26 | 48.1 | 157 | 11 | US-11-050-857-972 | Sequence 972, App |
| 717 | 26 | 48.1 | 157 | 11 | US-11-087-099-4241 | Sequence 4241, Ap |
| 718 | 26 | 48.1 | 157 | 11 | US-11-043-806-489 | Sequence 489, App |
| 719 | 26 | 48.1 | 160 | 11 | US-11-188-298-7713 | Sequence 7713, Ap |
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| 721 | 26 | 48.1 | 164 | 11 | US-11-096-568A-3510 | Sequence 3510, Ap |
| 722 | 26 | 48.1 | 165 | 11 | US-11-050-857-970 | Sequence 970, App |
| 723 | 26 | 48.1 | 165 | 11 | US-11-051-720-1709 | Sequence 1709, Ap |
| 724 | 26 | 48.1 | 165 | 11 | US-11-043-806-487 | Sequence 487, App |
| 725 | 26 | 48.1 | 170 | 11 | US-11-087-099-3672 | Sequence 3672, Ap |
| 726 | 26 | 48.1 | 176 | 11 | US-11-087-099-4459 | Sequence 4459, Ap |
| 727 | 26 | 48.1 | 178 | 11 | US-11-087-099-7382 | Sequence 7382, Ap |
| 728 | 26 | 48.1 | 182 | 11 | US-11-188-298-1793 | Sequence 1793, Ap |
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| 732 | 26 | 48.1 | 189 | 11 | US-11-079-463-7884 | Sequence 7884, Ap |
| 733 | 26 | 48.1 | 192 | 11 | US-11-087-099-7978 | Sequence 7978, Ap |
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| 744 | 26 | 48.1 | 218 | 11 | US-11-072-512-3815 | Sequence 3815, Ap |
| 745 | 26 | 48.1 | 220 | 11 | US-11-222-451-10 | Sequence 10, Appl |
| 746 | 26 | 48.1 | 222 | 11 | US-11-096-568A-2809 | Sequence 2809, Ap |
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| 750 | 26 | 48.1 | 232 | 11 | US-11-096-568A-21278 | Sequence 21278, A |
| 751 | 26 | 48.1 | 233 | 11 | US-11-024-959-429 | Sequence 429, App |
| 752 | 26 | 48.1 | 233 | 11 | US-11-098-686-11302 | Sequence 11302, A |
| 753 | 26 | 48.1 | 233 | 11 | US-11-087-099-4879 | Sequence 4879, Ap |
| 754 | 26 | 48.1 | 233 | 11 | US-11-087-099-11331 | Sequence 11331, A |
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| 757 | 26 | 48.1 | 240 | 11 | US-11-096-568A-23533 | Sequence 23533, A |
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| 761 | 26 | 48.1 | 256 | 11 | US-11-096-568A-23905 | Sequence 23905, A |
| 762 | 26 | 48.1 | 259 | 9 | US-10-763-712A-116 | Sequence 116, App |
| 763 | 26 | 48.1 | 260 | 11 | US-11-090-908-7 | Sequence 7, Appli |
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| 765 | 26 | 48.1 | 264 | 11 | US-11-096-568A-4781 | Sequence 4781, Ap |
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| 767 | 26 | 48.1 | 265 | 11 | US-11-096-568A-4780 | Sequence 4780, Ap |
| 768 | 26 | 48.1 | 266 | 11 | US-11-241-056-13 | Sequence 13, Appl |
| 769 | 26 | 48.1 | 267 | 11 | US-11-096-568A-4779 | Sequence 4779, Ap |
| 770 | 26 | 48.1 | 267 | 11 | US-11-096-568A-23532 | Sequence 23532, A |
| 771 | 26 | 48.1 | 269 | 11 | US-11-079-463-7674 | Sequence 7674, Ap |
| 772 | 26 | 48.1 | 273 | 11 | US-11-096-568A-15277 | Sequence 15277, A |
| 773 | 26 | 48.1 | 274 | 11 | US-11-096-568A-15276 | Sequence 15276, A |
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| 775 | 26 | 48.1 | 275 | 11 | US-11-241-056-8 | Sequence 8, Appli |
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| 777 | 26 | 48.1 | 275 | 11 | US-11-087-099-3118 | Sequence 3118, Ap |
| 778 | 26 | 48.1 | 278 | 11 | US-11-096-568A-2808 | Sequence 2808, Ap |
| 779 | 26 | 48.1 | 278 | 11 | US-11-096-568A-5239 | Sequence 5239, Ap |
| 780 | 26 | 48.1 | 283 | 11 | US-11-255-794-9 | Sequence 9, Appli |
| 781 | 26 | 48.1 | 283 | 11 | US-11-255-794-24 | Sequence 24, Appl |
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| 784 | 26 | 48.1 | 289 | 11 | US-11-098-686-10615 | Sequence 10615, A |
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| 786 | 26 | 48.1 | 292 | 11 | US-11-188-298-17356 | Sequence 17356, A |
| 787 | 26 | 48.1 | 293 | 11 | US-11-098-686-11410 | Sequence 11410, A |
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| 790 | 26 | 48.1 | 298 | 11 | US-11-188-298-20248 | Sequence 20248, A |
| 791 | 26 | 48.1 | 302 | 11 | US-11-087-099-674 | Sequence 674, App |
| 792 | 26 | 48.1 | 304 | 11 | US-11-079-463-9120 | Sequence 9120, Ap |
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| 794 | 26 | 48.1 | 306 | 11 | US-11-096-568A-5677 | Sequence 5677, Ap |
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| 796 | 26 | 48.1 | 310 | 11 | US-11-079-463-7137 | Sequence 7137, Ap |
| 797 | 26 | 48.1 | 311 | 9 | US-10-455-772-556 | Sequence 556, App |
| 798 | 26 | 48.1 | 311 | 9 | US-10-455-772-570 | Sequence 570, App |
| 799 | 26 | 48.1 | 313 | 9 | US-10-455-772-554 | Sequence 554, App |
| 800 | 26 | 48.1 | 313 | 9 | US-10-455-772-562 | Sequence 562, App |
| 801 | 26 | 48.1 | 313 | 9 | US-10-455-772-564 | Sequence 564, App |
| 802 | 26 | 48.1 | 313 | 9 | US-10-455-772-572 | Sequence 572, App |
| 803 | 26 | 48.1 | 313 | 9 | US-10-455-772-574 | Sequence 574, App |
| 804 | 26 | 48.1 | 313 | 9 | US-10-455-772-576 | Sequence 576, App |
| 805 | 26 | 48.1 | 313 | 9 | US-10-455-772-578 | Sequence 578, App |
| 806 | 26 | 48.1 | 313 | 11 | US-11-095-093-2 | Sequence 2, Appli |
| 807 | 26 | 48.1 | 314 | 11 | US-11-096-568A-19764 | Sequence 19764, A |
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| 814 | 26 | 48.1 | 325 | 11 | US-11-087-099-7465 | Sequence 7465, Ap |
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| 816 | 26 | 48.1 | 325 | 11 | US-11-188-298-2593 | Sequence 2593, Ap |
| 817 | 26 | 48.1 | 325 | 11 | US-11-188-298-17924 | Sequence 17924, A |
| 818 | 26 | 48.1 | 325 | 11 | US-11-045-004-144 | Sequence 144, App |
| 819 | 26 | 48.1 | 327 | 11 | US-11-087-099-3026 | Sequence 3026, Ap |
| 820 | 26 | 48.1 | 328 | 11 | US-11-096-568A-21923 | Sequence 21923, A |
| 821 | 26 | 48.1 | 329 | 11 | US-11-188-298-22270 | Sequence 22270, A |
| 822 | 26 | 48.1 | 332 | 11 | US-11-264-096-652 | Sequence 652, App |
| 823 | 26 | 48.1 | 333 | 11 | US-11-087-099-7731 | Sequence 7731, Ap |
| 824 | 26 | 48.1 | 334 | 11 | US-11-087-099-2128 | Sequence 2128, Ap |

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| 837 | 26 | 48.1 | 351 | 7 | US-09-978-360A-482 | Sequence 482, App |
| 838 | 26 | 48.1 | 351 | 11 | US-11-096-568A-5676 | Sequence 5676, Ap |
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| 842 | 26 | 48.1 | 362 | 9 | US-10-784-004-365 | Sequence 365, App |
| 843 | 26 | 48.1 | 363 | 11 | US-11-087-099-4084 | Sequence 4084, Ap |
| 844 | 26 | 48.1 | 363 | 11 | US-11-188-298-14800 | Sequence 14800, A |
| 845 | 26 | 48.1 | 364 | 8 | US-10-505-928-253 | Sequence 253, App |
| 846 | 26 | 48.1 | 364 | 9 | US-10-784-004-686 | Sequence 686, App |
| 847 | 26 | 48.1 | 364 | 11 | US-11-096-568A-7480 | Sequence 7480, Ap |
| 848 | 26 | 48.1 | 364 | 11 | US-11-079-463-9437 | Sequence 9437, Ap |
| 849 | 26 | 48.1 | 365 | 9 | US-10-875-716-9 | Sequence 9, Appli |
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| 852 | 26 | 48.1 | 366 | 11 | US-11-188-298-11244 | Sequence 11244, A |
| 853 | 26 | 48.1 | 368 | 11 | US-11-188-298-10076 | Sequence 10076, A |
| 854 | 26 | 48.1 | 369 | 11 | US-11-087-099-2978 | Sequence 2978, Ap |
| 855 | 26 | 48.1 | 370 | 11 | US-11-087-099-2569 | Sequence 2569, Ap |
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| 859 | 26 | 48.1 | 384 | 11 | US-11-096-568A-13063 | Sequence 13063, A |
| 860 | 26 | 48.1 | 386 | 11 | US-11-098-686-10767 | Sequence 10767, A |
| 861 | 26 | 48.1 | 387 | 11 | US-11-096-568A-19075 | Sequence 19075, A |
| 862 | 26 | 48.1 | 390 | 7 | US-09-978-360A-487 | Sequence 487, App |
| 863 | 26 | 48.1 | 390 | 11 | US-11-087-099-10668 | Sequence 10668, A |
| 864 | 26 | 48.1 | 391 | 11 | US-11-096-568A-21922 | Sequence 21922, A |
| 865 | 26 | 48.1 | 392 | 11 | US-11-096-568A-13062 | Sequence 13062, A |
| 866 | 26 | 48.1 | 392 | 11 | US-11-079-463-6133 | Sequence 6133, Ap |
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| 868 | 26 | 48.1 | 394 | 11 | US-11-264-096-1498 | Sequence 1498, Ap |
| 869 | 26 | 48.1 | 395 | 11 | US-11-188-298-3827 | Sequence 3827, Ap |
| 870 | 26 | 48.1 | 397 | 11 | US-11-096-568A-17972 | Sequence 17972, A |
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| 872 | 26 | 48.1 | 405 | 11 | US-11-096-568A-6005 | Sequence 6005, Ap |
| 873 | 26 | 48.1 | 405 | 11 | US-11-188-298-4502 | Sequence 4502, Ap |
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| 876 | 26 | 48.1 | 410 | 11 | US-11-226-869-495 | Sequence 495, App |
| 877 | 26 | 48.1 | 410 | 11 | US-11-079-463-8158 | Sequence 8158, Ap |
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| 879 | 26 | 48.1 | 415 | 11 | US-11-096-568A-19134 | Sequence 19134, A |
| 880 | 26 | 48.1 | 419 | 11 | US-11-045-004-727 | Sequence 727, App |
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| 882 | 26 | 48.1 | 425 | 11 | US-11-096-568A-6004 | Sequence 6004, Ap |
| 883 | 26 | 48.1 | 426 | 11 | US-11-096-568A-10197 | Sequence 10197, A |
| 884 | 26 | 48.1 | 427 | 11 | US-11-096-568A-6186 | Sequence 6186, Ap |
| 885 | 26 | 48.1 | 432 | 11 | US-11-096-568A-6185 | Sequence 6185, Ap |
| 886 | 26 | 48.1 | 433 | 9 | US-10-895-861-40 | Sequence 40, Appl |
| 887 | 26 | 48.1 | 433 | 9 | US-10-895-861-43 | Sequence 43, Appl |
| 888 | 26 | 48.1 | 433 | 9 | US-10-895-861-46 | Sequence 46, Appl |
| 889 | 26 | 48.1 | 433 | 9 | US-10-895-861-47 | Sequence 47, Appl |
| 890 | 26 | 48.1 | 433 | 9 | US-10-895-861-54 | Sequence 54, Appl |
| 891 | 26 | 48.1 | 433 | 9 | US-10-895-861-58 | Sequence 58, Appl |
| 892 | 26 | 48.1 | 433 | 9 | US-10-895-861-59 | Sequence 59, Appl |
| 893 | 26 | 48.1 | 433 | 11 | US-11-096-568A-6003 | Sequence 6003, Ap |
| 894 | 26 | 48.1 | 435 | 9 | US-10-895-861-55 | Sequence 55, Appl |
| 895 | 26 | 48.1 | 435 | 9 | US-10-895-861-60 | Sequence 60, Appl |
| 896 | 26 | 48.1 | 436 | 9 | US-10-131-826A-404 | Sequence 404, App |
| 897 | 26 | 48.1 | 436 | 9 | US-10-973-115B-404 | Sequence 404, App |
| 898 | 26 | 48.1 | 436 | 9 | US-10-216-161A-442 | Sequence 442, App |
| 899 | 26 | 48.1 | 436 | 9 | US-10-137-873A-404 | Sequence 404, App |
| 900 | 26 | 48.1 | 436 | 9 | US-10-152-370-404 | Sequence 404, App |
| 901 | 26 | 48.1 | 436 | 11 | US-11-096-568A-5675 | Sequence 5675, Ap |
| 902 | 26 | 48.1 | 436 | 11 | US-11-096-568A-17971 | Sequence 17971, A |
| 903 | 26 | 48.1 | 436 | 11 | US-11-290-153-404 | Sequence 404, App |
| 904 | 26 | 48.1 | 439 | 9 | US-10-895-861-38 | Sequence 38, Appl |
| 905 | 26 | 48.1 | 439 | 9 | US-10-544-501-2 | Sequence 2, Appli |
| 906 | 26 | 48.1 | 445 | 9 | US-10-454-437-312 | Sequence 312, App |
| 907 | 26 | 48.1 | 445 | 11 | US-11-082-389-376 | Sequence 376, App |
| 908 | 26 | 48.1 | 446 | 11 | US-11-079-463-5366 | Sequence 5366, Ap |
| 909 | 26 | 48.1 | 447 | 11 | US-11-264-096-1201 | Sequence 1201, Ap |
| 910 | 26 | 48.1 | 449 | 11 | US-11-096-568A-19133 | Sequence 19133, A |
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| 913 | 26 | 48.1 | 452 | 11 | US-11-096-568A-17970 | Sequence 17970, A |
| 914 | 26 | 48.1 | 452 | 11 | US-11-188-298-8926 | Sequence 8926, Ap |
| 915 | 26 | 48.1 | 455 | 11 | US-11-072-512-2644 | Sequence 2644, Ap |
| 916 | 26 | 48.1 | 457 | 9 | US-10-951-236-1 | Sequence 1, Appli |
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| 918 | 26 | 48.1 | 461 | 9 | US-10-523-328-5 | Sequence 5, Appli |
| 919 | 26 | 48.1 | 461 | 10 | US-11-183-218-32 | Sequence 32, Appl |
| 920 | 26 | 48.1 | 461 | 11 | US-11-132-285-6 | Sequence 6, Appli |
| 921 | 26 | 48.1 | 461 | 11 | US-11-182-946-4 | Sequence 4, Appli |
| 922 | 26 | 48.1 | 461 | 11 | US-11-183-205-32 | Sequence 32, Appl |
| 923 | 26 | 48.1 | 461 | 11 | US-11-260-192-2 | Sequence 2, Appli |
| 924 | 26 | 48.1 | 462 | 11 | US-11-045-004-1111 | Sequence 1111, Ap |
| 925 | 26 | 48.1 | 466 | 11 | US-11-188-298-9077 | Sequence 9077, Ap |
| 926 | 26 | 48.1 | 477 | 9 | US-10-540-091-2 | Sequence 2, Appli |
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| 928 | 26 | 48.1 | 483 | 9 | US-10-467-657-2894 | Sequence 2894, Ap |
| 929 | 26 | 48.1 | 491 | 11 | US-11-031-206-72 | Sequence 72, Appl |
| 930 | 26 | 48.1 | 492 | 11 | US-11-045-004-2160 | Sequence 2160, Ap |
| 931 | 26 | 48.1 | 493 | 11 | US-11-098-686-10233 | Sequence 10233, A |
| 932 | 26 | 48.1 | 493 | 11 | US-11-096-568A-10195 | Sequence 10195, A |
| 933 | 26 | 48.1 | 497 | 11 | US-11-072-512-3603 | Sequence 3603, Ap |
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| 938 | 26 | 48.1 | 505 | 11 | US-11-087-099-7307 | Sequence 7307, Ap |
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| 943 | 26 | 48.1 | 509 | 11 | US-11-188-298-20642 | Sequence 20642, A |
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| 953 | 26 | 48.1 | 545 | 9 | US-10-194-487-328 | Sequence 328, App |
| 954 | 26 | 48.1 | 545 | 9 | US-10-195-883-328 | Sequence 328, App |
| 955 | 26 | 48.1 | 545 | 9 | US-10-195-888-328 | Sequence 328, App |
| 956 | 26 | 48.1 | 545 | 9 | US-10-195-889-328 | Sequence 328, App |
| 957 | 26 | 48.1 | 545 | 11 | US-11-102-240-110 | Sequence 110, App |
| 958 | 26 | 48.1 | 545 | 11 | US-11-103-195-110 | Sequence 110, App |
| 959 | 26 | 48.1 | 547 | 11 | US-11-072-512-3096 | Sequence 3096, Ap |
| 960 | 26 | 48.1 | 548 | 11 | US-11-119-769-3 | Sequence 3, Appli |
| 961 | 26 | 48.1 | 550 | 11 | US-11-185-342-14 | Sequence 14, Appl |
| 962 | 26 | 48.1 | 550 | 11 | US-11-098-686-10696 | Sequence 10696, A |
| 963 | 26 | 48.1 | 553 | 9 | US-10-507-755-1 | Sequence 1, Appli |
| 964 | 26 | 48.1 | 554 | 9 | US-10-763-712A-33 | Sequence 33, Appl |
| 965 | 26 | 48.1 | 563 | 11 | US-11-087-099-5609 | Sequence 5609, Ap |
| 966 | 26 | 48.1 | 564 | 11 | US-11-133-360-11 | Sequence 11, Appl |
| 967 | 26 | 48.1 | 564 | 11 | US-11-133-346-11 | Sequence 11, Appl |
| 968 | 26 | 48.1 | 567 | 11 | US-11-096-568A-33973 | Sequence 33973, A |
| 969 | 26 | 48.1 | 570 | 9 | US-10-821-234-1601 | Sequence 1601, Ap |
| 970 | 26 | 48.1 | 571 | 11 | US-11-188-298-6070 | Sequence 6070, Ap |

| | | | | | | |
|---|---|---|---|---|---|---|
| 971 | 26 | 48.1 | 571 | 11 | US-11-188-298-20583 | Sequence 20583, A |
| 972 | 26 | 48.1 | 579 | 9 | US-10-763-712A-94 | Sequence 94, Appl |
| 973 | 26 | 48.1 | 591 | 9 | US-10-784-004-456 | Sequence 456, App |
| 974 | 26 | 48.1 | 593 | 11 | US-11-087-099-6083 | Sequence 6083, Ap |
| 975 | 26 | 48.1 | 594 | 11 | US-11-177-894-8 | Sequence 8, Appli |
| 976 | 26 | 48.1 | 595 | 11 | US-11-072-512-2714 | Sequence 2714, Ap |
| 977 | 26 | 48.1 | 596 | 9 | US-10-784-004-773 | Sequence 773, App |
| 978 | 26 | 48.1 | 596 | 11 | US-11-063-343-28 | Sequence 28, Appl |
| 979 | 26 | 48.1 | 596 | 11 | US-11-203-526-28 | Sequence 28, Appl |
| 980 | 26 | 48.1 | 599 | 11 | US-11-096-568A-33972 | Sequence 33972, A |
| 981 | 26 | 48.1 | 604 | 11 | US-11-216-267-8 | Sequence 8, Appli |
| 982 | 26 | 48.1 | 604 | 11 | US-11-232-382-8 | Sequence 8, Appli |
| 983 | 26 | 48.1 | 606 | 9 | US-10-763-712A-86 | Sequence 86, Appl |
| 984 | 26 | 48.1 | 610 | 11 | US-11-096-568A-26675 | Sequence 26675, A |
| 985 | 26 | 48.1 | 612 | 9 | US-10-821-234-1101 | Sequence 1101, Ap |
| 986 | 26 | 48.1 | 614 | 11 | US-11-087-099-3590 | Sequence 3590, Ap |
| 987 | 26 | 48.1 | 614 | 11 | US-11-087-099-5917 | Sequence 5917, Ap |
| 988 | 26 | 48.1 | 614 | 11 | US-11-087-099-7922 | Sequence 7922, Ap |
| 989 | 26 | 48.1 | 614 | 11 | US-11-087-099-12458 | Sequence 12458, A |
| 990 | 26 | 48.1 | 616 | 11 | US-11-087-099-5968 | Sequence 5968, Ap |
| 991 | 26 | 48.1 | 616 | 11 | US-11-087-099-8486 | Sequence 8486, Ap |
| 992 | 26 | 48.1 | 617 | 11 | US-11-096-568A-33971 | Sequence 33971, A |
| 993 | 26 | 48.1 | 620 | 9 | US-10-793-626-606 | Sequence 606, App |
| 994 | 26 | 48.1 | 621 | 9 | US-10-793-626-2614 | Sequence 2614, Ap |
| 995 | 26 | 48.1 | 621 | 11 | US-11-096-568A-26674 | Sequence 26674, A |
| 996 | 26 | 48.1 | 637 | 9 | US-10-467-657-1594 | Sequence 1594, Ap |
| 997 | 26 | 48.1 | 642 | 11 | US-11-177-894-9 | Sequence 9, Appli |
| 998 | 26 | 48.1 | 643 | 11 | US-11-054-281-113 | Sequence 113, App |
| 999 | 26 | 48.1 | 644 | 11 | US-11-063-343-21 | Sequence 21, Appl |
| 1000 | 26 | 48.1 | 648 | 11 | US-11-188-298-6475 | Sequence 6475, Ap |

ALIGNMENTS

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RESULT 1
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-13

  Query Match             100.0%;  Score 54;  DB 9;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 0.0031;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db         90 QQYNKPLCD 98


RESULT 2
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
;  APPLICANT: HealthBanks Biotech CO. LTD.
;  TITLE OF INVENTION: Fusion protein for inhibiting cervcal cancer
;  FILE REFERENCE: P7819/0613
;  CURRENT APPLICATION NUMBER: US/11/206,138
;  CURRENT FILING DATE:  2005-08-18
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-11-206-138-3

  Query Match             100.0%;  Score 54;  DB 11;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.0032;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db         97 QQYNKPLCD 105


RESULT 3
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-1

  Query Match             100.0%;  Score 54;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.005;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db         90 QQYNKPLCD 98


RESULT 4
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
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;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-3

  Query Match             100.0%;  Score 54;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.005;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db         90 QQYNKPLCD 98


RESULT 5
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-5

  Query Match             100.0%;  Score 54;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.005;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db         90 QQYNKPLCD 98


RESULT 6
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-7

  Query Match             100.0%;  Score 54;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.005;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db        187 QQYNKPLCD 195


RESULT 7
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-9

  Query Match             100.0%;  Score 54;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.005;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db        187 QQYNKPLCD 195


RESULT 8
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-11

  Query Match             100.0%;  Score 54;  DB 9;  Length 248;
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  Best Local Similarity   100.0%;  Pred. No. 0.005;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db        187 QQYNKPLCD 195


RESULT 9
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
;  APPLICANT: PANG, XIAOWU
;  TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
;  TITLE OF INVENTION:  RECOMBINANT REPLICON
;  FILE REFERENCE: 116620-003
;  CURRENT APPLICATION NUMBER: US/11/192,923A
;  CURRENT FILING DATE:  2005-07-29
;  PRIOR APPLICATION NUMBER: CN 03115272.4
;  PRIOR FILING DATE: 2003-01-30
;  PRIOR APPLICATION NUMBER: CN 03115273.2
;  PRIOR FILING DATE: 2003-01-30
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
;   LENGTH: 256
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-11-192-923A-2

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  Best Local Similarity   100.0%;  Pred. No. 0.0052;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |||||||||
Db        195 QQYNKPLCD 203


RESULT 10
US-10-530-061-790
; Sequence 790, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 790
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-790

  Query Match             90.7%;  Score 49;  DB 9;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.002;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 QYNKPLCD 9
              ||||||||
Db          1 QYNKPLCD 8


RESULT 11
US-10-530-061-782
; Sequence 782, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 782
;   LENGTH: 11
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-782

  Query Match             90.7%;  Score 49;  DB 9;  Length 11;
  Best Local Similarity   100.0%;  Pred. No. 0.0022;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 QYNKPLCD 9
              ||||||||
Db          1 QYNKPLCD 8


RESULT 12
US-11-103-957-3
; Sequence 3, Application US/11103957
; Publication No. US20050281847A1
; GENERAL INFORMATION:
;  APPLICANT: Berthet, Francois-Xavier Jacques
;  APPLICANT:  Lobet, Yves
;  APPLICANT:  Poolman, Jan
;  APPLICANT:  Verlant, Vincent Georges Christian Louis
;  TITLE OF INVENTION: Vaccine Composition
;  FILE REFERENCE: B45261
;  CURRENT APPLICATION NUMBER: US/11/103,957
;  CURRENT FILING DATE:  2005-04-12
;  PRIOR APPLICATION NUMBER: US/10/467,534
;  PRIOR FILING DATE: 2004-02-03
;  PRIOR APPLICATION NUMBER: PCT/EP02/01356
;  PRIOR FILING DATE: 2002-02-08
;  PRIOR APPLICATION NUMBER: GB 0103169.9
;  PRIOR FILING DATE: 2001-02-08
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
;   LENGTH: 601
;   TYPE: PRT
;   ORGANISM: Chlamydia trachomatis
US-11-103-957-3

  Query Match             66.7%;  Score 36;  DB 11;  Length 601;
  Best Local Similarity   71.4%;  Pred. No. 35;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 QYNKPLC 8
              ||:||:|
Db        476 QYSKPIC 482
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RESULT 13
US-11-018-868-119
; Sequence 119, Application US/11018868
; Publication No. US20060034871A1
; GENERAL INFORMATION:
;  APPLICANT: Chiron Corporation
;  APPLICANT:  Grandi, Guido
;  APPLICANT:  Ratti, Guilio
;  APPLICANT:  Bonci, Alessandro
;  APPLICANT:  Finco, Oretta
;  TITLE OF INVENTION: Immunogenic Compositions for Chlamydia trachomatis
;  FILE REFERENCE: 002441.00099 (PP23152.001)
;  CURRENT APPLICATION NUMBER: US/11/018,868
;  CURRENT FILING DATE:  2004-12-22
;  NUMBER OF SEQ ID NOS: 186
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 119
;   LENGTH: 601
;   TYPE: PRT
;   ORGANISM: Chlamydia trachomatis
US-11-018-868-119

  Query Match             66.7%;  Score 36;  DB 11;  Length 601;
  Best Local Similarity   71.4%;  Pred. No. 35;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 QYNKPLC 8
              ||:||:|
Db        476 QYSKPIC 482


RESULT 14
US-10-770-726-45
; Sequence 45, Application US/10770726
; Publication No. US20050266409A1
; GENERAL INFORMATION:
;  APPLICANT: Wyeth
;  APPLICANT:  Brown, Eugene
;  APPLICANT:  Liu, Wei
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING, PREVENTING, AND TREATING
;  TITLE OF INVENTION:  CANCERS
;  FILE REFERENCE: AM101079 (031896-010000)
;  CURRENT APPLICATION NUMBER: US/10/770,726
;  CURRENT FILING DATE:  2004-02-04
;  NUMBER OF SEQ ID NOS: 48640
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 45
;   LENGTH: 2644
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-770-726-45

  Query Match             64.8%;  Score 35;  DB 9;  Length 2644;
  Best Local Similarity   71.4%;  Pred. No. 2.3e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 QYNKPLC 8
              || ||:|
Db        928 QYKKPIC 934


RESULT 15
US-11-098-686-11336
; Sequence 11336, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
;  APPLICANT: Kapur, Vivek and Gebhart, Connie J.
;  TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
;  TITLE OF INVENTION:  FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
;  FILE REFERENCE: 09531-128001
;  CURRENT APPLICATION NUMBER: US/11/098,686
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31318
;  PRIOR FILING DATE: 2003-10-01
;  PRIOR APPLICATION NUMBER: US 60/416,395
;  PRIOR FILING DATE: 2002-10-04
;  NUMBER OF SEQ ID NOS: 11433
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11336
;   LENGTH: 258
;   TYPE: PRT
;   ORGANISM: Lawsonia intracellularis
US-11-098-686-11336

  Query Match             63.0%;  Score 34;  DB 11;  Length 258;
  Best Local Similarity   62.5%;  Pred. No. 38;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLC 8
              | :|:|||
Db         66 QDWNEPLC 73


RESULT 16
US-11-188-298-17504
; Sequence 17504, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 17504
;   LENGTH: 545
;   TYPE: PRT
;   ORGANISM: Photobacterium profundum
US-11-188-298-17504

  Query Match             63.0%;  Score 34;  DB 11;  Length 545;
  Best Local Similarity   71.4%;  Pred. No. 78;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 YNKPLCD 9
              : |||||
Db        371 FEKPLCD 377


RESULT 17
US-11-188-298-1428
; Sequence 1428, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 1428
;   LENGTH: 461
;   TYPE: PRT
;   ORGANISM: Microbulbifer degradans 2-40
US-11-188-298-1428

  Query Match             61.1%;  Score 33;  DB 11;  Length 461;
  Best Local Similarity   55.6%;  Pred. No. 1e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |:  ||||:
```

```
Db         70 QEMGKPLCE 78


RESULT 18
US-11-188-298-12404
; Sequence 12404, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 12404
;   LENGTH: 328
;   TYPE: PRT
;   ORGANISM: Neurospora crassa
US-11-188-298-12404

  Query Match             59.3%;  Score 32;  DB 11;  Length 328;
  Best Local Similarity   62.5%;  Pred. No. 1.2e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLC 8
              : || |||
Db        269 RDYNVPLC 276


RESULT 19
US-11-072-512-3344
; Sequence 3344, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
;  APPLICANT: ISOGAI, TAKAO
;  APPLICANT:  SUGIYAMA, TOMOYASU
;  APPLICANT:  OTSUKI, TETSUJI
;  APPLICANT:  WAKAMATSU, AI
;  APPLICANT:  SATO, HIROYUKI
;  APPLICANT:  ISHII, SHIZUKO
;  APPLICANT:  YAMAMOTO, JUN-ICHI
;  APPLICANT:  ISONO, YUUKO
;  APPLICANT:  HIO, YURI
;  APPLICANT:  OTSUKA, KAORU
;  APPLICANT:  NAGAI, KEIICHI
;  APPLICANT:  IRIE, RYOTARO
;  APPLICANT:  TAMECHIKA, ICHIRO
;  APPLICANT:  SEKI, NAOHIKO
;  APPLICANT:  YOSHIKAWA, TSUTOMU
;  APPLICANT:  OTSUKA, MOTOYUKI
;  APPLICANT:  NAGAHARI, KENJI
;  APPLICANT:  MASUHO, YASUHIKO
;  TITLE OF INVENTION: Novel full length cDNA
;  FILE REFERENCE: 084335-0191
;  CURRENT APPLICATION NUMBER: US/11/072,512
;  CURRENT FILING DATE:  2005-03-07
;  PRIOR APPLICATION NUMBER: US 60/350,978
;  PRIOR FILING DATE: 2002-01-25
;  PRIOR APPLICATION NUMBER: JP 2001-379298
;  PRIOR FILING DATE: 2001-11-05
;  NUMBER OF SEQ ID NOS: 4096
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3344
;   LENGTH: 428
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-072-512-3344

  Query Match             59.3%;  Score 32;  DB 11;  Length 428;
  Best Local Similarity   66.7%;  Pred. No. 1.5e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              |: |||| |
Db         41 QRMNKPLLD 49


RESULT 20
US-11-096-568A-31734
; Sequence 31734, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 31734
;   LENGTH: 502
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(502)
;   OTHER INFORMATION: Ceres Seq. ID no. 13588670
US-11-096-568A-31734

  Query Match             59.3%;  Score 32;  DB 11;  Length 502;
  Best Local Similarity   83.3%;  Pred. No. 1.8e+02;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKP 6
              ||||:|
Db        220 QQYNRP 225


RESULT 21
US-11-096-568A-31733
; Sequence 31733, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 31733
;   LENGTH: 527
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(527)
;   OTHER INFORMATION: Ceres Seq. ID no. 13588669
US-11-096-568A-31733

  Query Match             59.3%;  Score 32;  DB 11;  Length 527;
  Best Local Similarity   83.3%;  Pred. No. 1.8e+02;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKP 6
              ||||:|
Db        245 QQYNRP 250


RESULT 22
US-10-467-657-2436
; Sequence 2436, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
```

```
;  APPLICANT: CHIRON SpA
;  APPLICANT: FONTANA Maria Rita
;  APPLICANT: PIZZA Mariagrazia
;  APPLICANT: MASIGNANI Vega
;  APPLICANT: MONACI Elisabetta
;  TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
;  FILE REFERENCE:
;  CURRENT APPLICATION NUMBER: US/10/467,657
;  CURRENT FILING DATE:  2003-08-11
;  PRIOR APPLICATION NUMBER: GB-0103424.8
;  PRIOR FILING DATE: 2001-02-12
;  NUMBER OF SEQ ID NOS: 9218
;  SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 2436
;    LENGTH: 544
;    TYPE: PRT
;    ORGANISM: Neisseria gonorrhoeae
US-10-467-657-2436

  Query Match             59.3%;  Score 32;  DB 9;  Length 544;
  Best Local Similarity   44.4%;  Pred. No. 1.9e+02;
  Matches    4;  Conservative    4;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              :|| :|:|:
Db        295 EQYVEPMCE 303


RESULT 23
US-11-096-568A-31732
; Sequence 31732, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 31732
;    LENGTH: 557
;    TYPE: PRT
;    ORGANISM: Arabidopsis thaliana
;    FEATURE:
;    NAME/KEY: misc_feature
;    LOCATION: (1)..(557)
;    OTHER INFORMATION: Ceres Seq. ID no. 13588668
US-11-096-568A-31732

  Query Match             59.3%;  Score 32;  DB 11;  Length 557;
  Best Local Similarity   83.3%;  Pred. No. 1.9e+02;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QQYNKP 6
              ||||:|
Db        275 QQYNRP 280


RESULT 24
US-10-055-877-228
; Sequence 228, Application US/10055877
; Publication No. US20050288241A1
; GENERAL INFORMATION:
;  APPLICANT: DeCristofaro, Marc
;  APPLICANT:  Padigaru, Muralidhara
;  APPLICANT:  Miller, Charles
;  APPLICANT:  Tchernev, Velizar
;  APPLICANT:  Zhong, Mei
;  APPLICANT:  Anderson, David
;  APPLICANT:  Ballinger, Robert
;  APPLICANT:  Gerlach, Valerie
;  APPLICANT:  Spytek, Kimberly
;  APPLICANT:  Ratelli, Luca
;  APPLICANT:  Kekuda, Ramesh
;  APPLICANT:  Guo, Xiaojia
;  APPLICANT:  Zerhusen, Bryan
;  APPLICANT:  Andrew, David
;  APPLICANT:  Mezes, Peter
;  APPLICANT:  Patturajan, Meera
;  APPLICANT:  Burgess, Cahterine
;  APPLICANT:  Eisen, Andrew
;  APPLICANT:  Wolenc, Adam
;  APPLICANT:  Baumgartner, Jason
;  APPLICANT:  Shimkets, Richard
;  APPLICANT:  Gusev, Vladimir
;  APPLICANT:  Vernet, Corine
;  APPLICANT:  Taupier Jr., Raymond
;  APPLICANT:  Pena, Carol
;  APPLICANT:  Shenoy, Suresh
;  APPLICANT:  Li, Li
;  APPLICANT:  Casman, Stacie
;  APPLICANT:  Boldog, Ference
;  TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoded Thereby
;  FILE REFERENCE: 21402-251
;  CURRENT APPLICATION NUMBER: US/10/055,877
;  CURRENT FILING DATE:  2002-01-22
;  PRIOR APPLICATION NUMBER: 60/262,892
;  PRIOR FILING DATE: 2001-01-19
;  PRIOR APPLICATION NUMBER: 60/263,598
;  PRIOR FILING DATE: 2001-01-23
;  PRIOR APPLICATION NUMBER: 60/263,799
;  PRIOR FILING DATE: 2001-01-24
;  PRIOR APPLICATION NUMBER: 60/264,117
;  PRIOR FILING DATE: 2001-01-25
;  PRIOR APPLICATION NUMBER: 60/264,139
;  PRIOR FILING DATE: 2001-01-25
;  PRIOR APPLICATION NUMBER: 60/264,478
;  PRIOR FILING DATE: 2001-01-26
;  PRIOR APPLICATION NUMBER: 60/263,351
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: 60/272,870
;  PRIOR FILING DATE: 2001-03-02
;  PRIOR APPLICATION NUMBER: 60/275,990
;  PRIOR FILING DATE: 2001-03-14
;  PRIOR APPLICATION NUMBER: 60/275,927
;  PRIOR FILING DATE: 2001-03-14
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 512
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 228
;    LENGTH: 565
;    TYPE: PRT
;    ORGANISM: Mus musculus
US-10-055-877-228

  Query Match             59.3%;  Score 32;  DB 9;  Length 565;
  Best Local Similarity   50.0%;  Pred. No. 2e+02;
  Matches    4;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLC 8
              |:| :|:|
Db         20 QEYQEPVC 27


RESULT 25
US-10-330-773-392
; Sequence 392, Application US/10330773
; Publication No. US20060040262A1
; GENERAL INFORMATION:
;  APPLICANT: David W. Morris
;  APPLICANT:  Marc Malandro
;  TITLE OF INVENTION: Novel Compositions and Methods in Cancer
;  FILE REFERENCE: 529452001300
;  CURRENT APPLICATION NUMBER: US/10/330,773
;  CURRENT FILING DATE:  2002-12-27
```

```
;  NUMBER OF SEQ ID NOS: 981
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 392
;   LENGTH: 1669
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-330-773-392

  Query Match             59.3%;  Score 32;  DB 9;  Length 1669;
  Best Local Similarity   71.4%;  Pred. No. 5.6e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 YNKPLCD 9
              || |||:
Db         66 YNCPLCE 72


RESULT 26
US-10-330-773-389
; Sequence 389, Application US/10330773
; Publication No. US20060040262A1
; GENERAL INFORMATION:
;  APPLICANT: David W. Morris
;  APPLICANT:  Marc Malandro
;  TITLE OF INVENTION: Novel Compositions and Methods in Cancer
;  FILE REFERENCE: 529452001300
;  CURRENT APPLICATION NUMBER: US/10/330,773
;  CURRENT FILING DATE:  2002-12-27
;  NUMBER OF SEQ ID NOS: 981
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 389
;   LENGTH: 1690
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-10-330-773-389

  Query Match             59.3%;  Score 32;  DB 9;  Length 1690;
  Best Local Similarity   71.4%;  Pred. No. 5.7e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 YNKPLCD 9
              || |||:
Db         97 YNCPLCE 103


RESULT 27
US-11-004-399-2001
; Sequence 2001, Application US/11004399
; Publication No. US20060053516A1
; GENERAL INFORMATION:
;  APPLICANT: Chye, Mee Lee
;  APPLICANT:  Li, Hong Ye
;  APPLICANT:  Ramalingam, Sathiskumar
;  APPLICANT:  Poon, Leo Lit Man
;  APPLICANT:  Peiris, Joseph Sriyal Malik
;  TITLE OF INVENTION: Genetically Modified Plants Comprising SARS-CoV Viral Nucleotide
;  TITLE OF INVENTION:  Sequences and Methods of Use Thereof For Immunization Against SA
;  FILE REFERENCE: 2587/73166/RDK
;  CURRENT APPLICATION NUMBER: US/11/004,399
;  CURRENT FILING DATE:  2004-12-03
;  PRIOR APPLICATION NUMBER: US 60/527,637
;  PRIOR FILING DATE: 2003-12-03
;  NUMBER OF SEQ ID NOS: 4043
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2001
;   LENGTH: 23
;   TYPE: PRT
;   ORGANISM: SARS-CoV Virus
US-11-004-399-2001

  Query Match             57.4%;  Score 31;  DB 11;  Length 23;
  Best Local Similarity   71.4%;  Pred. No. 14;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 QYNKPLC 8
              ||: |||
Db         13 QYHLPLC 19


RESULT 28
US-11-079-463-6701
; Sequence 6701, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRAC
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PATH00-03DIV2
;  CURRENT APPLICATION NUMBER: US/11/079,463
;  CURRENT FILING DATE:  2005-03-14
;  PRIOR APPLICATION NUMBER: US 60/128,705
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/540,209
;  PRIOR FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 6701
;   LENGTH: 141
;   TYPE: PRT
;   ORGANISM: B.fragilis
US-11-079-463-6701

  Query Match             57.4%;  Score 31;  DB 11;  Length 141;
  Best Local Similarity   66.7%;  Pred. No. 80;
  Matches    4;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 NKPLCD 9
              |:|:||
Db        102 NEPICD 107


RESULT 29
US-11-096-568A-5961
; Sequence 5961, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides E
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 5961
;   LENGTH: 150
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(150)
;   OTHER INFORMATION: Ceres Seq. ID no. 14312792
US-11-096-568A-5961

  Query Match             57.4%;  Score 31;  DB 11;  Length 150;
  Best Local Similarity   62.5%;  Pred. No. 85;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLC 8
              : ||| ||
Db        137 EMYNKNLC 144


RESULT 30
US-10-370-959-126
; Sequence 126, Application US/10370959
; Publication No. US20060088907A1
; GENERAL INFORMATION:
```

; APPLICANT: Millennium Pharmaceuticals, Inc
; APPLICANT: Meyers, Rachel E.
; APPLICANT: Williamson, Mark W.
; APPLICANT: Kapeller-Libermann, Rosana
; APPLICANT: MacBeth, Kyle J.
; APPLICANT: Hunter, John J.
; APPLICANT: Rudolph-Owen, Laura A.
; APPLICANT: Bandaru, Rajasekhar
; APPLICANT: Tsai, Fong-Ying
; TITLE OF INVENTION: NOVEL 13237, 18480, 2245, 16228, 7677,
; TITLE OF INVENTION: 26320, 46619, 33166, 16836, 46867, 21617, 55562, 39228,
; TITLE OF INVENTION: 62088, 46745, 23155, 21657, 42755, 32229, 22325, 46863 AND
; TITLE OF INVENTION: 32252 MOLECULES AND USES THEREFOR
; FILE REFERENCE: MPI03-017OMNIM
; CURRENT APPLICATION NUMBER: US/10/370,959
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 09/910,150
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: US 60/219,028
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: US 10/251,507
; PRIOR FILING DATE: 2002-09-20
; PRIOR APPLICATION NUMBER: US 09/715,479
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: US 60/218,053
; PRIOR FILING DATE: 2000-07-13
; PRIOR APPLICATION NUMBER: US 09/644,929
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: US 60/212,439
; PRIOR FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: US 09/892,870
; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: US 60/214,174
; PRIOR FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: US 09/775,117
; PRIOR FILING DATE: 2001-02-01
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 156
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Consensus amino acid sequence
US-10-370-959-126

Query Match 57.4%; Score 31; DB 8; Length 156;
Best Local Similarity 55.6%; Pred. No. 88;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QQYNKPLCD 9
:|: ||| |
Db 41 KQFGKPLAD 49

RESULT 31
US-11-188-298-21313
; Sequence 21313, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 21313
; LENGTH: 204
; TYPE: PRT
; ORGANISM: Methanosarcina barkeri
US-11-188-298-21313

Query Match 57.4%; Score 31; DB 11; Length 204;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 KPLCD 9
|||||
Db 178 KPLCD 182

RESULT 32
US-11-096-568A-5960
; Sequence 5960, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 5960
; LENGTH: 222
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(222)
; OTHER INFORMATION: Ceres Seq. ID no. 14312791
US-11-096-568A-5960

Query Match 57.4%; Score 31; DB 11; Length 222;
Best Local Similarity 62.5%; Pred. No. 1.2e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QQYNKPLC 8
: ||| ||
Db 209 EMYNKNLC 216

RESULT 33
US-11-096-568A-5959
; Sequence 5959, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 5959
; LENGTH: 227
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(227)
; OTHER INFORMATION: Ceres Seq. ID no. 14312790
US-11-096-568A-5959

Query Match 57.4%; Score 31; DB 11; Length 227;
Best Local Similarity 62.5%; Pred. No. 1.3e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QQYNKPLC 8
: ||| ||
Db 214 EMYNKNLC 221

RESULT 34
US-10-506-454-568
; Sequence 568, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
; APPLICANT: Slesarev, Alexi I
; APPLICANT: Mezhevaya, Katja V
; APPLICANT: Polushin, Nikolai N
; APPLICANT: Shcherbinina, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Malykh, Andrei G
; APPLICANT: Kozyavkin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
; TITLE OF INVENTION: Methanopyrus Kandleri AV19 and Monophyly of Archael Methanogens
; TITLE OF INVENTION: and Methods of Use Thereof
; FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; CURRENT FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 568
; LENGTH: 301
; TYPE: PRT
; ORGANISM: Methanopyrus kandleri
US-10-506-454-568

Query Match 57.4%; Score 31; DB 9; Length 301;
Best Local Similarity 50.0%; Pred. No. 1.7e+02;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QQYNKPLC 8
::|::|||
Db 62 RRYDEPLC 69

RESULT 35
US-11-045-004-2468
; Sequence 2468, Application US/11045004
; Publication No. US20060078901A1
; GENERAL INFORMATION:
; APPLICANT: BUCHRIESER, CARMEN
; APPLICANT: FRANGEUL, LIONEL
; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIOK, CHRISTOPHE
; APPLICANT: FSIHI, HAFIDA
; APPLICANT: DEHOUX, PIERRE
; APPLICANT: DUSSURGET, OLIVIER
; APPLICANT: CHETOUANI, FARID
; APPLICANT: NEDJARI, HAFED
; APPLICANT: GLASER, PHILIPPE
; APPLICANT: KUNST, FRANCK
; APPLICANT: COSSART, PASCALE
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEI, WERNER
; APPLICANT: KREFT, JURGEN
; APPLICANT: KUHN, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
; APPLICANT: CHAKRABORTY, TRINAD
; APPLICANT: DOMANN, EUGEN
; APPLICANT: HAIN, THORSTEN
; APPLICANT: BERCHE, PATRICK
; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIONEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: GOMEZ-LOPEZ, NURIA
; APPLICANT: MADUENIO, ENCARNA
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: HAUF, JORG
; APPLICANT: ROSE, MATTHIAS
; APPLICANT: VOSS, HAMUT
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
; FILE REFERENCE: 05394.0018-02
; CURRENT APPLICATION NUMBER: US/11/045,004
; CURRENT FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 10/637,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: 10/257,023
; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: PCT/FR01/01118
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: FR 00/04,629
; PRIOR FILING DATE: 2000-04-11
; NUMBER OF SEQ ID NOS: 2854
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2468
; LENGTH: 324
; TYPE: PRT
; ORGANISM: Listeria monocytogenes
US-11-045-004-2468

Query Match 57.4%; Score 31; DB 11; Length 324;
Best Local Similarity 83.3%; Pred. No. 1.8e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QQYNKP 6
|:||||
Db 262 QKYNKP 267

RESULT 36
US-10-194-487-182
; Sequence 182, Application US/10194487
; Publication No. US20060074226A1
; GENERAL INFORMATION:
; APPLICANT: Baker,Kevin P.
; APPLICANT: Chen,Jian
; APPLICANT: Desnoyers,Luc
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul J.
; APPLICANT: Gurney,Austin L.
; APPLICANT: Pan,James
; APPLICANT: Smith,Victoria
; APPLICANT: Watanabe,Colin K.
; APPLICANT: Wood,William I.
; APPLICANT: Zhang,Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3430R1C312
; CURRENT APPLICATION NUMBER: US/10/194,487
; CURRENT FILING DATE: 2002-07-12
; PRIOR APPLICATION NUMBER: 10/052586
; PRIOR FILING DATE: 2002-01-15
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059266
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063120
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063121
; PRIOR FILING DATE: 1997-10-24

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;  PRIOR APPLICATION NUMBER: 60/063486
;  PRIOR FILING DATE: 1997-10-21
;  PRIOR APPLICATION NUMBER: 60/063540
;  PRIOR FILING DATE: 1997-10-28
;  PRIOR APPLICATION NUMBER: 60/063541
;  PRIOR FILING DATE: 1997-10-28
;  PRIOR APPLICATION NUMBER: 60/063544
;  PRIOR FILING DATE: 1997-10-28
;  Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 182
;   LENGTH: 336
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-194-487-182

  Query Match             57.4%;  Score 31;  DB 9;  Length 336;
  Best Local Similarity   62.5%;  Pred. No. 1.9e+02;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLC 8
              | |||  |
Db        209 QSYNKSFC 216


RESULT 37
US-10-195-883-182
; Sequence 182, Application US/10195883
; Publication No. US20060073544A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Chen,Jian
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Pan,James
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  APPLICANT:  Zhang,Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3430R1C323
;  CURRENT APPLICATION NUMBER: US/10/195,883
;  CURRENT FILING DATE:  2002-07-15
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 182
;   LENGTH: 336
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-195-883-182

  Query Match             57.4%;  Score 31;  DB 9;  Length 336;
  Best Local Similarity   62.5%;  Pred. No. 1.9e+02;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLC 8
              | |||  |
Db        209 QSYNKSFC 216


RESULT 38
US-10-195-888-182
; Sequence 182, Application US/10195888
; Publication No. US20060073545A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Chen,Jian
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Pan,James
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  APPLICANT:  Zhang,Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3430R1C324
;  CURRENT APPLICATION NUMBER: US/10/195,888
;  CURRENT FILING DATE:  2002-07-15
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 182
;   LENGTH: 336
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-195-888-182

  Query Match             57.4%;  Score 31;  DB 9;  Length 336;
  Best Local Similarity   62.5%;  Pred. No. 1.9e+02;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLC 8
              | |||  |
Db        209 QSYNKSFC 216


RESULT 39
US-10-195-889-182
; Sequence 182, Application US/10195889
; Publication No. US20060074227A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Chen,Jian
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Pan,James
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  APPLICANT:  Zhang,Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3430R1C329
;  CURRENT APPLICATION NUMBER: US/10/195,889
;  CURRENT FILING DATE:  2002-07-15
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 182
;   LENGTH: 336
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-195-889-182

  Query Match             57.4%;  Score 31;  DB 9;  Length 336;
  Best Local Similarity   62.5%;  Pred. No. 1.9e+02;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLC 8
              | |||  |
Db        209 QSYNKSFC 216


RESULT 40
US-10-216-161A-303
; Sequence 303, Application US/10216161A
; Publication No. US20060078964A1
; GENERAL INFORMATION:
;  APPLICANT: Ashkenazi, Avi
;  APPLICANT:  Baker Kevin P.
```

```
;  APPLICANT:  Botstein, David
;  APPLICANT:  Desnoyers, Luc
;  APPLICANT:  Eaton, Dan
;  APPLICANT:  Ferrara, Napoleon
;  APPLICANT:  Filvaroff, Ellen
;  APPLICANT:  Fong, Sherman
;  APPLICANT:  Gao, Wei-Qiang
;  APPLICANT:  Gerber, Hanspeter
;  APPLICANT:  Gerritsen, Mary E.
;  APPLICANT:  Goddard, Audrey
;  APPLICANT:  Godowski, Paul J.
;  APPLICANT:  Grimaldi, J. Christopher
;  APPLICANT:  Gurney, Austin L.
;  APPLICANT:  Hillan, Kenneth J
;  APPLICANT:  Kljavin, Ivar J.
;  APPLICANT:  Kuo, Sophia S.
;  APPLICANT:  Napier, Mary A.
;  APPLICANT:  Pan, James;
;  APPLICANT:  Paoni, Nicholas F.
;  APPLICANT:  Roy, Margaret Ann
;  APPLICANT:  Shelton, David L.
;  APPLICANT:  Stewart, Timothy A.
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Williams, P. Mickey
;  APPLICANT:  Wood, William I.
;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;  TITLE OF INVENTION:  Acids Encoding the Same
;  FILE REFERENCE: P2630P1C91
;  CURRENT APPLICATION NUMBER: US/10/216,161A
;  CURRENT FILING DATE:  2002-11-19
;  PRIOR APPLICATION NUMBER: 09/918585
;  PRIOR FILING DATE: 2001-07-30
;  PRIOR APPLICATION NUMBER: PCT/US00/04341
;  PRIOR FILING DATE: 2000-02-18
;  PRIOR APPLICATION NUMBER: PCT/US99/05028
;  PRIOR FILING DATE: 1999-03-08
;  PRIOR APPLICATION NUMBER: US 09/380,138
;  PRIOR FILING DATE: 1999-08-25
;  PRIOR APPLICATION NUMBER: 60/126,773
;  PRIOR FILING DATE: 1999-03-29
;  PRIOR APPLICATION NUMBER: 60/081,955
;  PRIOR FILING DATE: 1998-04-15
;  NUMBER OF SEQ ID NOS: 624
; SEQ ID NO 303
;   LENGTH: 336
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-216-161A-303

  Query Match             57.4%;  Score 31;  DB 9;  Length 336;
  Best Local Similarity   62.5%;  Pred. No. 1.9e+02;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLC 8
              | |||  |
Db        209 QSYNKSFC 216


RESULT 41
US-11-098-686-10689
; Sequence 10689, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
;  APPLICANT: Kapur, Vivek and Gebhart, Connie J.
;  TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
;  TITLE OF INVENTION:  FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
;  FILE REFERENCE: 09531-128001
;  CURRENT APPLICATION NUMBER: US/11/098,686
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31318
;  PRIOR FILING DATE: 2003-10-01
;  PRIOR APPLICATION NUMBER: US 60/416,395
;  PRIOR FILING DATE: 2002-10-04
;  NUMBER OF SEQ ID NOS: 11433
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10689
;   LENGTH: 356
;   TYPE: PRT
;   ORGANISM: Lawsonia intracellularis
US-11-098-686-10689

  Query Match             57.4%;  Score 31;  DB 11;  Length 356;
  Best Local Similarity   44.4%;  Pred. No. 2e+02;
  Matches    4;  Conservative    4;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLCD 9
              ::| :|||:
Db        221 EEYWRPLCE 229


RESULT 42
US-10-501-035-388
; Sequence 388, Application US/10501035
; Publication No. US20060046249A1
; GENERAL INFORMATION:
;  APPLICANT: Bristol-Myers Squibb Company
;  TITLE OF INVENTION: IDENTIFICATION OF POLYNUCLEOTIDES AND POLYPEPTIDE FOR PREDICTING
;  TITLE OF INVENTION:  ACTIVITY OF COMPOUNDS THAT INTERACT WITH PROTEIN TYROSINE KINASES
;  TITLE OF INVENTION:  AND/OR PROTEIN TYROSINE KINASE PATHWAYS
;  FILE REFERENCE: D0185 PCT
;  CURRENT APPLICATION NUMBER: US/10/501,035
;  CURRENT FILING DATE:  2004-07-09
;  PRIOR APPLICATION NUMBER: US 60/350,061
;  PRIOR FILING DATE: 2002-01-18
;  NUMBER OF SEQ ID NOS: 795
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 388
;   LENGTH: 442
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-501-035-388

  Query Match             57.4%;  Score 31;  DB 9;  Length 442;
  Best Local Similarity   83.3%;  Pred. No. 2.4e+02;
  Matches    5;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 YNKPLC 8
              || |||
Db        418 YNYPLC 423


RESULT 43
US-11-098-686-10234
; Sequence 10234, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
;  APPLICANT: Kapur, Vivek and Gebhart, Connie J.
;  TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
;  TITLE OF INVENTION:  FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
;  FILE REFERENCE: 09531-128001
;  CURRENT APPLICATION NUMBER: US/11/098,686
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31318
;  PRIOR FILING DATE: 2003-10-01
;  PRIOR APPLICATION NUMBER: US 60/416,395
;  PRIOR FILING DATE: 2002-10-04
;  NUMBER OF SEQ ID NOS: 11433
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10234
;   LENGTH: 457
;   TYPE: PRT
;   ORGANISM: Lawsonia intracellularis
US-11-098-686-10234

  Query Match             57.4%;  Score 31;  DB 11;  Length 457;
  Best Local Similarity   62.5%;  Pred. No. 2.5e+02;
```

```
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 QQYNKPLC 8
              | ||| :|
Db         27 QLYNKDIC 34


RESULT 44
US-11-050-857-952
; Sequence 952, Application US/11050857
; Publication No. US20060040278A1
; GENERAL INFORMATION:
;  APPLICANT: Compugen Ltd
;  TITLE OF INVENTION: NOVEL NUCLEOTIDE AND AMINO ACID SEQUENCES, AND ASSAYS AND METHODS
;  TITLE OF INVENTION:  THEREOF FOR DIAGNOSIS OF OVARIAN CANCER
;  FILE REFERENCE: 1847.1005
;  CURRENT APPLICATION NUMBER: US/11/050,857
;  CURRENT FILING DATE:  2005-01-27
;  NUMBER OF SEQ ID NOS: 1150
; SEQ ID NO 952
;   LENGTH: 712
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-050-857-952

  Query Match             57.4%;  Score 31;  DB 11;  Length 712;
  Best Local Similarity   100.0%;  Pred. No. 3.8e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 NKPLC 8
              |||||
Db        280 NKPLC 284


RESULT 45
US-10-505-928-288
; Sequence 288, Application US/10505928
; Publication No. US20060088532A1
; GENERAL INFORMATION:
;  APPLICANT: Ludwig Institute for Cancer Research et al.
;  TITLE OF INVENTION: LYMPHATIC ENDOTHELIAL GENES
;  FILE REFERENCE: 28967/39178
;  CURRENT APPLICATION NUMBER: US/10/505,928
;  CURRENT FILING DATE:  2004-08-27
;  PRIOR APPLICATION NUMBER: US 60/363,019
;  PRIOR FILING DATE: 2002-03-07
;  NUMBER OF SEQ ID NOS: 866
;  SOFTWARE: PatentIn 3.2
; SEQ ID NO 288
;   LENGTH: 720
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-505-928-288

  Query Match             57.4%;  Score 31;  DB 8;  Length 720;
  Best Local Similarity   83.3%;  Pred. No. 3.9e+02;
  Matches    5;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          4 NKPLCD 9
              | ||||
Db        425 NTPLCD 430


RESULT 46
US-11-050-857-951
; Sequence 951, Application US/11050857
; Publication No. US20060040278A1
; GENERAL INFORMATION:
;  APPLICANT: Compugen Ltd
;  TITLE OF INVENTION: NOVEL NUCLEOTIDE AND AMINO ACID SEQUENCES, AND ASSAYS AND METHODS
;  TITLE OF INVENTION:  THEREOF FOR DIAGNOSIS OF OVARIAN CANCER
;  FILE REFERENCE: 1847.1005
;  CURRENT APPLICATION NUMBER: US/11/050,857
;  CURRENT FILING DATE:  2005-01-27
;  NUMBER OF SEQ ID NOS: 1150
; SEQ ID NO 951
;   LENGTH: 806
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-050-857-951

  Query Match             57.4%;  Score 31;  DB 11;  Length 806;
  Best Local Similarity   100.0%;  Pred. No. 4.3e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 NKPLC 8
              |||||
Db        280 NKPLC 284


RESULT 47
US-11-050-857-950
; Sequence 950, Application US/11050857
; Publication No. US20060040278A1
; GENERAL INFORMATION:
;  APPLICANT: Compugen Ltd
;  TITLE OF INVENTION: NOVEL NUCLEOTIDE AND AMINO ACID SEQUENCES, AND ASSAYS AND METHODS
;  TITLE OF INVENTION:  THEREOF FOR DIAGNOSIS OF OVARIAN CANCER
;  FILE REFERENCE: 1847.1005
;  CURRENT APPLICATION NUMBER: US/11/050,857
;  CURRENT FILING DATE:  2005-01-27
;  NUMBER OF SEQ ID NOS: 1150
; SEQ ID NO 950
;   LENGTH: 970
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-050-857-950

  Query Match             57.4%;  Score 31;  DB 11;  Length 970;
  Best Local Similarity   100.0%;  Pred. No. 5.2e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 NKPLC 8
              |||||
Db        280 NKPLC 284


RESULT 48
US-11-050-857-949
; Sequence 949, Application US/11050857
; Publication No. US20060040278A1
; GENERAL INFORMATION:
;  APPLICANT: Compugen Ltd
;  TITLE OF INVENTION: NOVEL NUCLEOTIDE AND AMINO ACID SEQUENCES, AND ASSAYS AND METHODS
;  TITLE OF INVENTION:  THEREOF FOR DIAGNOSIS OF OVARIAN CANCER
;  FILE REFERENCE: 1847.1005
;  CURRENT APPLICATION NUMBER: US/11/050,857
;  CURRENT FILING DATE:  2005-01-27
;  NUMBER OF SEQ ID NOS: 1150
; SEQ ID NO 949
;   LENGTH: 1083
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-050-857-949

  Query Match             57.4%;  Score 31;  DB 11;  Length 1083;
  Best Local Similarity   100.0%;  Pred. No. 5.8e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 NKPLC 8
              |||||
Db        280 NKPLC 284


RESULT 49
US-11-050-857-948
```

; Sequence 948, Application US/11050857
; Publication No. US20060040278A1
; GENERAL INFORMATION:
; APPLICANT: Compugen Ltd
; TITLE OF INVENTION: NOVEL NUCLEOTIDE AND AMINO ACID SEQUENCES, AND ASSAYS AND METHODS
; TITLE OF INVENTION: THEREOF FOR DIAGNOSIS OF OVARIAN CANCER
; FILE REFERENCE: 1847.1005
; CURRENT APPLICATION NUMBER: US/11/050,857
; CURRENT FILING DATE: 2005-01-27
; NUMBER OF SEQ ID NOS: 1150
; SEQ ID NO 948
; LENGTH: 1292
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-050-857-948

Query Match 57.4%; Score 31; DB 11; Length 1292;
Best Local Similarity 100.0%; Pred. No. 6.9e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 NKPLC 8
||||||
Db 280 NKPLC 284

RESULT 50
US-11-050-857-947
; Sequence 947, Application US/11050857
; Publication No. US20060040278A1
; GENERAL INFORMATION:
; APPLICANT: Compugen Ltd
; TITLE OF INVENTION: NOVEL NUCLEOTIDE AND AMINO ACID SEQUENCES, AND ASSAYS AND METHODS
; TITLE OF INVENTION: THEREOF FOR DIAGNOSIS OF OVARIAN CANCER
; FILE REFERENCE: 1847.1005
; CURRENT APPLICATION NUMBER: US/11/050,857
; CURRENT FILING DATE: 2005-01-27
; NUMBER OF SEQ ID NOS: 1150
; SEQ ID NO 947
; LENGTH: 1346
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-050-857-947

Query Match 57.4%; Score 31; DB 11; Length 1346;
Best Local Similarity 100.0%; Pred. No. 7.1e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 NKPLC 8
||||||
Db 280 NKPLC 284

Search completed: May 5, 2006, 08:40:41
Job time : 10.4 secs

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OM protein - protein search, using sw model

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(without alignments)
35.946 Million cell updates/sec

Title: US-08-170-344-54
Perfect score: 51
Sequence: 1 LIRCINCQK 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

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Database : Issued_Patents_AA:*
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SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
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| 5 | 51 | 100.0 | 162 | 1 | US-08-316-239B-3 | Sequence 3, Appli |
| 6 | 51 | 100.0 | 162 | 1 | US-08-316-239B-4 | Sequence 4, Appli |
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| 11 | 51 | 100.0 | 266 | 2 | US-09-359-382-10 | Sequence 10, Appl |
| 12 | 51 | 100.0 | 266 | 2 | US-09-367-309A-1 | Sequence 1, Appli |
| 13 | 51 | 100.0 | 273 | 2 | US-09-485-885-4 | Sequence 4, Appli |
| 14 | 51 | 100.0 | 292 | 2 | US-09-485-885-10 | Sequence 10, Appl |
| 15 | 51 | 100.0 | 371 | 2 | US-09-485-885-6 | Sequence 6, Appli |
| 16 | 51 | 100.0 | 390 | 2 | US-09-485-885-14 | Sequence 14, Appl |
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| 18 | 43 | 84.3 | 10 | 2 | US-08-159-339A-90 | Sequence 90, Appl |
| 19 | 43 | 84.3 | 158 | 1 | US-08-247-904B-10 | Sequence 10, Appl |
| 20 | 43 | 84.3 | 158 | 2 | US-08-767-942A-19 | Sequence 19, Appl |
| 21 | 43 | 84.3 | 271 | 1 | US-08-117-083-14 | Sequence 14, Appl |
| 22 | 43 | 84.3 | 278 | 2 | US-09-485-885-21 | Sequence 21, Appl |
| 23 | 43 | 84.3 | 383 | 2 | US-09-485-885-23 | Sequence 23, Appl |
| 24 | 40 | 78.4 | 119 | 2 | US-09-732-210-333 | Sequence 333, App |
| 25 | 40 | 78.4 | 119 | 2 | US-09-732-210-334 | Sequence 334, App |
| 26 | 40 | 78.4 | 119 | 2 | US-09-538-092-255 | Sequence 255, App |
| 27 | 40 | 78.4 | 119 | 2 | US-09-538-092-316 | Sequence 316, App |
| 28 | 39 | 76.5 | 261 | 2 | US-10-104-047-2517 | Sequence 2517, Ap |
| 29 | 38 | 74.5 | 32 | 2 | US-09-270-767-59109 | Sequence 59109, A |
| 30 | 38 | 74.5 | 40 | 2 | US-09-270-767-60605 | Sequence 60605, A |
| 31 | 38 | 74.5 | 44 | 2 | US-09-270-767-45114 | Sequence 45114, A |
| 32 | 38 | 74.5 | 84 | 2 | US-09-270-767-43718 | Sequence 43718, A |
| 33 | 37 | 72.5 | 468 | 2 | US-09-498-612-6 | Sequence 6, Appli |
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| 37 | 36 | 70.6 | 504 | 2 | US-09-270-767-35938 | Sequence 35938, A |
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| 40 | 35 | 68.6 | 121 | 2 | US-09-248-796A-19706 | Sequence 19706, A |
| 41 | 35 | 68.6 | 133 | 2 | US-09-732-210-1578 | Sequence 1578, Ap |
| 42 | 35 | 68.6 | 340 | 4 | PCT-US96-02331-13 | Sequence 13, Appl |
| 43 | 35 | 68.6 | 494 | 2 | US-10-290-579A-175 | Sequence 175, App |
| 44 | 35 | 68.6 | 497 | 2 | US-10-290-579A-173 | Sequence 173, App |
| 45 | 35 | 68.6 | 842 | 4 | PCT-US96-02331-15 | Sequence 15, Appl |
| 46 | 34 | 66.7 | 35 | 2 | US-09-057-486-2 | Sequence 2, Appli |
| 47 | 34 | 66.7 | 55 | 2 | US-09-057-486-1 | Sequence 1, Appli |
| 48 | 34 | 66.7 | 71 | 2 | US-09-930-181-6 | Sequence 6, Appli |
| 49 | 34 | 66.7 | 72 | 2 | US-09-107-532A-4927 | Sequence 4927, Ap |
| 50 | 34 | 66.7 | 79 | 2 | US-09-513-999C-6001 | Sequence 6001, Ap |
| 51 | 34 | 66.7 | 91 | 2 | US-09-543-681A-6613 | Sequence 6613, Ap |
| 52 | 34 | 66.7 | 92 | 2 | US-09-270-767-40981 | Sequence 40981, A |
| 53 | 34 | 66.7 | 92 | 2 | US-09-270-767-56197 | Sequence 56197, A |
| 54 | 34 | 66.7 | 102 | 2 | US-09-540-236-2162 | Sequence 2162, Ap |
| 55 | 34 | 66.7 | 131 | 2 | US-09-732-210-1571 | Sequence 1571, Ap |
| 56 | 34 | 66.7 | 133 | 2 | US-09-732-210-69 | Sequence 69, Appl |
| 57 | 34 | 66.7 | 163 | 2 | US-09-117-217-8 | Sequence 8, Appli |
| 58 | 34 | 66.7 | 163 | 2 | US-09-735-487-8 | Sequence 8, Appli |
| 59 | 34 | 66.7 | 172 | 1 | US-08-117-981-6 | Sequence 6, Appli |
| 60 | 34 | 66.7 | 172 | 1 | US-08-477-081-6 | Sequence 6, Appli |
| 61 | 34 | 66.7 | 172 | 4 | PCT-US93-02142-6 | Sequence 6, Appli |
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| 63 | 34 | 66.7 | 275 | 1 | US-08-589-446-4 | Sequence 4, Appli |
| 64 | 34 | 66.7 | 275 | 1 | US-08-444-882-4 | Sequence 4, Appli |
| 65 | 34 | 66.7 | 275 | 1 | US-08-389-459A-4 | Sequence 4, Appli |
| 66 | 34 | 66.7 | 275 | 2 | US-08-987-867A-4 | Sequence 4, Appli |
| 67 | 34 | 66.7 | 307 | 2 | US-09-393-634-53 | Sequence 53, Appl |
| 68 | 34 | 66.7 | 437 | 2 | US-08-392-794A-2 | Sequence 2, Appli |
| 69 | 34 | 66.7 | 478 | 1 | US-08-127-499A-11 | Sequence 11, Appl |
| 70 | 34 | 66.7 | 478 | 1 | US-08-482-847-11 | Sequence 11, Appl |
| 71 | 34 | 66.7 | 491 | 2 | US-10-290-579A-182 | Sequence 182, App |
| 72 | 34 | 66.7 | 492 | 2 | US-09-991-258-5 | Sequence 5, Appli |
| 73 | 34 | 66.7 | 492 | 2 | US-10-290-579A-172 | Sequence 172, App |
| 74 | 34 | 66.7 | 494 | 2 | US-10-290-579A-179 | Sequence 179, App |
| 75 | 34 | 66.7 | 500 | 1 | US-08-816-155B-45 | Sequence 45, Appl |
| 76 | 34 | 66.7 | 500 | 2 | US-09-079-587-45 | Sequence 45, Appl |
| 77 | 34 | 66.7 | 507 | 2 | US-09-248-796A-19012 | Sequence 19012, A |
| 78 | 34 | 66.7 | 512 | 2 | US-08-463-210-8 | Sequence 8, Appli |
| 79 | 34 | 66.7 | 512 | 2 | US-09-124-900-2 | Sequence 2, Appli |
| 80 | 34 | 66.7 | 512 | 2 | US-08-463-028-8 | Sequence 8, Appli |
| 81 | 34 | 66.7 | 512 | 2 | US-08-463-209-8 | Sequence 8, Appli |
| 82 | 34 | 66.7 | 568 | 2 | US-09-949-016-7970 | Sequence 7970, Ap |
| 83 | 34 | 66.7 | 584 | 2 | US-09-842-307-2 | Sequence 2, Appli |
| 84 | 34 | 66.7 | 593 | 2 | US-09-831-233-15 | Sequence 15, Appl |
| 85 | 34 | 66.7 | 668 | 2 | US-09-930-181-2 | Sequence 2, Appli |
| 86 | 34 | 66.7 | 668 | 2 | US-10-054-579-2 | Sequence 2, Appli |
| 87 | 34 | 66.7 | 674 | 2 | US-10-283-247-2 | Sequence 2, Appli |
| 88 | 34 | 66.7 | 674 | 2 | US-10-283-247-7 | Sequence 7, Appli |
| 89 | 34 | 66.7 | 674 | 2 | US-10-283-247-8 | Sequence 8, Appli |
| 90 | 34 | 66.7 | 730 | 2 | US-09-487-558B-126 | Sequence 126, App |
| 91 | 33 | 64.7 | 9 | 2 | US-08-159-339A-220 | Sequence 220, App |
| 92 | 33 | 64.7 | 44 | 2 | US-09-270-767-32480 | Sequence 32480, A |
| 93 | 33 | 64.7 | 44 | 2 | US-09-270-767-47697 | Sequence 47697, A |
| 94 | 33 | 64.7 | 53 | 1 | US-08-841-483-33 | Sequence 33, Appl |
| 95 | 33 | 64.7 | 53 | 2 | US-09-382-911-33 | Sequence 33, Appl |
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| 97 | 33 | 64.7 | 61 | 2 | US-09-688-019-7 | Sequence 7, Appli |
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| 100 | 33 | 64.7 | 91 | 2 | US-09-270-767-57640 | Sequence 57640, A |

| | | | | | | |
|---|---|---|---|---|---|---|
| 101 | 33 | 64.7 | 98 | 2 | US-09-248-796A-14403 | Sequence 14403, A |
| 102 | 33 | 64.7 | 103 | 2 | US-09-489-039A-7262 | Sequence 7262, Ap |
| 103 | 33 | 64.7 | 115 | 2 | US-09-732-210-1572 | Sequence 1572, Ap |
| 104 | 33 | 64.7 | 115 | 2 | US-09-732-210-1574 | Sequence 1574, Ap |
| 105 | 33 | 64.7 | 115 | 2 | US-09-732-210-1575 | Sequence 1575, Ap |
| 106 | 33 | 64.7 | 115 | 2 | US-09-732-210-1579 | Sequence 1579, Ap |
| 107 | 33 | 64.7 | 115 | 2 | US-09-538-092-1387 | Sequence 1387, Ap |
| 108 | 33 | 64.7 | 115 | 2 | US-09-949-016-6013 | Sequence 6013, Ap |
| 109 | 33 | 64.7 | 119 | 2 | US-09-732-210-1576 | Sequence 1576, Ap |
| 110 | 33 | 64.7 | 122 | 2 | US-09-513-999C-7972 | Sequence 7972, Ap |
| 111 | 33 | 64.7 | 122 | 2 | US-09-949-016-7707 | Sequence 7707, Ap |
| 112 | 33 | 64.7 | 122 | 2 | US-09-949-016-8591 | Sequence 8591, Ap |
| 113 | 33 | 64.7 | 123 | 2 | US-09-949-016-9378 | Sequence 9378, Ap |
| 114 | 33 | 64.7 | 127 | 2 | US-09-732-210-1577 | Sequence 1577, Ap |
| 115 | 33 | 64.7 | 141 | 2 | US-09-270-767-42354 | Sequence 42354, A |
| 116 | 33 | 64.7 | 146 | 2 | US-09-270-767-42906 | Sequence 42906, A |
| 117 | 33 | 64.7 | 151 | 2 | US-09-134-000C-6514 | Sequence 6514, Ap |
| 118 | 33 | 64.7 | 187 | 2 | US-09-270-767-33039 | Sequence 33039, A |
| 119 | 33 | 64.7 | 187 | 2 | US-09-270-767-48256 | Sequence 48256, A |
| 120 | 33 | 64.7 | 195 | 2 | US-10-101-464A-554 | Sequence 554, App |
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| 122 | 33 | 64.7 | 213 | 2 | US-08-935-333-3 | Sequence 3, Appli |
| 123 | 33 | 64.7 | 221 | 2 | US-09-540-236-2447 | Sequence 2447, Ap |
| 124 | 33 | 64.7 | 231 | 2 | US-10-046-433-61 | Sequence 61, Appl |
| 125 | 33 | 64.7 | 274 | 2 | US-09-270-767-61923 | Sequence 61923, A |
| 126 | 33 | 64.7 | 297 | 2 | US-09-548-130-6 | Sequence 6, Appli |
| 127 | 33 | 64.7 | 297 | 2 | US-09-949-016-7016 | Sequence 7016, Ap |
| 128 | 33 | 64.7 | 297 | 2 | US-09-949-016-11181 | Sequence 11181, A |
| 129 | 33 | 64.7 | 299 | 2 | US-09-548-130-3 | Sequence 3, Appli |
| 130 | 33 | 64.7 | 299 | 2 | US-10-119-466-12 | Sequence 12, Appl |
| 131 | 33 | 64.7 | 340 | 1 | US-08-307-499-32 | Sequence 32, Appl |
| 132 | 33 | 64.7 | 340 | 2 | US-09-299-268-32 | Sequence 32, Appl |
| 133 | 33 | 64.7 | 340 | 2 | US-09-976-605-8 | Sequence 8, Appli |
| 134 | 33 | 64.7 | 358 | 2 | US-09-252-991A-23102 | Sequence 23102, A |
| 135 | 33 | 64.7 | 376 | 2 | US-09-134-000C-6024 | Sequence 6024, Ap |
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| 140 | 33 | 64.7 | 497 | 2 | US-10-290-579A-176 | Sequence 176, App |
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| 142 | 33 | 64.7 | 498 | 1 | US-08-470-202-60 | Sequence 60, Appl |
| 143 | 33 | 64.7 | 498 | 1 | US-08-471-770-59 | Sequence 59, Appl |
| 144 | 33 | 64.7 | 498 | 1 | US-08-471-770-60 | Sequence 60, Appl |
| 145 | 33 | 64.7 | 498 | 1 | US-08-468-059-59 | Sequence 59, Appl |
| 146 | 33 | 64.7 | 498 | 1 | US-08-468-059-60 | Sequence 60, Appl |
| 147 | 33 | 64.7 | 498 | 2 | US-09-109-916-59 | Sequence 59, Appl |
| 148 | 33 | 64.7 | 498 | 2 | US-09-109-916-60 | Sequence 60, Appl |
| 149 | 33 | 64.7 | 498 | 2 | US-09-886-156-59 | Sequence 59, Appl |
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| 151 | 33 | 64.7 | 498 | 2 | US-09-886-149-59 | Sequence 59, Appl |
| 152 | 33 | 64.7 | 498 | 2 | US-09-886-149-60 | Sequence 60, Appl |
| 153 | 33 | 64.7 | 498 | 2 | US-09-886-150-59 | Sequence 59, Appl |
| 154 | 33 | 64.7 | 498 | 2 | US-09-886-150-60 | Sequence 60, Appl |
| 155 | 33 | 64.7 | 498 | 2 | US-09-886-159-59 | Sequence 59, Appl |
| 156 | 33 | 64.7 | 498 | 2 | US-09-886-159-60 | Sequence 60, Appl |
| 157 | 33 | 64.7 | 498 | 2 | US-10-326-090-59 | Sequence 59, Appl |
| 158 | 33 | 64.7 | 498 | 2 | US-10-326-090-60 | Sequence 60, Appl |
| 159 | 33 | 64.7 | 500 | 2 | US-10-290-579A-177 | Sequence 177, App |
| 160 | 33 | 64.7 | 500 | 2 | US-10-290-579A-178 | Sequence 178, App |
| 161 | 33 | 64.7 | 512 | 2 | US-09-319-588C-4 | Sequence 4, Appli |
| 162 | 33 | 64.7 | 518 | 2 | US-09-206-551-45 | Sequence 45, Appl |
| 163 | 33 | 64.7 | 567 | 1 | US-08-841-483-2 | Sequence 2, Appli |
| 164 | 33 | 64.7 | 567 | 2 | US-09-382-911-2 | Sequence 2, Appli |
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| 166 | 33 | 64.7 | 976 | 2 | US-09-487-558B-248 | Sequence 248, App |
| 167 | 33 | 64.7 | 1694 | 2 | US-09-560-385A-12 | Sequence 12, Appl |
| 168 | 33 | 64.7 | 1725 | 2 | US-09-560-385A-10 | Sequence 10, Appl |
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| 170 | 32 | 62.7 | 21 | 2 | US-09-482-612-7 | Sequence 7, Appli |
| 171 | 32 | 62.7 | 21 | 2 | US-09-677-554-7 | Sequence 7, Appli |
| 172 | 32 | 62.7 | 25 | 2 | US-09-381-009-27 | Sequence 27, Appl |
| 173 | 32 | 62.7 | 26 | 1 | US-08-620-151-28 | Sequence 28, Appl |
| 174 | 32 | 62.7 | 70 | 2 | US-09-248-796A-21178 | Sequence 21178, A |
| 175 | 32 | 62.7 | 79 | 2 | US-09-248-796A-21555 | Sequence 21555, A |
| 176 | 32 | 62.7 | 96 | 2 | US-09-513-999C-4709 | Sequence 4709, Ap |
| 177 | 32 | 62.7 | 97 | 2 | US-09-621-625A-27 | Sequence 27, Appl |
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| 181 | 32 | 62.7 | 122 | 2 | US-09-270-767-50933 | Sequence 50933, A |
| 182 | 32 | 62.7 | 122 | 2 | US-09-949-016-9892 | Sequence 9892, Ap |
| 183 | 32 | 62.7 | 156 | 2 | US-08-600-982-30 | Sequence 30, Appl |
| 184 | 32 | 62.7 | 156 | 4 | PCT-US94-10261A-30 | Sequence 30, Appl |
| 185 | 32 | 62.7 | 197 | 2 | US-09-621-625A-25 | Sequence 25, Appl |
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| 187 | 32 | 62.7 | 212 | 2 | US-10-104-047-2514 | Sequence 2514, Ap |
| 188 | 32 | 62.7 | 219 | 2 | US-09-270-767-43681 | Sequence 43681, A |
| 189 | 32 | 62.7 | 222 | 2 | US-09-252-991A-27972 | Sequence 27972, A |
| 190 | 32 | 62.7 | 235 | 2 | US-10-030-808-2 | Sequence 2, Appli |
| 191 | 32 | 62.7 | 252 | 2 | US-09-543-681A-4245 | Sequence 4245, Ap |
| 192 | 32 | 62.7 | 282 | 2 | US-09-252-991A-27313 | Sequence 27313, A |
| 193 | 32 | 62.7 | 292 | 2 | US-09-621-625A-2 | Sequence 2, Appli |
| 194 | 32 | 62.7 | 292 | 2 | US-09-621-625A-17 | Sequence 17, Appl |
| 195 | 32 | 62.7 | 295 | 2 | US-09-248-796A-17556 | Sequence 17556, A |
| 196 | 32 | 62.7 | 299 | 2 | US-09-270-767-42653 | Sequence 42653, A |
| 197 | 32 | 62.7 | 321 | 2 | US-09-270-767-45035 | Sequence 45035, A |
| 198 | 32 | 62.7 | 328 | 2 | US-08-776-188C-77 | Sequence 77, Appl |
| 199 | 32 | 62.7 | 337 | 1 | US-07-648-796A-1 | Sequence 1, Appli |
| 200 | 32 | 62.7 | 351 | 2 | US-09-248-796A-20887 | Sequence 20887, A |
| 201 | 32 | 62.7 | 368 | 2 | US-09-000-094-20 | Sequence 20, Appl |
| 202 | 32 | 62.7 | 368 | 2 | US-10-011-749-20 | Sequence 20, Appl |
| 203 | 32 | 62.7 | 375 | 2 | US-09-000-094-22 | Sequence 22, Appl |
| 204 | 32 | 62.7 | 375 | 2 | US-09-323-872A-33 | Sequence 33, Appl |
| 205 | 32 | 62.7 | 375 | 2 | US-09-072-433-18 | Sequence 18, Appl |
| 206 | 32 | 62.7 | 375 | 2 | US-10-011-749-22 | Sequence 22, Appl |
| 207 | 32 | 62.7 | 458 | 1 | US-07-648-796A-5 | Sequence 5, Appli |
| 208 | 32 | 62.7 | 465 | 2 | US-09-000-094-24 | Sequence 24, Appl |
| 209 | 32 | 62.7 | 465 | 2 | US-10-011-749-24 | Sequence 24, Appl |
| 210 | 32 | 62.7 | 493 | 2 | US-09-952-060-33 | Sequence 33, Appl |
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| 212 | 32 | 62.7 | 500 | 1 | US-08-487-657-1 | Sequence 1, Appli |
| 213 | 32 | 62.7 | 500 | 2 | US-09-309-572-16 | Sequence 16, Appl |
| 214 | 32 | 62.7 | 500 | 2 | US-09-718-096-16 | Sequence 16, Appl |
| 215 | 32 | 62.7 | 500 | 2 | US-10-290-579A-174 | Sequence 174, App |
| 216 | 32 | 62.7 | 500 | 2 | US-09-393-795-3 | Sequence 3, Appli |
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| 225 | 32 | 62.7 | 1587 | 2 | US-09-000-094-46 | Sequence 46, Appl |
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| 232 | 32 | 62.7 | 1713 | 4 | PCT-US94-10261A-24 | Sequence 24, Appl |
| 233 | 32 | 62.7 | 1722 | 2 | US-09-538-092-1033 | Sequence 1033, Ap |
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| 236 | 32 | 62.7 | 1876 | 2 | US-09-487-558B-102 | Sequence 102, App |
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| 990 | 28 | 54.9 | 154 | 2 | US-09-699-769-41 | Sequence 41, Appl |
| 991 | 28 | 54.9 | 156 | 2 | US-09-134-001C-4260 | Sequence 4260, Ap |
| 992 | 28 | 54.9 | 157 | 2 | US-09-107-532A-4843 | Sequence 4843, Ap |
| 993 | 28 | 54.9 | 159 | 2 | US-09-227-357-319 | Sequence 319, App |
| 994 | 28 | 54.9 | 159 | 2 | US-09-973-278-303 | Sequence 303, App |
| 995 | 28 | 54.9 | 161 | 2 | US-09-252-991A-27935 | Sequence 27935, A |
| 996 | 28 | 54.9 | 161 | 2 | US-09-107-433-4379 | Sequence 4379, Ap |
| 997 | 28 | 54.9 | 164 | 2 | US-09-252-991A-18734 | Sequence 18734, A |
| 998 | 28 | 54.9 | 169 | 2 | US-09-252-991A-18059 | Sequence 18059, A |
| 999 | 28 | 54.9 | 170 | 1 | US-08-039-297B-8 | Sequence 8, Appli |
| 1000 | 28 | 54.9 | 170 | 2 | US-08-586-039B-45 | Sequence 45, Appl |

ALIGNMENTS

```
RESULT 1
US-08-159-339A-79
; Sequence 79, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  79:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  10 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-79

  Query Match           100.0%;  Score 51;  DB 2;  Length 10;
  Best Local Similarity  100.0%;  Pred. No. 0.017;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db          2 LIRCINCQK 10


RESULT 2
US-08-934-915-165
; Sequence 165, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  165:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-165

  Query Match           100.0%;  Score 51;  DB 1;  Length 20;
  Best Local Similarity  100.0%;  Pred. No. 0.033;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db          1 LIRCINCQK 9
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RESULT 3
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
;  APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
;  TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 F
;  TITLE OF INVENTION:  TRANSCRIPTIONAL REGULATION
;  FILE REFERENCE: N73477C GCW
;  CURRENT APPLICATION NUMBER: US/09/701,080C
;  CURRENT FILING DATE:  2001-02-27
;  PRIOR APPLICATION NUMBER: GB 9811303.8
;  PRIOR FILING DATE: 1998-05-26
;  PRIOR APPLICATION NUMBER: GB 9900157.0
;  PRIOR FILING DATE: 1999-01-05
;  NUMBER OF SEQ ID NOS: 36
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-09-701-080C-18

  Query Match           100.0%;  Score 51;  DB 2;  Length 151;
  Best Local Similarity  100.0%;  Pred. No. 0.24;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        100 LIRCINCQK 108


RESULT 4
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-2

  Query Match           100.0%;  Score 51;  DB 2;  Length 158;
  Best Local Similarity  100.0%;  Pred. No. 0.25;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        107 LIRCINCQK 115


RESULT 5
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-3

  Query Match           100.0%;  Score 51;  DB 1;  Length 162;
  Best Local Similarity  100.0%;  Pred. No. 0.26;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        107 LIRCINCQK 115


RESULT 6
US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
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;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-4

  Query Match             100.0%;  Score 51;  DB 1;  Length 162;
  Best Local Similarity   100.0%;  Pred. No. 0.26;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        107 LIRCINCQK 115


RESULT 7
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

  Query Match             100.0%;  Score 51;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.27;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db         45 LIRCINCQK 53


RESULT 8
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-12

  Query Match             100.0%;  Score 51;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.27;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db         45 LIRCINCQK 53


RESULT 9
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
;  APPLICANT:  KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION:  ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE:  017753-122
;  CURRENT APPLICATION NUMBER: US/09/462,993
;  CURRENT FILING DATE:  2000-04-17
;  PRIOR APPLICATION NUMBER:  PCT/FR98/01576
;  PRIOR FILING DATE:  1998-07-17
;  PRIOR APPLICATION NUMBER:  FR 97/09152
;  PRIOR FILING DATE:  1997-07-18
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

  Query Match             100.0%;  Score 51;  DB 2;  Length 243;
  Best Local Similarity   100.0%;  Pred. No. 0.39;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        135 LIRCINCQK 143


RESULT 10
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
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; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

  Query Match             100.0%;  Score 51;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.42;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        107 LIRCINCQK 115


RESULT 11
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-10

  Query Match             100.0%;  Score 51;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.42;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        107 LIRCINCQK 115


RESULT 12
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 51;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.42;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        107 LIRCINCQK 115


RESULT 13
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-4

  Query Match             100.0%;  Score 51;  DB 2;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 0.43;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        213 LIRCINCQK 221


RESULT 14
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
```

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;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-10

  Query Match             100.0%;  Score 51;  DB 2;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.46;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        232 LIRCINCQK 240


RESULT 15
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-6

  Query Match             100.0%;  Score 51;  DB 2;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 0.58;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        213 LIRCINCQK 221


RESULT 16
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-14

  Query Match             100.0%;  Score 51;  DB 2;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 0.61;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        232 LIRCINCQK 240


RESULT 17
US-08-159-339A-569
; Sequence 569, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  569:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-569
```

```
  Query Match             84.3%;  Score 43;  DB 2;  Length 9;
  Best Local Similarity   77.8%;  Pred. No. 4.6e+05;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||: |||
Db          1 LIRCLRCQK 9


RESULT 18
US-08-159-339A-90
; Sequence 90, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  90:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  10 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-90

  Query Match             84.3%;  Score 43;  DB 2;  Length 10;
  Best Local Similarity   77.8%;  Pred. No. 0.35;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||: |||
Db          2 LIRCLRCQK 10


RESULT 19
US-08-247-904B-10
; Sequence 10, Application US/08247904B
; Patent No. 5981699
;  GENERAL INFORMATION:
;    APPLICANT:  Rolfe, Mark
;    APPLICANT:  Eckstein, Jens W.
;    APPLICANT:  Draetta, Giulio
;    TITLE OF INVENTION:  Human Ubiquitin Conjugating Enzyme
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Foley, Hoag & Eliot
;      STREET:  One Post Office Square
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  ASCII(text)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/247,904B
;      FILING DATE:  23-MAY-1994
;      CLASSIFICATION:  530
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Vincent, Matthew P.
;      REGISTRATION NUMBER:  36,709
;      REFERENCE/DOCKET NUMBER:  MIV-029.01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 832-1000
;      TELEFAX:  (617) 832-7000
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  158 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-247-904B-10

  Query Match             84.3%;  Score 43;  DB 1;  Length 158;
  Best Local Similarity   77.8%;  Pred. No. 5.2;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||: |||
Db        102 LIRCLRCQK 110


RESULT 20
US-08-767-942A-19
; Sequence 19, Application US/08767942A
; Patent No. 6068982
;  GENERAL INFORMATION:
;    APPLICANT:  Rolfe, Mark
;    APPLICANT:  Chiu, M. Isabel
;    APPLICANT:  Berlin, Vivian
;    APPLICANT:  Damagnez, Veronique
;    APPLICANT:  Draetta, Giulio
;    APPLICANT:  Guillaume, Cottarel
;    TITLE OF INVENTION:  UBIQUITIN CONJUGATING ENZYMES
;    NUMBER OF SEQUENCES:  45
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  FOLEY, HOAG & ELIOT LLP
;      STREET:  One Post Office Square
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109-2170
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
```

```
;       APPLICATION NUMBER:  US/08/767,942A
;       FILING DATE:  17-DEC-1996
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Vincent, Matthew P.
;       REGISTRATION NUMBER:  36,709
;       REFERENCE/DOCKET NUMBER:  MIV-029.04
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  617-832-1000
;       TELEFAX:  617-832-7000
;   INFORMATION FOR SEQ ID NO:  19:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  158 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-08-767-942A-19

  Query Match             84.3%;  Score 43;  DB 2;  Length 158;
  Best Local Similarity   77.8%;  Pred. No. 5.2;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||| ||| 
Db        102 LIRCLRCQK 110


RESULT 21
US-08-117-083-14
; Sequence 14, Application US/08117083
; Patent No. 5719054
;  GENERAL INFORMATION:
;     APPLICANT:  Boursnell, Michael E.
;     APPLICANT:  Inglis, Stephen C.
;     APPLICANT:  Munro, Alan J.
;     TITLE OF INVENTION:  Recombinant Virus Vectors Encoding Human
;     TITLE OF INVENTION:  Papilloma Virus Proteins
;     NUMBER OF SEQUENCES:  70
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Walter H. Dreger
;       STREET:  4 Embarcadero Center, Suite 3400
;       CITY:  San Francisco
;       STATE:  CA
;       COUNTRY:  USA
;       ZIP:  94111
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/117,083
;       FILING DATE:  10-SEP-1993
;       CLASSIFICATION:  435
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Dreger, Walter H.
;       REGISTRATION NUMBER:  24,190
;       REFERENCE/DOCKET NUMBER:  A-58783
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  415-781-1989
;       TELEFAX:  415-398-3249
;       TELEX:  910 277299
;   INFORMATION FOR SEQ ID NO:  14:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  271 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
;     FEATURE:
;       NAME/KEY:  Protein
;       LOCATION:  1..271
;       OTHER INFORMATION:  /note= "Xaa refers to stop codon in
;       OTHER INFORMATION:  the open reading frame."
US-08-117-083-14

  Query Match             84.3%;  Score 43;  DB 1;  Length 271;
  Best Local Similarity   77.8%;  Pred. No. 8.8;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||| ||| 
Db        103 LIRCLRCQK 111


RESULT 22
US-09-485-885-21
; Sequence 21, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 21
;   LENGTH: 278
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-21

  Query Match             84.3%;  Score 43;  DB 2;  Length 278;
  Best Local Similarity   77.8%;  Pred. No. 9.1;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||| ||| 
Db        213 LIRCLRCQK 221


RESULT 23
US-09-485-885-23
; Sequence 23, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 23
;   LENGTH: 383
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-23

  Query Match             84.3%;  Score 43;  DB 2;  Length 383;
```

```
  Best Local Similarity   77.8%;  Pred. No. 12;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||| : |||
Db        213 LIRCLRCQK 221


RESULT 24
US-09-732-210-333
; Sequence 333, Application US/09732210
; Patent No. 6573361
; GENERAL INFORMATION:
;  APPLICANT: Bunkers, Greg J.
;  APPLICANT:  Liang, Jihong
;  APPLICANT:  Mittanck, Cindy A.
;  APPLICANT:  Seale, Jeffrey W.
;  APPLICANT:  Wu, Yonnie S.
;  TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
;  FILE REFERENCE: 38-21(15036)B
;  CURRENT APPLICATION NUMBER: US/09/732,210
;  CURRENT FILING DATE:  2000-12-07
;  PRIOR APPLICATION NUMBER: US 60/169,513
;  PRIOR FILING DATE: 1999-12-07
;  PRIOR APPLICATION NUMBER: US 60/169,340
;  PRIOR FILING DATE: 1999-12-07
;  NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 333
;   LENGTH: 119
;   TYPE: PRT
;   ORGANISM: Saccharomyces cerevisiae
US-09-732-210-333

  Query Match             78.4%;  Score 40;  DB 2;  Length 119;
  Best Local Similarity   62.5%;  Pred. No. 12;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 IRCINCQK 9
              :||:|| |
Db         21 VRCVNCSK 28


RESULT 25
US-09-732-210-334
; Sequence 334, Application US/09732210
; Patent No. 6573361
; GENERAL INFORMATION:
;  APPLICANT: Bunkers, Greg J.
;  APPLICANT:  Liang, Jihong
;  APPLICANT:  Mittanck, Cindy A.
;  APPLICANT:  Seale, Jeffrey W.
;  APPLICANT:  Wu, Yonnie S.
;  TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
;  FILE REFERENCE: 38-21(15036)B
;  CURRENT APPLICATION NUMBER: US/09/732,210
;  CURRENT FILING DATE:  2000-12-07
;  PRIOR APPLICATION NUMBER: US 60/169,513
;  PRIOR FILING DATE: 1999-12-07
;  PRIOR APPLICATION NUMBER: US 60/169,340
;  PRIOR FILING DATE: 1999-12-07
;  NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 334
;   LENGTH: 119
;   TYPE: PRT
;   ORGANISM: Saccharomyces cerevisiae
US-09-732-210-334

  Query Match             78.4%;  Score 40;  DB 2;  Length 119;
  Best Local Similarity   62.5%;  Pred. No. 12;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 IRCINCQK 9
              :||:|| |
Db         21 VRCVNCSK 28


RESULT 26
US-09-538-092-255
; Sequence 255, Application US/09538092
; Patent No. 6753314
; GENERAL INFORMATION:
;  APPLICANT: Giot, Loic
;  APPLICANT:  Mansfield, Traci A.
;  TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
;  FILE REFERENCE: 15966-542
;  CURRENT APPLICATION NUMBER: US/09/538,092
;  CURRENT FILING DATE:  2000-03-29
;  PRIOR APPLICATION NUMBER: 60/127,352
;  PRIOR FILING DATE: 1999-04-01
;  PRIOR APPLICATION NUMBER: 60/178,965
;  PRIOR FILING DATE: 2000-02-01
;  NUMBER OF SEQ ID NOS: 1387
;  SOFTWARE: CuraPatSeqFormatter Version 0.9
; SEQ ID NO 255
;   LENGTH: 119
;   TYPE: PRT
;   ORGANISM: Saccharomyces cerevisiae
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (0)...(0)
;   OTHER INFORMATION: Polypeptide Accession Number YER131W
US-09-538-092-255

  Query Match             78.4%;  Score 40;  DB 2;  Length 119;
  Best Local Similarity   62.5%;  Pred. No. 12;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 IRCINCQK 9
              :||:|| |
Db         21 VRCVNCSK 28


RESULT 27
US-09-538-092-316
; Sequence 316, Application US/09538092
; Patent No. 6753314
; GENERAL INFORMATION:
;  APPLICANT: Giot, Loic
;  APPLICANT:  Mansfield, Traci A.
;  TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
;  FILE REFERENCE: 15966-542
;  CURRENT APPLICATION NUMBER: US/09/538,092
;  CURRENT FILING DATE:  2000-03-29
;  PRIOR APPLICATION NUMBER: 60/127,352
;  PRIOR FILING DATE: 1999-04-01
;  PRIOR APPLICATION NUMBER: 60/178,965
;  PRIOR FILING DATE: 2000-02-01
;  NUMBER OF SEQ ID NOS: 1387
;  SOFTWARE: CuraPatSeqFormatter Version 0.9
; SEQ ID NO 316
;   LENGTH: 119
;   TYPE: PRT
;   ORGANISM: Saccharomyces cerevisiae
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (0)...(0)
;   OTHER INFORMATION: Polypeptide Accession Number YGL189C
US-09-538-092-316

  Query Match             78.4%;  Score 40;  DB 2;  Length 119;
  Best Local Similarity   62.5%;  Pred. No. 12;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 IRCINCQK 9
              :||:|| |
Db         21 VRCVNCSK 28
```

```
RESULT 28
US-10-104-047-2517
; Sequence 2517, Application US/10104047
; Patent No. 6943241
; GENERAL INFORMATION:
;  APPLICANT: HELIX RESEARCH INSTITUTE
;  TITLE OF INVENTION: No. 6943241el full length cDNA
;  FILE REFERENCE: H1-A0105
;  CURRENT APPLICATION NUMBER: US/10/104,047
;  CURRENT FILING DATE:  2002-03-25
;  PRIOR APPLICATION NUMBER:
;  PRIOR FILING DATE:
;  NUMBER OF SEQ ID NOS: 4096
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2517
;   LENGTH: 261
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-104-047-2517

  Query Match             76.5%;  Score 39;  DB 2;  Length 261;
  Best Local Similarity   62.5%;  Pred. No. 39;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 IRCINCQK 9
              ::|||||:|
Db         60 VQCINCEK 67


RESULT 29
US-09-270-767-59109
; Sequence 59109, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 59109
;   LENGTH: 32
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-59109

  Query Match             74.5%;  Score 38;  DB 2;  Length 32;
  Best Local Similarity   55.6%;  Pred. No. 7.2;
  Matches    5;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |:|||:|::
Db         14 LLRCISCER 22


RESULT 30
US-09-270-767-60605
; Sequence 60605, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 60605
;   LENGTH: 40
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-60605

  Query Match             74.5%;  Score 38;  DB 2;  Length 40;
  Best Local Similarity   55.6%;  Pred. No. 8.9;
  Matches    5;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |:|||:|::
Db         14 LLRCISCER 22


RESULT 31
US-09-270-767-45114
; Sequence 45114, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 45114
;   LENGTH: 44
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-45114

  Query Match             74.5%;  Score 38;  DB 2;  Length 44;
  Best Local Similarity   55.6%;  Pred. No. 9.8;
  Matches    5;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |:|||:|::
Db         18 LLRCISCER 26


RESULT 32
US-09-270-767-43718
; Sequence 43718, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 43718
;   LENGTH: 84
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
;   FEATURE:
;   OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-43718

  Query Match             74.5%;  Score 38;  DB 2;  Length 84;
  Best Local Similarity   55.6%;  Pred. No. 19;
  Matches    5;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |:|||:|::
Db         66 LLRCISCER 74


RESULT 33
US-09-498-612-6
; Sequence 6, Application US/09498612
; Patent No. 6846481
; GENERAL INFORMATION:
```

```
;  APPLICANT: GAERTIG, Jacek
;  APPLICANT:  DICKERSON Jr., Harry W.
;  APPLICANT:  CLARK, Theodore G.
;  APPLICANT:  THE UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC
;  TITLE OF INVENTION: RECOMBINANT EXPRESSION OF HETEROLOGOUS NUCLEIC ACIDS IN
;  TITLE OF INVENTION:  PROTOZOA
;  FILE REFERENCE: 235.00100101
;  CURRENT APPLICATION NUMBER: US/09/498,612
;  CURRENT FILING DATE:  2000-02-04
;  PRIOR APPLICATION NUMBER: 60/118,634
;  PRIOR FILING DATE: 1999-02-04
;  PRIOR APPLICATION NUMBER: 60/122,372
;  PRIOR FILING DATE: 1999-03-02
;  PRIOR APPLICATION NUMBER: 60/124,905
;  PRIOR FILING DATE: 1999-03-17
;  PRIOR APPLICATION NUMBER: 60/131,121
;  PRIOR FILING DATE: 1999-04-27
;  PRIOR APPLICATION NUMBER: PCT/US00/02966
;  PRIOR FILING DATE: 2000-02-04
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
;   LENGTH: 468
;   TYPE: PRT
;   ORGANISM: Ichthyophthirius multifiliis
US-09-498-612-6

  Query Match             72.5%;  Score 37;  DB 2;  Length 468;
  Best Local Similarity   83.3%;  Pred. No. 1.5e+02;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 CINCQK 9
              |:||||
Db         44 CVNCQK 49


RESULT 34
US-09-489-039A-9691
; Sequence 9691, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
;  APPLICANT:  Gary Breton et. al
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
;  TITLE OF INVENTION:  PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  2709.2004001
;  CURRENT APPLICATION NUMBER: US/09/489,039A
;  CURRENT FILING DATE:  2000-01-27
;  PRIOR APPLICATION NUMBER:  US 60/117,747
;  PRIOR FILING DATE:  1999-01-29
;  NUMBER OF SEQ ID NOS:  14342
; SEQ ID NO 9691
;   LENGTH: 71
;   TYPE: PRT
;   ORGANISM: Klebsiella pneumoniae
US-09-489-039A-9691

  Query Match             70.6%;  Score 36;  DB 2;  Length 71;
  Best Local Similarity   66.7%;  Pred. No. 33;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||| :| |
Db          9 LIRCYSCHK 17


RESULT 35
US-09-328-352-5522
; Sequence 5522, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton et al.
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
;  TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: GTC99-03PA
;  CURRENT APPLICATION NUMBER: US/09/328,352
;  CURRENT FILING DATE: 1999-06-04
;  NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 5522
;   LENGTH: 269
;   TYPE: PRT
;   ORGANISM: Acinetobacter baumannii
US-09-328-352-5522

  Query Match             70.6%;  Score 36;  DB 2;  Length 269;
  Best Local Similarity   71.4%;  Pred. No. 1.2e+02;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINC 7
              |::||||
Db         66 LLKCINC 72


RESULT 36
US-10-104-047-2638
; Sequence 2638, Application US/10104047
; Patent No. 6943241
; GENERAL INFORMATION:
;  APPLICANT: HELIX RESEARCH INSTITUTE
;  TITLE OF INVENTION: No. 6943241el full length cDNA
;  FILE REFERENCE: H1-A0105
;  CURRENT APPLICATION NUMBER: US/10/104,047
;  CURRENT FILING DATE:  2002-03-25
;  PRIOR APPLICATION NUMBER:
;  PRIOR FILING DATE:
;  NUMBER OF SEQ ID NOS: 4096
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2638
;   LENGTH: 422
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-104-047-2638

  Query Match             70.6%;  Score 36;  DB 2;  Length 422;
  Best Local Similarity   71.4%;  Pred. No. 1.9e+02;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 IRCINCQ 8
              |||:||:
Db         10 IRCLNCR 16


RESULT 37
US-09-270-767-35938
; Sequence 35938, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 35938
;   LENGTH: 504
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
;   FEATURE:
;   OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-35938

  Query Match             70.6%;  Score 36;  DB 2;  Length 504;
  Best Local Similarity   75.0%;  Pred. No. 2.3e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQ 8
```

```
              || ||||:
Db        483 LIACINCK 490


RESULT 38
US-09-270-767-51155
; Sequence 51155, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 51155
;   LENGTH: 504
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
;   FEATURE:
;   OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-51155

  Query Match             70.6%;  Score 36;  DB 2;  Length 504;
  Best Local Similarity   75.0%;  Pred. No. 2.3e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQ 8
              || ||||:
Db        483 LIACINCK 490


RESULT 39
US-10-104-047-3783
; Sequence 3783, Application US/10104047
; Patent No. 6943241
; GENERAL INFORMATION:
;  APPLICANT: HELIX RESEARCH INSTITUTE
;  TITLE OF INVENTION: No. 6943241el full length cDNA
;  FILE REFERENCE: H1-A0105
;  CURRENT APPLICATION NUMBER: US/10/104,047
;  CURRENT FILING DATE:  2002-03-25
;  PRIOR APPLICATION NUMBER:
;  PRIOR FILING DATE:
;  NUMBER OF SEQ ID NOS: 4096
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3783
;   LENGTH: 587
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-104-047-3783

  Query Match             70.6%;  Score 36;  DB 2;  Length 587;
  Best Local Similarity   71.4%;  Pred. No. 2.7e+02;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 IRCINCQ 8
              |||:||:
Db        143 IRCLNCR 149


RESULT 40
US-09-248-796A-19706
; Sequence 19706, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 19706
;   LENGTH: 121
;   TYPE: PRT
;   ORGANISM: Candida albicans
US-09-248-796A-19706

  Query Match             68.6%;  Score 35;  DB 2;  Length 121;
  Best Local Similarity   50.0%;  Pred. No. 82;
  Matches    4;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 IRCINCQK 9
              :|||:|| :
Db         23 VRCLNCAR 30


RESULT 41
US-09-732-210-1578
; Sequence 1578, Application US/09732210
; Patent No. 6573361
; GENERAL INFORMATION:
;  APPLICANT: Bunkers, Greg J.
;  APPLICANT:  Liang, Jihong
;  APPLICANT:  Mittanck, Cindy A.
;  APPLICANT:  Seale, Jeffrey W.
;  APPLICANT:  Wu, Yonnie S.
;  TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
;  FILE REFERENCE: 38-21(15036)B
;  CURRENT APPLICATION NUMBER: US/09/732,210
;  CURRENT FILING DATE:  2000-12-07
;  PRIOR APPLICATION NUMBER: US 60/169,513
;  PRIOR FILING DATE: 1999-12-07
;  PRIOR APPLICATION NUMBER: US 60/169,340
;  PRIOR FILING DATE: 1999-12-07
;  NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 1578
;   LENGTH: 133
;   TYPE: PRT
;   ORGANISM: Oryza sativa
US-09-732-210-1578

  Query Match             68.6%;  Score 35;  DB 2;  Length 133;
  Best Local Similarity   75.0%;  Pred. No. 90;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 IRCINCQK 9
              ||| || |
Db         21 IRCSNCAK 28


RESULT 42
PCT-US96-02331-13
; Sequence 13, Application PC/TUS9602331
;  GENERAL INFORMATION:
;    APPLICANT:  The Board of Trustees of the Leland Stanford Junior
;    APPLICANT:  University
;    APPLICANT:  Board of Reagents, The University of Texas System
;    TITLE OF INVENTION:  Methods and Compositions for Altering
;    TITLE OF INVENTION:  Sexual Behavior
;    NUMBER OF SEQUENCES:  15
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Dehlinger & Associates
;      STREET:  350 Cambridge Avenue, Suite 250
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94306
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
```

```
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  PCT/US96/02331
;       FILING DATE:  09-FEB-1996
;       CLASSIFICATION:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 08/386,495
;       FILING DATE:  10-FEB-1995
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Sholtz, Charles K.
;       REGISTRATION NUMBER:  38,615
;       REFERENCE/DOCKET NUMBER:  8600-0153.41
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (415) 324-0880
;       TELEFAX:  (415) 324-0960
;   INFORMATION FOR SEQ ID NO:  13:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  340 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
PCT-US96-02331-13

  Query Match             68.6%;  Score 35;  DB 4;  Length 340;
  Best Local Similarity   55.6%;  Pred. No. 2.3e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              | ||::| |
Db        278 LYRCVSCNK 286


RESULT 43
US-10-290-579A-175
; Sequence 175, Application US/10290579A
; Patent No. 6897301
; GENERAL INFORMATION:
;  APPLICANT: Hahn, Beatrice
;  APPLICANT:  Gao, Feng
;  APPLICANT:  Shaw, George
;  TITLE OF INVENTION: CLONES AND SEQUENCES FOR NON-SUBTYPE B ISOLATES OF HUMAN
;  TITLE OF INVENTION:  IMMUNODEFICIENCY VIRUS TYPE 1
;  FILE REFERENCE: D6287D
;  CURRENT APPLICATION NUMBER: US/10/290,579A
;  CURRENT FILING DATE:  2002-11-08
;  PRIOR APPLICATION NUMBER: US 09/184,418
;  PRIOR FILING DATE: 1999-11-02
;  NUMBER OF SEQ ID NOS: 270
; SEQ ID NO 175
;   LENGTH: 494
;   TYPE: PRT
;   ORGANISM: Human immunodeficiency virus type 1
;   FEATURE:
;   OTHER INFORMATION: isolate=92RW009.6; gene=gag
US-10-290-579A-175

  Query Match             68.6%;  Score 35;  DB 2;  Length 494;
  Best Local Similarity   55.6%;  Pred. No. 3.3e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              :|:| || |
Db        386 IIKCFNCGK 394


RESULT 44
US-10-290-579A-173
; Sequence 173, Application US/10290579A
; Patent No. 6897301
; GENERAL INFORMATION:
;  APPLICANT: Hahn, Beatrice
;  APPLICANT:  Gao, Feng
;  APPLICANT:  Shaw, George
;  TITLE OF INVENTION: CLONES AND SEQUENCES FOR NON-SUBTYPE B ISOLATES OF HUMAN
;  TITLE OF INVENTION:  IMMUNODEFICIENCY VIRUS TYPE 1
;  FILE REFERENCE: D6287D
;  CURRENT APPLICATION NUMBER: US/10/290,579A
;  CURRENT FILING DATE:  2002-11-08
;  PRIOR APPLICATION NUMBER: US 09/184,418
;  PRIOR FILING DATE: 1999-11-02
;  NUMBER OF SEQ ID NOS: 270
; SEQ ID NO 173
;   LENGTH: 497
;   TYPE: PRT
;   ORGANISM: Human immunodeficiency virus type 1
;   FEATURE:
;   OTHER INFORMATION: isolate=92NG083.2; gene=gag
US-10-290-579A-173

  Query Match             68.6%;  Score 35;  DB 2;  Length 497;
  Best Local Similarity   55.6%;  Pred. No. 3.3e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              :|:| || |
Db        390 IIKCFNCGK 398


RESULT 45
PCT-US96-02331-15
; Sequence 15, Application PC/TUS9602331
;  GENERAL INFORMATION:
;    APPLICANT:  The Board of Trustees of the Leland Stanford Junior
;    APPLICANT:  University
;    APPLICANT:  Board of Reagents, The University of Texas System
;    TITLE OF INVENTION:  Methods and Compositions for Altering
;    TITLE OF INVENTION:  Sexual Behavior
;    NUMBER OF SEQUENCES:  15
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Dehlinger & Associates
;      STREET:  350 Cambridge Avenue, Suite 250
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94306
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US96/02331
;      FILING DATE:  09-FEB-1996
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/386,495
;      FILING DATE:  10-FEB-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Sholtz, Charles K.
;      REGISTRATION NUMBER:  38,615
;      REFERENCE/DOCKET NUMBER:  8600-0153.41
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 324-0880
;      TELEFAX:  (415) 324-0960
;  INFORMATION FOR SEQ ID NO:  15:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  842 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
PCT-US96-02331-15

  Query Match             68.6%;  Score 35;  DB 4;  Length 842;
  Best Local Similarity   55.6%;  Pred. No. 5.5e+02;
```

```
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              | ||::| |
Db        780 LYRCVSCNK 788


RESULT 46
US-09-057-486-2
; Sequence 2, Application US/09057486B
; Patent No. 6171588
; GENERAL INFORMATION:
;  APPLICANT: Carron, Christopher P
;  APPLICANT: Meyer, Debra M
;  APPLICANT: Nikols, G. Allan
;  TITLE OF INVENTION: Anti-alpha (v)-beta(3) Integrin Antibody Antagonists
;  FILE REFERENCE: 09/057,486 sequence listing
;  CURRENT APPLICATION NUMBER: US/09/057,486B
;  CURRENT FILING DATE: 1998-04-09
;  EARLIER APPLICATION NUMBER: US 60/043,853
;  EARLIER FILING DATE: 1997-04-11
;  NUMBER OF SEQ ID NOS: 3
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 35
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Nucleocapsid
;   OTHER INFORMATION: protein 7 of HIV-1  fragment
;   FEATURE:
;   NAME/KEY: ZN_FING
;   LOCATION: (15)..(28)
;  PUBLICATION INFORMATION:
;   JOURNAL: J. Mol. Med.
;   VOLUME: 76
;   PAGES: 126-132
;   DATE: 1998
US-09-057-486-2

  Query Match             66.7%;  Score 34;  DB 2;  Length 35;
  Best Local Similarity   44.4%;  Pred. No. 36;
  Matches    4;  Conservative    3;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              :::| || |
Db         12 MVKCFNCGK 20


RESULT 47
US-09-057-486-1
; Sequence 1, Application US/09057486B
; Patent No. 6171588
; GENERAL INFORMATION:
;  APPLICANT: Carron, Christopher P
;  APPLICANT: Meyer, Debra M
;  APPLICANT: Nikols, G. Allan
;  TITLE OF INVENTION: Anti-alpha (v)-beta(3) Integrin Antibody Antagonists
;  FILE REFERENCE: 09/057,486 sequence listing
;  CURRENT APPLICATION NUMBER: US/09/057,486B
;  CURRENT FILING DATE: 1998-04-09
;  EARLIER APPLICATION NUMBER: US 60/043,853
;  EARLIER FILING DATE: 1997-04-11
;  NUMBER OF SEQ ID NOS: 3
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 55
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Nucleocapsid
;   OTHER INFORMATION: protein 7 of HIV-1
;   FEATURE:
;   NAME/KEY: ZN_FING
;   LOCATION: (15)..(28)
;   FEATURE:
;   NAME/KEY: ZN_FING
;   LOCATION: (36)..(49)
;  PUBLICATION INFORMATION:
;   JOURNAL: J. Mol. Med.
;   VOLUME: 76
;   PAGES: 126-132
;   DATE: 1998
US-09-057-486-1

  Query Match             66.7%;  Score 34;  DB 2;  Length 55;
  Best Local Similarity   44.4%;  Pred. No. 55;
  Matches    4;  Conservative    3;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              :::| || |
Db         12 MVKCFNCGK 20


RESULT 48
US-09-930-181-6
; Sequence 6, Application US/09930181
; Patent No. 6455292
; GENERAL INFORMATION:
;  APPLICANT: OriGene Technologies
;  TITLE OF INVENTION: Full-Length Serine Protein Kinase in Brain and Pancreas
;  FILE REFERENCE: 16U 101 V1
;  CURRENT APPLICATION NUMBER: US/09/930,181
;  CURRENT FILING DATE:  2001-08-16
;  NUMBER OF SEQ ID NOS: 18
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
;   LENGTH: 71
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-930-181-6

  Query Match             66.7%;  Score 34;  DB 2;  Length 71;
  Best Local Similarity   50.0%;  Pred. No. 71;
  Matches    4;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 IRCINCQK 9
              : |: |||
Db         37 VHCVTCQK 44


RESULT 49
US-09-107-532A-4927
; Sequence 4927, Application US/09107532A
; Patent No. 6583275
;   GENERAL INFORMATION:
;        APPLICANT: Lynn A Doucette-Stamm  and David Bush
;        TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;                            ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
;        NUMBER OF SEQUENCES: 7310
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;             STREET: 100 Beaver Street
;             CITY: Waltham
;             STATE: Massachusetts
;             COUNTRY: USA
;             ZIP: 02354
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: CD/ROM ISO9660
;             COMPUTER: PC
;             OPERATING SYSTEM: <Unknown>
;             SOFTWARE: ASCII
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/107,532A
;             FILING DATE: 30-Jun-1998
;        PRIOR APPLICATION DATA:
```

```
;              APPLICATION NUMBER: 60/085,598
;              FILING DATE: 14 May 1998
;              APPLICATION NUMBER: 60/051571
;              FILING DATE: July 2, 1997
;         ATTORNEY/AGENT INFORMATION:
;              NAME: Ariniello, Pamela Deneke
;              REGISTRATION NUMBER: 40,489
;              REFERENCE/DOCKET NUMBER: GTC-012
;         TELECOMMUNICATION INFORMATION:
;              TELEPHONE: (781)893-5007
;              TELEFAX: (781)893-8277
;    INFORMATION FOR SEQ ID NO: 4927:
;         SEQUENCE CHARACTERISTICS:
;              LENGTH: 72 amino acids
;              TYPE: amino acid
;              TOPOLOGY: linear
;         MOLECULE TYPE: protein
;         HYPOTHETICAL: YES
;         ORIGINAL SOURCE:
;              ORGANISM: Enterococcus faecium
;         FEATURE:
;              NAME/KEY:  misc_feature
;              LOCATION: (B) LOCATION 1...72
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; Patent No. 6783961
; GENERAL INFORMATION:
;  APPLICANT: Dumas Milne Edwards, J.B.
;  APPLICANT:  Duclert, A.
;  APPLICANT:  Giordano, J.Y.
;  TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
;  FILE REFERENCE: 59.US2.REG
;  CURRENT APPLICATION NUMBER: US/09/513,999C
;  CURRENT FILING DATE:  2000-02-24
;  PRIOR APPLICATION NUMBER: US 60/122,487
;  PRIOR FILING DATE: 1999-02-26
;  NUMBER OF SEQ ID NOS: 36681
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;   LOCATION: 67
;   OTHER INFORMATION: Xaa=Ile or Met
US-09-513-999C-6001

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OM protein - protein search, using sw model

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Listing first 1000 summaries

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| 225 | 34 | 66.7 | 492 | 3 | US-09-991-258-5 | Sequence 5, Appli |
| 226 | 34 | 66.7 | 492 | 3 | US-09-899-575-17 | Sequence 17, Appl |
| 227 | 34 | 66.7 | 492 | 4 | US-10-003-035-18 | Sequence 18, Appl |
| 228 | 34 | 66.7 | 492 | 4 | US-10-286-332A-18 | Sequence 18, Appl |
| 229 | 34 | 66.7 | 492 | 4 | US-10-280-915-18 | Sequence 18, Appl |
| 230 | 34 | 66.7 | 492 | 4 | US-10-332-413-2 | Sequence 2, Appli |
| 231 | 34 | 66.7 | 492 | 4 | US-10-286-332A-18 | Sequence 18, Appl |
| 232 | 34 | 66.7 | 492 | 5 | US-10-280-915-18 | Sequence 18, Appl |
| 233 | 34 | 66.7 | 492 | 5 | US-10-929-234-5 | Sequence 5, Appli |
| 234 | 34 | 66.7 | 492 | 5 | US-10-780-507-96 | Sequence 96, Appl |
| 235 | 34 | 66.7 | 492 | 5 | US-10-780-507-97 | Sequence 97, Appl |
| 236 | 34 | 66.7 | 492 | 5 | US-10-494-131-36 | Sequence 36, Appl |
| 237 | 34 | 66.7 | 492 | 6 | US-11-135-597-172 | Sequence 172, App |
| 238 | 34 | 66.7 | 493 | 4 | US-10-339-217-111 | Sequence 111, App |
| 239 | 34 | 66.7 | 493 | 5 | US-10-780-507-98 | Sequence 98, Appl |
| 240 | 34 | 66.7 | 494 | 4 | US-10-339-217-126 | Sequence 126, App |
| 241 | 34 | 66.7 | 494 | 6 | US-11-135-597-179 | Sequence 179, App |
| 242 | 34 | 66.7 | 496 | 4 | US-10-339-217-108 | Sequence 108, App |
| 243 | 34 | 66.7 | 497 | 4 | US-10-339-217-107 | Sequence 107, App |
| 244 | 34 | 66.7 | 497 | 5 | US-10-800-023-21 | Sequence 21, Appl |
| 245 | 34 | 66.7 | 499 | 5 | US-10-844-658-2 | Sequence 2, Appli |
| 246 | 34 | 66.7 | 500 | 3 | US-09-968-355-26 | Sequence 26, Appl |

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| 247 | 34 | 66.7 | 500 | 4 | US-10-097-534-32 | Sequence 32, Appl |
| 248 | 34 | 66.7 | 500 | 4 | US-10-059-271-85 | Sequence 85, Appl |
| 249 | 34 | 66.7 | 500 | 4 | US-10-102-622-4 | Sequence 4, Appli |
| 250 | 34 | 66.7 | 500 | 4 | US-10-339-217-18 | Sequence 18, Appl |
| 251 | 34 | 66.7 | 500 | 5 | US-10-844-658-6 | Sequence 6, Appli |
| 252 | 34 | 66.7 | 503 | 4 | US-10-339-217-127 | Sequence 127, App |
| 253 | 34 | 66.7 | 512 | 5 | US-10-634-165-8 | Sequence 8, Appli |
| 254 | 34 | 66.7 | 515 | 3 | US-09-968-355-20 | Sequence 20, Appl |
| 255 | 34 | 66.7 | 531 | 3 | US-09-968-355-23 | Sequence 23, Appl |
| 256 | 34 | 66.7 | 567 | 4 | US-10-425-115-231886 | Sequence 231886, |
| 257 | 34 | 66.7 | 569 | 4 | US-10-437-963-108731 | Sequence 108731, |
| 258 | 34 | 66.7 | 575 | 4 | US-10-425-114-60747 | Sequence 60747, A |
| 259 | 34 | 66.7 | 583 | 3 | US-09-968-355-17 | Sequence 17, Appl |
| 260 | 34 | 66.7 | 584 | 3 | US-09-842-307-2 | Sequence 2, Appli |
| 261 | 34 | 66.7 | 584 | 4 | US-10-436-919-2 | Sequence 2, Appli |
| 262 | 34 | 66.7 | 592 | 4 | US-10-620-052A-2 | Sequence 2, Appli |
| 263 | 34 | 66.7 | 592 | 5 | US-10-842-142-2 | Sequence 2, Appli |
| 264 | 34 | 66.7 | 599 | 4 | US-10-003-035-59 | Sequence 59, Appl |
| 265 | 34 | 66.7 | 599 | 4 | US-10-286-332A-59 | Sequence 59, Appl |
| 266 | 34 | 66.7 | 599 | 4 | US-10-280-915-59 | Sequence 59, Appl |
| 267 | 34 | 66.7 | 599 | 4 | US-10-286-332A-59 | Sequence 59, Appl |
| 268 | 34 | 66.7 | 599 | 5 | US-10-280-915-59 | Sequence 59, Appl |
| 269 | 34 | 66.7 | 631 | 4 | US-10-332-413-8 | Sequence 8, Appli |
| 270 | 34 | 66.7 | 637 | 4 | US-10-424-599-248810 | Sequence 248810, |
| 271 | 34 | 66.7 | 662 | 4 | US-10-425-115-231887 | Sequence 231887, |
| 272 | 34 | 66.7 | 664 | 4 | US-10-288-798-18 | Sequence 18, Appl |
| 273 | 34 | 66.7 | 664 | 4 | US-10-362-892-18 | Sequence 18, Appl |
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| 278 | 34 | 66.7 | 674 | 4 | US-10-283-247-2 | Sequence 2, Appli |
| 279 | 34 | 66.7 | 674 | 4 | US-10-283-247-7 | Sequence 7, Appli |
| 280 | 34 | 66.7 | 674 | 4 | US-10-283-247-8 | Sequence 8, Appli |
| 281 | 34 | 66.7 | 674 | 4 | US-10-618-941-78 | Sequence 78, Appl |
| 282 | 34 | 66.7 | 674 | 6 | US-11-143-787-2 | Sequence 2, Appli |
| 283 | 34 | 66.7 | 674 | 6 | US-11-143-787-7 | Sequence 7, Appli |
| 284 | 34 | 66.7 | 674 | 6 | US-11-143-787-8 | Sequence 8, Appli |
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| 289 | 34 | 66.7 | 773 | 4 | US-10-425-115-294595 | Sequence 294595, |
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| 293 | 34 | 66.7 | 1048 | 4 | US-10-437-963-138093 | Sequence 138093, |
| 294 | 34 | 66.7 | 1117 | 4 | US-10-250-615-12 | Sequence 12, Appl |
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| 296 | 34 | 66.7 | 1228 | 5 | US-10-494-131-30 | Sequence 30, Appl |
| 297 | 34 | 66.7 | 1286 | 4 | US-10-424-599-151734 | Sequence 151734, |
| 298 | 34 | 66.7 | 1292 | 4 | US-10-424-599-151745 | Sequence 151745, |
| 299 | 34 | 66.7 | 1303 | 4 | US-10-424-599-151756 | Sequence 151756, |
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| 305 | 33 | 64.7 | 50 | 4 | US-10-339-217-1 | Sequence 1, Appli |
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| 307 | 33 | 64.7 | 59 | 4 | US-10-044-359-6 | Sequence 6, Appli |
| 308 | 33 | 64.7 | 60 | 4 | US-10-424-599-191604 | Sequence 191604, |
| 309 | 33 | 64.7 | 64 | 4 | US-10-424-599-166351 | Sequence 166351, |
| 310 | 33 | 64.7 | 64 | 4 | US-10-425-115-304606 | Sequence 304606, |
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| 312 | 33 | 64.7 | 65 | 4 | US-10-282-122A-74302 | Sequence 74302, A |
| 313 | 33 | 64.7 | 65 | 4 | US-10-437-963-143894 | Sequence 143894, |
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| 315 | 33 | 64.7 | 69 | 4 | US-10-425-115-190796 | Sequence 190796, |
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| 317 | 33 | 64.7 | 74 | 5 | US-10-450-763-31255 | Sequence 31255, A |
| 318 | 33 | 64.7 | 77 | 3 | US-09-840-795-17 | Sequence 17, Appl |
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| 320 | 33 | 64.7 | 79 | 5 | US-10-450-763-39786 | Sequence 39786, A |
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| 322 | 33 | 64.7 | 79 | 5 | US-10-450-763-57613 | Sequence 57613, A |
| 323 | 33 | 64.7 | 80 | 4 | US-10-437-963-136817 | Sequence 136817, |
| 324 | 33 | 64.7 | 86 | 4 | US-10-282-122A-78497 | Sequence 78497, A |
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| 334 | 33 | 64.7 | 109 | 4 | US-10-425-114-44429 | Sequence 44429, A |
| 335 | 33 | 64.7 | 111 | 4 | US-10-425-115-321027 | Sequence 321027, |
| 336 | 33 | 64.7 | 114 | 4 | US-10-424-599-153296 | Sequence 153296, |
| 337 | 33 | 64.7 | 114 | 4 | US-10-425-115-344978 | Sequence 344978, |
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| 339 | 33 | 64.7 | 115 | 4 | US-10-408-765A-2413 | Sequence 2413, Ap |
| 340 | 33 | 64.7 | 117 | 4 | US-10-264-049-4110 | Sequence 4110, Ap |
| 341 | 33 | 64.7 | 117 | 4 | US-10-767-701-31908 | Sequence 31908, A |
| 342 | 33 | 64.7 | 117 | 4 | US-10-425-115-185441 | Sequence 185441, |
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| 344 | 33 | 64.7 | 122 | 4 | US-10-425-115-217490 | Sequence 217490, |
| 345 | 33 | 64.7 | 122 | 4 | US-10-425-115-273914 | Sequence 273914, |
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| 347 | 33 | 64.7 | 124 | 4 | US-10-425-115-211637 | Sequence 211637, |
| 348 | 33 | 64.7 | 127 | 3 | US-09-778-927A-69 | Sequence 69, Appl |
| 349 | 33 | 64.7 | 132 | 3 | US-09-840-795-15 | Sequence 15, Appl |
| 350 | 33 | 64.7 | 134 | 4 | US-10-424-599-263942 | Sequence 263942, |
| 351 | 33 | 64.7 | 136 | 4 | US-10-424-599-261511 | Sequence 261511, |
| 352 | 33 | 64.7 | 136 | 4 | US-10-425-115-350719 | Sequence 350719, |
| 353 | 33 | 64.7 | 137 | 4 | US-10-259-165-158 | Sequence 158, App |
| 354 | 33 | 64.7 | 137 | 4 | US-10-264-237-1458 | Sequence 1458, Ap |
| 355 | 33 | 64.7 | 139 | 4 | US-10-339-217-24 | Sequence 24, Appl |
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| 357 | 33 | 64.7 | 149 | 4 | US-10-264-049-2541 | Sequence 2541, Ap |
| 358 | 33 | 64.7 | 150 | 6 | US-11-021-949-27 | Sequence 27, Appl |
| 359 | 33 | 64.7 | 151 | 4 | US-10-369-493-18168 | Sequence 18168, A |
| 360 | 33 | 64.7 | 151 | 6 | US-11-021-949-26 | Sequence 26, Appl |
| 361 | 33 | 64.7 | 152 | 4 | US-10-424-599-213334 | Sequence 213334, |
| 362 | 33 | 64.7 | 152 | 4 | US-10-767-701-36369 | Sequence 36369, A |
| 363 | 33 | 64.7 | 154 | 5 | US-10-450-763-41772 | Sequence 41772, A |
| 364 | 33 | 64.7 | 155 | 4 | US-10-424-599-215821 | Sequence 215821, |
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| 367 | 33 | 64.7 | 162 | 3 | US-09-798-789-17 | Sequence 17, Appl |
| 368 | 33 | 64.7 | 162 | 4 | US-10-218-102-427 | Sequence 427, App |
| 369 | 33 | 64.7 | 163 | 4 | US-10-437-963-134666 | Sequence 134666, |
| 370 | 33 | 64.7 | 165 | 3 | US-09-867-550-618 | Sequence 618, App |
| 371 | 33 | 64.7 | 167 | 4 | US-10-437-963-176176 | Sequence 176176, |
| 372 | 33 | 64.7 | 168 | 4 | US-10-424-599-143258 | Sequence 143258, |
| 373 | 33 | 64.7 | 169 | 4 | US-10-437-963-141323 | Sequence 141323, |
| 374 | 33 | 64.7 | 173 | 4 | US-10-660-968-38 | Sequence 38, Appl |
| 375 | 33 | 64.7 | 176 | 4 | US-10-424-599-245767 | Sequence 245767, |
| 376 | 33 | 64.7 | 177 | 4 | US-10-424-599-215817 | Sequence 215817, |
| 377 | 33 | 64.7 | 178 | 4 | US-10-339-217-139 | Sequence 139, App |
| 378 | 33 | 64.7 | 178 | 4 | US-10-425-115-236628 | Sequence 236628, |
| 379 | 33 | 64.7 | 192 | 3 | US-09-925-301-1067 | Sequence 1067, Ap |
| 380 | 33 | 64.7 | 192 | 4 | US-10-106-698-6178 | Sequence 6178, Ap |
| 381 | 33 | 64.7 | 195 | 4 | US-10-101-464A-554 | Sequence 554, App |
| 382 | 33 | 64.7 | 195 | 5 | US-10-864-252-554 | Sequence 554, App |
| 383 | 33 | 64.7 | 196 | 4 | US-10-156-761-13403 | Sequence 13403, A |
| 384 | 33 | 64.7 | 197 | 3 | US-09-796-753-10 | Sequence 10, Appl |
| 385 | 33 | 64.7 | 202 | 4 | US-10-424-599-200132 | Sequence 200132, |
| 386 | 33 | 64.7 | 203 | 4 | US-10-425-114-66790 | Sequence 66790, A |
| 387 | 33 | 64.7 | 203 | 4 | US-10-437-963-151233 | Sequence 151233, |
| 388 | 33 | 64.7 | 204 | 5 | US-10-490-381-8 | Sequence 8, Appli |
| 389 | 33 | 64.7 | 206 | 3 | US-09-796-753-8 | Sequence 8, Appli |
| 390 | 33 | 64.7 | 213 | 3 | US-09-198-559-3 | Sequence 3, Appli |
| 391 | 33 | 64.7 | 213 | 4 | US-10-091-613-3 | Sequence 3, Appli |
| 392 | 33 | 64.7 | 227 | 5 | US-10-450-763-57647 | Sequence 57647, A |

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| 394 | 33 | 64.7 | 231 | 3 | US-09-840-795-19 | Sequence 19, Appl |
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| 396 | 33 | 64.7 | 233 | 3 | US-09-890-688-82 | Sequence 82, Appl |
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| 411 | 33 | 64.7 | 287 | 4 | US-10-437-963-147431 | Sequence 147431, |
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| 413 | 33 | 64.7 | 297 | 4 | US-10-660-968-27 | Sequence 27, Appl |
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| 451 | 33 | 64.7 | 497 | 4 | US-10-339-217-129 | Sequence 129, App |
| 452 | 33 | 64.7 | 497 | 6 | US-11-135-597-176 | Sequence 176, App |
| 453 | 33 | 64.7 | 498 | 3 | US-09-886-156-59 | Sequence 59, Appl |
| 454 | 33 | 64.7 | 498 | 3 | US-09-886-156-60 | Sequence 60, Appl |
| 455 | 33 | 64.7 | 498 | 3 | US-09-886-150-59 | Sequence 59, Appl |
| 456 | 33 | 64.7 | 498 | 3 | US-09-886-150-60 | Sequence 60, Appl |
| 457 | 33 | 64.7 | 498 | 3 | US-09-886-149-59 | Sequence 59, Appl |
| 458 | 33 | 64.7 | 498 | 3 | US-09-886-149-60 | Sequence 60, Appl |
| 459 | 33 | 64.7 | 498 | 3 | US-09-886-159-59 | Sequence 59, Appl |
| 460 | 33 | 64.7 | 498 | 3 | US-09-886-159-60 | Sequence 60, Appl |
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| 462 | 33 | 64.7 | 498 | 4 | US-10-326-090-60 | Sequence 60, Appl |
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| 467 | 33 | 64.7 | 500 | 6 | US-11-135-597-178 | Sequence 178, App |
| 468 | 33 | 64.7 | 501 | 4 | US-10-339-217-136 | Sequence 136, App |
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| 477 | 33 | 64.7 | 567 | 5 | US-10-480-068-25 | Sequence 25, Appl |
| 478 | 33 | 64.7 | 587 | 4 | US-10-259-165-134 | Sequence 134, App |
| 479 | 33 | 64.7 | 587 | 4 | US-10-259-165-464 | Sequence 464, App |
| 480 | 33 | 64.7 | 608 | 4 | US-10-411-910A-16 | Sequence 16, Appl |
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| 497 | 33 | 64.7 | 976 | 4 | US-10-149-310-182 | Sequence 182, App |
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| 611 | 32 | 62.7 | 300 | 5 | US-10-484-784-20 | Sequence 20, Appl |
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| 693 | 32 | 62.7 | 447 | 6 | US-11-145-498-12 | Sequence 12, Appl |
| 694 | 32 | 62.7 | 447 | 6 | US-11-145-193-12 | Sequence 12, Appl |
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| 702 | 32 | 62.7 | 452 | 6 | US-11-145-498-8 | Sequence 8, Appli |
| 703 | 32 | 62.7 | 452 | 6 | US-11-145-193-8 | Sequence 8, Appli |
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| 718 | 32 | 62.7 | 492 | 4 | US-10-339-217-109 | Sequence 109, App |
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| 731 | 32 | 62.7 | 500 | 5 | US-10-780-507-49 | Sequence 49, Appl |
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| 747 | 32 | 62.7 | 596 | 5 | US-10-739-930-11023 | Sequence 11023, A |
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| 754 | 32 | 62.7 | 653 | 4 | US-10-389-566-805 | Sequence 805, App |
| 755 | 32 | 62.7 | 654 | 4 | US-10-087-192-1812 | Sequence 1812, Ap |
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| 757 | 32 | 62.7 | 698 | 4 | US-10-389-566-694 | Sequence 694, App |
| 758 | 32 | 62.7 | 698 | 5 | US-10-510-812-6 | Sequence 6, Appli |
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| 762 | 32 | 62.7 | 710 | 6 | US-11-097-143-4215 | Sequence 4215, Ap |
| 763 | 32 | 62.7 | 710 | 6 | US-11-097-143-28806 | Sequence 28806, A |
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| 765 | 32 | 62.7 | 711 | 4 | US-10-282-122A-43988 | Sequence 43988, A |
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| 771 | 32 | 62.7 | 788 | 3 | US-09-815-242-11524 | Sequence 11524, A |
| 772 | 32 | 62.7 | 788 | 4 | US-10-282-122A-58768 | Sequence 58768, A |
| 773 | 32 | 62.7 | 788 | 4 | US-10-335-977-7237 | Sequence 7237, Ap |
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| 777 | 32 | 62.7 | 842 | 5 | US-10-476-615-40 | Sequence 40, Appl |
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| 779 | 32 | 62.7 | 912 | 4 | US-10-389-566-693 | Sequence 693, App |
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| 791 | 32 | 62.7 | 1052 | 5 | US-10-450-763-59385 | Sequence 59385, A |
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| 793 | 32 | 62.7 | 1064 | 4 | US-10-138-098-42 | Sequence 42, Appl |
| 794 | 32 | 62.7 | 1064 | 4 | US-10-138-098-43 | Sequence 43, Appl |
| 795 | 32 | 62.7 | 1064 | 4 | US-10-138-098-44 | Sequence 44, Appl |
| 796 | 32 | 62.7 | 1064 | 5 | US-10-476-615-41 | Sequence 41, Appl |
| 797 | 32 | 62.7 | 1064 | 5 | US-10-476-615-42 | Sequence 42, Appl |
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| 822 | 32 | 62.7 | 1713 | 4 | US-10-171-311-113 | Sequence 113, App |
| 823 | 32 | 62.7 | 1713 | 4 | US-10-372-683-10 | Sequence 10, Appl |
| 824 | 32 | 62.7 | 1713 | 4 | US-10-603-725-6 | Sequence 6, Appli |
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|---|---|---|---|---|---|---|
| 977 | 31 | 60.8 | 309 | 4 | US-10-282-122A-78465 | Sequence 78465, A |
| 978 | 31 | 60.8 | 313 | 6 | US-11-097-143-7131 | Sequence 7131, Ap |
| 979 | 31 | 60.8 | 316 | 4 | US-10-282-122A-65783 | Sequence 65783, A |
| 980 | 31 | 60.8 | 327 | 3 | US-09-815-242-11463 | Sequence 11463, A |
| 981 | 31 | 60.8 | 327 | 3 | US-09-815-242-11625 | Sequence 11625, A |
| 982 | 31 | 60.8 | 331 | 5 | US-10-450-763-38913 | Sequence 38913, A |
| 983 | 31 | 60.8 | 335 | 4 | US-10-282-122A-65867 | Sequence 65867, A |
| 984 | 31 | 60.8 | 335 | 4 | US-10-282-122A-65879 | Sequence 65879, A |
| 985 | 31 | 60.8 | 335 | 4 | US-10-282-122A-65884 | Sequence 65884, A |
| 986 | 31 | 60.8 | 343 | 3 | US-09-815-242-14110 | Sequence 14110, A |
| 987 | 31 | 60.8 | 345 | 3 | US-09-815-242-11068 | Sequence 11068, A |
| 988 | 31 | 60.8 | 345 | 5 | US-10-450-763-45467 | Sequence 45467, A |
| 989 | 31 | 60.8 | 351 | 4 | US-10-744-572-40 | Sequence 40, Appl |
| 990 | 31 | 60.8 | 351 | 4 | US-10-744-572-47 | Sequence 47, Appl |
| 991 | 31 | 60.8 | 355 | 4 | US-10-437-963-126720 | Sequence 126720, |
| 992 | 31 | 60.8 | 360 | 4 | US-10-041-615-34 | Sequence 34, Appl |
| 993 | 31 | 60.8 | 361 | 4 | US-10-369-493-18212 | Sequence 18212, A |
| 994 | 31 | 60.8 | 362 | 4 | US-10-015-115-72 | Sequence 72, Appl |
| 995 | 31 | 60.8 | 366 | 4 | US-10-156-761-14317 | Sequence 14317, A |
| 996 | 31 | 60.8 | 371 | 4 | US-10-437-963-146358 | Sequence 146358, |
| 997 | 31 | 60.8 | 377 | 5 | US-10-450-763-45041 | Sequence 45041, A |
| 998 | 31 | 60.8 | 380 | 5 | US-10-732-923-3018 | Sequence 3018, Ap |
| 999 | 31 | 60.8 | 383 | 5 | US-10-732-923-3017 | Sequence 3017, Ap |
| 1000 | 31 | 60.8 | 390 | 4 | US-10-112-944-321 | Sequence 321, App |

ALIGNMENTS

RESULT 1
US-11-021-949-9
; Sequence 9, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 12
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-9

Query Match 100.0%; Score 51; DB 6; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LIRCINCQK 9
||||||||| 
Db 2 LIRCINCQK 10

RESULT 2
US-10-476-570-39
; Sequence 39, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 101-115
US-10-476-570-39

Query Match 100.0%; Score 51; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LIRCINCQK 9
||||||||| 
Db 7 LIRCINCQK 15

RESULT 3
US-10-484-063-8
; Sequence 8, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-8

Query Match 100.0%; Score 51; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.26;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LIRCINCQK 9
||||||||| 
Db 11 LIRCINCQK 19

RESULT 4
US-10-476-570-60
; Sequence 60, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra

; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 60
; LENGTH: 22
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 105-126
US-10-476-570-60

Query Match 100.0%; Score 51; DB 4; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.28;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LIRCINCQK 9
||||||||| 
Db 3 LIRCINCQK 11

RESULT 5
US-11-021-949-3
; Sequence 3, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 23
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-3

Query Match 100.0%; Score 51; DB 6; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.29;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LIRCINCQK 9
||||||||| 
Db 2 LIRCINCQK 10

RESULT 6
US-10-476-570-13
; Sequence 13, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 29
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 91-119
US-10-476-570-13

Query Match 100.0%; Score 51; DB 4; Length 29;
Best Local Similarity 100.0%; Pred. No. 0.35;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LIRCINCQK 9
||||||||| 
Db 17 LIRCINCQK 25

RESULT 7
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
; APPLICANT: N.V. Antwerps Innovatiecentrum
; TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
; TITLE OF INVENTION: Polynucleotides by Electroporation
; FILE REFERENCE: 021505wo/JH/ml
; CURRENT APPLICATION NUMBER: US/10/177,390
; CURRENT FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-177-390-6

Query Match 100.0%; Score 51; DB 4; Length 151;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LIRCINCQK 9
||||||||| 
Db 100 LIRCINCQK 108

RESULT 8
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19

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;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
;    LENGTH: 151
;    TYPE: PRT
;    ORGANISM: Human papillomavirus
US-10-484-063-20

  Query Match             100.0%;  Score 51;  DB 5;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 1.5;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        100 LIRCINCQK 108


RESULT 9
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
;    LENGTH: 151
;    TYPE: PRT
;    ORGANISM: Human papillomavirus type 16
US-10-484-063-27

  Query Match             100.0%;  Score 51;  DB 5;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 1.5;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        100 LIRCINCQK 108


RESULT 10
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
;    LENGTH: 158
;    TYPE: PRT
;    ORGANISM: Human Papillomavirus
US-10-858-384-2

  Query Match             100.0%;  Score 51;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 1.5;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        107 LIRCINCQK 115


RESULT 11
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
;  APPLICANT: Cuthill, Scott;
;  APPLICANT:  Jackson, Amanda;
;  APPLICANT:  Lewin, David A.;
;  APPLICANT:  Ooi, Chean Eng
;  TITLE OF INVENTION: Complexes and Methods of Using Same
;  FILE REFERENCE: 21402-559
;  CURRENT APPLICATION NUMBER: US/10/367,057
;  CURRENT FILING DATE:  2003-02-14
;  PRIOR APPLICATION NUMBER: 60/256,911
;  PRIOR FILING DATE: 2002-02-14
;  NUMBER OF SEQ ID NOS: 198
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 16
;    LENGTH: 158
;    TYPE: PRT
;    ORGANISM: Homo sapiens
US-10-367-057-16

  Query Match             100.0%;  Score 51;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 1.5;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        107 LIRCINCQK 115


RESULT 12
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
;    LENGTH: 158
;    TYPE: PRT
;    ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

  Query Match             100.0%;  Score 51;  DB 6;  Length 158;
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  Best Local Similarity   100.0%;  Pred. No. 1.5;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        107 LIRCINCQK 115


RESULT 13
US-10-472-724-2
; Sequence 2, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
;  APPLICANT: Cid-Arregui, Angel
;  APPLICANT:  Zur Hausen, Harald
;  TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
;  FILE REFERENCE: 4121-154
;  CURRENT APPLICATION NUMBER: US/10/472,724
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP02/03271
;  PRIOR FILING DATE: 2002-03-22
;  PRIOR APPLICATION NUMBER: EP 01107271.7
;  PRIOR FILING DATE: 2001-03-23
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
;   LENGTH: 171
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

  Query Match             100.0%;  Score 51;  DB 4;  Length 171;
  Best Local Similarity   100.0%;  Pred. No. 1.6;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        112 LIRCINCQK 120


RESULT 14
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
;  APPLICANT: KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE: 017753-122
;  CURRENT APPLICATION NUMBER: US/11/072,288
;  CURRENT FILING DATE:  2005-03-07
;  PRIOR APPLICATION NUMBER: US/09/462,993
;  PRIOR FILING DATE: 2000-04-17
;  PRIOR APPLICATION NUMBER: PCT/FR98/01576
;  PRIOR FILING DATE: 1998-07-17
;  PRIOR APPLICATION NUMBER: FR 97/09152
;  PRIOR FILING DATE: 1997-07-18
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

  Query Match             100.0%;  Score 51;  DB 6;  Length 243;
  Best Local Similarity   100.0%;  Pred. No. 2.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        135 LIRCINCQK 143


RESULT 15
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 51;  DB 3;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 2.4;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        107 LIRCINCQK 115


RESULT 16
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-4

  Query Match             100.0%;  Score 51;  DB 4;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 2.5;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
```

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Db        213 LIRCINCQK 221


RESULT 17
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-4

  Query Match            100.0%;  Score 51;  DB 5;  Length 273;
  Best Local Similarity  100.0%;  Pred. No. 2.5;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        213 LIRCINCQK 221


RESULT 18
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-10

  Query Match            100.0%;  Score 51;  DB 4;  Length 292;
  Best Local Similarity  100.0%;  Pred. No. 2.6;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        232 LIRCINCQK 240


RESULT 19
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
;   OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-10

  Query Match            100.0%;  Score 51;  DB 5;  Length 292;
  Best Local Similarity  100.0%;  Pred. No. 2.6;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        232 LIRCINCQK 240


RESULT 20
US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-6

  Query Match            100.0%;  Score 51;  DB 4;  Length 371;
  Best Local Similarity  100.0%;  Pred. No. 3.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy          1 LIRCINCQK 9
              |||||||||
Db        213 LIRCINCQK 221
```

RESULT 21
US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
; OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-6

Query Match 100.0%; Score 51; DB 5; Length 371;
Best Local Similarity 100.0%; Pred. No. 3.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 LIRCINCQK 9
              |||||||||
Db        213 LIRCINCQK 221
```

RESULT 22
US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-14

Query Match 100.0%; Score 51; DB 4; Length 390;
Best Local Similarity 100.0%; Pred. No. 3.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 LIRCINCQK 9
              |||||||||
Db        232 LIRCINCQK 240
```

RESULT 23
US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-14

Query Match 100.0%; Score 51; DB 5; Length 390;
Best Local Similarity 100.0%; Pred. No. 3.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 LIRCINCQK 9
              |||||||||
Db        232 LIRCINCQK 240
```

RESULT 24
US-11-021-949-14
; Sequence 14, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-14

Query Match 88.2%; Score 45; DB 6; Length 149;
Best Local Similarity 88.9%; Pred. No. 13;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 LIRCINCQK 9
              ||||| |||
Db        100 LIRCITCQK 108


RESULT 25
US-10-751-845-138
; Sequence 138, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 138
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-138

  Query Match             84.3%;  Score 43;  DB 5;  Length 10;
  Best Local Similarity   77.8%;  Pred. No. 2.6;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||: |||
Db          2 LIRCLRCQK 10


RESULT 26
US-11-021-949-10
; Sequence 10, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
;   LENGTH: 12
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-10

  Query Match             84.3%;  Score 43;  DB 6;  Length 12;
  Best Local Similarity   77.8%;  Pred. No. 3;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||: |||
Db          2 LIRCLRCQK 10


RESULT 27
US-11-021-949-61
; Sequence 61, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 61
;   LENGTH: 12
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-61

  Query Match             84.3%;  Score 43;  DB 6;  Length 12;
  Best Local Similarity   77.8%;  Pred. No. 3;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||: |||
Db          2 LIRCLRCQK 10


RESULT 28
US-11-021-949-4
; Sequence 4, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
;   LENGTH: 23
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-4

  Query Match             84.3%;  Score 43;  DB 6;  Length 23;
  Best Local Similarity   77.8%;  Pred. No. 5.3;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||: |||
Db          2 LIRCLRCQK 10


RESULT 29
US-11-021-949-58
; Sequence 58, Application US/11021949
```

```
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 58
;   LENGTH: 23
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-58

  Query Match             84.3%;  Score 43;  DB 6;  Length 23;
  Best Local Similarity   77.8%;  Pred. No. 5.3;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||: |||
Db          2 LIRCLRCQK 10


RESULT 30
US-10-751-845-153
; Sequence 153, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 153
;   LENGTH: 27
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-153

  Query Match             84.3%;  Score 43;  DB 5;  Length 27;
  Best Local Similarity   77.8%;  Pred. No. 6.1;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||: |||
Db         19 LIRCLRCQK 27


RESULT 31
US-10-751-845-159
; Sequence 159, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 159
;   LENGTH: 119
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-159

  Query Match             84.3%;  Score 43;  DB 5;  Length 119;
  Best Local Similarity   77.8%;  Pred. No. 22;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||: |||
Db         61 LIRCLRCQK 69


RESULT 32
US-10-800-023-27
; Sequence 27, Application US/10800023
; Publication No. US20040258688A1
; GENERAL INFORMATION:
;  APPLICANT: Steinman, Ralph
;  APPLICANT:  Nussenzweig, Michel
;  APPLICANT:  Hawiger, Daniel
;  APPLICANT:  Bonifaz, Laura
;  TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
;  TITLE OF INVENTION:  of the Immune Response Therefrom
;  FILE REFERENCE: 600-1-081CONCIP1
;  CURRENT APPLICATION NUMBER: US/10/800,023
;  CURRENT FILING DATE:  2004-03-14
;  PRIOR APPLICATION NUMBER: 09/925,284
;  PRIOR FILING DATE: 2001-08-09
;  PRIOR APPLICATION NUMBER: 09/586,704
;  PRIOR FILING DATE: 2000-06-05
;  PRIOR APPLICATION NUMBER: PCT/US96/01383
;  PRIOR FILING DATE: 1996-01-31
;  PRIOR APPLICATION NUMBER: 08/381,528
;  PRIOR FILING DATE: 1995-01-31
;  NUMBER OF SEQ ID NOS: 37
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 27
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus E6 protein
US-10-800-023-27

  Query Match             84.3%;  Score 43;  DB 5;  Length 158;
  Best Local Similarity   77.8%;  Pred. No. 28;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||: |||
Db        102 LIRCLRCQK 110


RESULT 33
US-11-021-949-28
; Sequence 28, Application US/11021949
; Publication No. US20050142541A1
```

```
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 28
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-28

  Query Match             84.3%;  Score 43;  DB 6;  Length 158;
  Best Local Similarity   77.8%;  Pred. No. 28;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||: |||
Db        102 LIRCLRCQK 110


RESULT 34
US-11-021-949-29
; Sequence 29, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 29
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-29

  Query Match             84.3%;  Score 43;  DB 6;  Length 158;
  Best Local Similarity   77.8%;  Pred. No. 28;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||: |||
Db        102 LIRCLRCQK 110


RESULT 35
US-10-472-724-6
; Sequence 6, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
;  APPLICANT: Cid-Arregui, Angel
;  APPLICANT:  Zur Hausen, Harald
;  TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
;  FILE REFERENCE: 4121-154
;  CURRENT APPLICATION NUMBER: US/10/472,724
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP02/03271
;  PRIOR FILING DATE: 2002-03-22
;  PRIOR APPLICATION NUMBER: EP 01107271.7
;  PRIOR FILING DATE: 2001-03-23
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic Construct
US-10-472-724-6

  Query Match             84.3%;  Score 43;  DB 4;  Length 172;
  Best Local Similarity   77.8%;  Pred. No. 30;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||: |||
Db        108 LIRCLRCQK 116


RESULT 36
US-10-751-845-157
; Sequence 157, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 157
;   LENGTH: 236
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157

  Query Match             84.3%;  Score 43;  DB 5;  Length 236;
  Best Local Similarity   77.8%;  Pred. No. 40;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||: |||
Db        178 LIRCLRCQK 186


RESULT 37
US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
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;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 158
;   LENGTH: 237
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158

  Query Match             84.3%;  Score 43;  DB 5;  Length 237;
  Best Local Similarity   77.8%;  Pred. No. 40;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||: |||
Db        179 LIRCLRCQK 187


RESULT 38
US-10-751-845-160
; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 160
;   LENGTH: 261
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160

  Query Match             84.3%;  Score 43;  DB 5;  Length 261;
  Best Local Similarity   77.8%;  Pred. No. 43;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||: |||
Db        203 LIRCLRCQK 211


RESULT 39
US-10-000-903-21
; Sequence 21, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 21
;   LENGTH: 278
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-21

  Query Match             84.3%;  Score 43;  DB 4;  Length 278;
  Best Local Similarity   77.8%;  Pred. No. 46;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||: |||
Db        213 LIRCLRCQK 221


RESULT 40
US-10-899-771-21
; Sequence 21, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 21
;   LENGTH: 278
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
;   OTHER INFORMATION: 18)
US-10-899-771-21

  Query Match             84.3%;  Score 43;  DB 5;  Length 278;
  Best Local Similarity   77.8%;  Pred. No. 46;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||: |||
Db        213 LIRCLRCQK 221


RESULT 41
US-10-000-903-23
; Sequence 23, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
```

; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-23

Query Match 84.3%; Score 43; DB 4; Length 383;
Best Local Similarity 77.8%; Pred. No. 60;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LIRCINCQK 9
||||: |||
Db 213 LIRCLRCQK 221

RESULT 42
US-10-899-771-23
; Sequence 23, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
; OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 18)
US-10-899-771-23

Query Match 84.3%; Score 43; DB 5; Length 383;
Best Local Similarity 77.8%; Pred. No. 60;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LIRCINCQK 9
||||: |||
Db 213 LIRCLRCQK 221

RESULT 43
US-11-021-949-18
; Sequence 18, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-18

Query Match 82.4%; Score 42; DB 6; Length 149;
Best Local Similarity 77.8%; Pred. No. 38;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LIRCINCQK 9
||||| ||:
Db 100 LIRCITCQR 108

RESULT 44
US-10-767-701-53503
; Sequence 53503, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 53503
; LENGTH: 180
; TYPE: PRT
; ORGANISM: Sorghum bicolor
; FEATURE:
; OTHER INFORMATION: Clone ID: 13392675.pep
US-10-767-701-53503

Query Match 80.4%; Score 41; DB 4; Length 180;
Best Local Similarity 62.5%; Pred. No. 65;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LIRCINCQ 8
|:||:||:
Db 92 LVRCVNCE 99

RESULT 45
US-09-864-408A-3358
; Sequence 3358, Application US/09864408A
; Publication No. US20040009474A1
; GENERAL INFORMATION:
; APPLICANT: Leach, Martin D.
; APPLICANT: Shimkets, Richard A.
; TITLE OF INVENTION: No. US20040009474A1el Human Polynucleotides and Polypeptides Enco
; FILE REFERENCE: 21402-012
; CURRENT APPLICATION NUMBER: US/09/864,408A
; CURRENT FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/206,690
; PRIOR FILING DATE: 2000-05-24
; NUMBER OF SEQ ID NOS: 9068
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3358

; LENGTH: 117
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (112)..(112)
; OTHER INFORMATION: Wherein Xaa may be any naturally occuring amino acid
US-09-864-408A-3358

Query Match 78.4%; Score 40; DB 3; Length 117;
Best Local Similarity 62.5%; Pred. No. 64;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 IRCINCQK 9
:||:|| |
Db 20 VRCVNCSK 27

RESULT 46
US-10-928-992-182
; Sequence 182, Application US/10928992
; Publication No. US20050097639A1
; GENERAL INFORMATION:
; APPLICANT: Nguyen, Henry T
; APPLICANT: Kreps, Joel A
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES FROM RICE CONTROLLING ABIOTIC STRESS
; TITLE OF INVENTION: TOLERANCE
; FILE REFERENCE: 1392/8/2
; CURRENT APPLICATION NUMBER: US/10/928,992
; CURRENT FILING DATE: 2004-08-27
; PRIOR APPLICATION NUMBER: US 60/498,183
; PRIOR FILING DATE: 2003-08-27
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 182
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Oryza sativa
US-10-928-992-182

Query Match 78.4%; Score 40; DB 5; Length 159;
Best Local Similarity 75.0%; Pred. No. 84;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LIRCINCQ 8
:|||:|||
Db 120 VIRCMNCQ 127

RESULT 47
US-10-437-963-144051
; Sequence 144051, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 144051
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_44900C.1.pep
US-10-437-963-144051

Query Match 78.4%; Score 40; DB 4; Length 237;
Best Local Similarity 75.0%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LIRCINCQ 8
:|||:|||
Db 198 VIRCMNCQ 205

RESULT 48
US-10-739-930-11014
; Sequence 11014, Application US/10739930
; Publication No. US20040216190A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; TITLE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53377)B
; CURRENT APPLICATION NUMBER: US/10/739,930
; CURRENT FILING DATE: 2003-12-18
; NUMBER OF SEQ ID NOS: 11088
; SEQ ID NO 11014
; LENGTH: 265
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(265)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: TRIAE-23APR03-C95862_1.p
US-10-739-930-11014

Query Match 78.4%; Score 40; DB 5; Length 265;
Best Local Similarity 75.0%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LIRCINCQ 8
:|||:|||
Db 224 VIRCMNCQ 231

RESULT 49
US-11-021-949-15
; Sequence 15, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-15

Query Match 76.5%; Score 39; DB 6; Length 149;
Best Local Similarity 77.8%; Pred. No. 1.1e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 LIRCINCQK 9
              ||||| ||:
Db        100 LIRCIICQR 108


RESULT 50
US-11-021-949-16
; Sequence 16, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 16
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-16

  Query Match             76.5%;  Score 39;  DB 6;  Length 149;
  Best Local Similarity   77.8%;  Pred. No. 1.1e+02;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||| ||:
Db        100 LIRCIICQR 108


Search completed: May  5, 2006, 08:28:52
Job time : 62 secs
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:19:00 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-54
Perfect score: 51
Sequence: 1 LIRCINCQK 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_New:*
1: /SIDS5/ptodata/1/pubpaa/US08_NEW_PUB.pep1:*
2: /SIDS5/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
3: /SIDS5/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
4: /SIDS5/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
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6: /SIDS5/ptodata/1/pubpaa/US09_NEW_PUB.pep:*
7: /SIDS5/ptodata/1/pubpaa/US09_NEW_PUB.pep1:*
8: /SIDS5/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
9: /SIDS5/ptodata/1/pubpaa/US10_NEW_PUB.pep1:*
10: /SIDS5/ptodata/1/pubpaa/US11_NEW_PUB.pep:*
11: /SIDS5/ptodata/1/pubpaa/US11_NEW_PUB.pep1:*
12: /SIDS5/ptodata/1/pubpaa/US60_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
|---|---|---|---|---|---|---|
| 1 | 51 | 100.0 | 11 | 9 | US-10-530-061-484 | Sequence 484, App |
| 2 | 51 | 100.0 | 151 | 9 | US-10-530-253-13 | Sequence 13, Appl |
| 3 | 51 | 100.0 | 158 | 11 | US-11-206-138-3 | Sequence 3, Appli |
| 4 | 51 | 100.0 | 248 | 9 | US-10-530-253-1 | Sequence 1, Appli |
| 5 | 51 | 100.0 | 248 | 9 | US-10-530-253-7 | Sequence 7, Appli |
| 6 | 51 | 100.0 | 256 | 11 | US-11-192-923A-2 | Sequence 2, Appli |
| 7 | 48 | 94.1 | 10 | 9 | US-10-530-061-508 | Sequence 508, App |
| 8 | 47 | 92.2 | 10 | 9 | US-10-530-061-507 | Sequence 507, App |
| 9 | 45 | 88.2 | 10 | 9 | US-10-530-061-544 | Sequence 544, App |
| 10 | 45 | 88.2 | 149 | 9 | US-10-530-253-18 | Sequence 18, Appl |
| 11 | 43 | 84.3 | 10 | 9 | US-10-530-061-474 | Sequence 474, App |
| 12 | 43 | 84.3 | 11 | 9 | US-10-530-061-488 | Sequence 488, App |
| 13 | 43 | 84.3 | 158 | 9 | US-10-530-253-15 | Sequence 15, Appl |
| 14 | 43 | 84.3 | 158 | 9 | US-10-530-253-20 | Sequence 20, Appl |
| 15 | 42 | 82.4 | 9 | 9 | US-10-530-061-650 | Sequence 650, App |
| 16 | 42 | 82.4 | 10 | 9 | US-10-530-061-556 | Sequence 556, App |
| 17 | 42 | 82.4 | 149 | 9 | US-10-530-253-16 | Sequence 16, Appl |
| 18 | 40 | 78.4 | 9 | 9 | US-10-530-061-628 | Sequence 628, App |
| 19 | 40 | 78.4 | 10 | 9 | US-10-530-061-529 | Sequence 529, App |
| 20 | 39 | 76.5 | 10 | 9 | US-10-530-061-480 | Sequence 480, App |
| 21 | 39 | 76.5 | 10 | 9 | US-10-530-061-528 | Sequence 528, App |
| 22 | 39 | 76.5 | 10 | 9 | US-10-530-061-543 | Sequence 543, App |
| 23 | 39 | 76.5 | 10 | 9 | US-10-530-061-571 | Sequence 571, App |
| 24 | 39 | 76.5 | 15 | 9 | US-10-530-061-1665 | Sequence 1665, Ap |
| 25 | 39 | 76.5 | 15 | 9 | US-10-530-061-1681 | Sequence 1681, Ap |
| 26 | 39 | 76.5 | 15 | 9 | US-10-530-061-1685 | Sequence 1685, Ap |
| 27 | 39 | 76.5 | 15 | 9 | US-10-530-061-1701 | Sequence 1701, Ap |
| 28 | 39 | 76.5 | 149 | 9 | US-10-530-253-17 | Sequence 17, Appl |
| 29 | 39 | 76.5 | 149 | 9 | US-10-530-253-24 | Sequence 24, Appl |
| 30 | 39 | 76.5 | 248 | 9 | US-10-530-253-3 | Sequence 3, Appli |
| 31 | 39 | 76.5 | 248 | 9 | US-10-530-253-5 | Sequence 5, Appli |
| 32 | 39 | 76.5 | 248 | 9 | US-10-530-253-9 | Sequence 9, Appli |
| 33 | 39 | 76.5 | 248 | 9 | US-10-530-253-11 | Sequence 11, Appl |
| 34 | 39 | 76.5 | 261 | 11 | US-11-072-512-2517 | Sequence 2517, Ap |
| 35 | 38 | 74.5 | 9 | 9 | US-10-530-061-649 | Sequence 649, App |
| 36 | 38 | 74.5 | 10 | 9 | US-10-530-061-572 | Sequence 572, App |
| 37 | 38 | 74.5 | 15 | 9 | US-10-530-061-1664 | Sequence 1664, Ap |
| 38 | 38 | 74.5 | 15 | 9 | US-10-530-061-1684 | Sequence 1684, Ap |
| 39 | 37 | 72.5 | 15 | 9 | US-10-530-061-1680 | Sequence 1680, Ap |
| 40 | 37 | 72.5 | 15 | 9 | US-10-530-061-1700 | Sequence 1700, Ap |
| 41 | 36 | 70.6 | 10 | 9 | US-10-530-061-600 | Sequence 600, App |
| 42 | 36 | 70.6 | 158 | 9 | US-10-530-253-26 | Sequence 26, Appl |
| 43 | 36 | 70.6 | 360 | 9 | US-10-506-454-47 | Sequence 47, Appl |
| 44 | 36 | 70.6 | 422 | 11 | US-11-072-512-2638 | Sequence 2638, Ap |
| 45 | 36 | 70.6 | 468 | 9 | US-10-763-712A-20 | Sequence 20, Appl |
| 46 | 36 | 70.6 | 468 | 9 | US-10-763-712A-100 | Sequence 100, App |
| 47 | 36 | 70.6 | 587 | 11 | US-11-072-512-3783 | Sequence 3783, Ap |
| 48 | 36 | 70.6 | 1042 | 11 | US-11-037-243-74 | Sequence 74, Appl |
| 49 | 35 | 68.6 | 10 | 9 | US-10-530-061-555 | Sequence 555, App |
| 50 | 35 | 68.6 | 15 | 9 | US-10-530-061-1682 | Sequence 1682, Ap |
| 51 | 35 | 68.6 | 155 | 9 | US-10-530-253-23 | Sequence 23, Appl |
| 52 | 35 | 68.6 | 215 | 9 | US-10-374-954-9 | Sequence 9, Appli |
| 53 | 35 | 68.6 | 246 | 9 | US-10-506-454-1482 | Sequence 1482, Ap |
| 54 | 35 | 68.6 | 447 | 11 | US-11-264-096-1720 | Sequence 1720, Ap |
| 55 | 35 | 68.6 | 449 | 9 | US-10-763-712A-21 | Sequence 21, Appl |
| 56 | 35 | 68.6 | 449 | 9 | US-10-763-712A-104 | Sequence 104, App |
| 57 | 34 | 66.7 | 9 | 11 | US-11-045-024-2978 | Sequence 2978, Ap |
| 58 | 34 | 66.7 | 9 | 11 | US-11-045-024-8966 | Sequence 8966, Ap |
| 59 | 34 | 66.7 | 9 | 11 | US-11-045-024-11200 | Sequence 11200, A |
| 60 | 34 | 66.7 | 15 | 11 | US-11-022-562-97 | Sequence 97, Appl |
| 61 | 34 | 66.7 | 15 | 11 | US-11-022-562-98 | Sequence 98, Appl |
| 62 | 34 | 66.7 | 20 | 11 | US-11-022-562-318 | Sequence 318, App |
| 63 | 34 | 66.7 | 20 | 11 | US-11-022-562-319 | Sequence 319, App |
| 64 | 34 | 66.7 | 152 | 9 | US-10-530-253-39 | Sequence 39, Appl |
| 65 | 34 | 66.7 | 254 | 11 | US-11-098-686-10693 | Sequence 10693, A |
| 66 | 34 | 66.7 | 307 | 11 | US-11-264-096-688 | Sequence 688, App |
| 67 | 34 | 66.7 | 500 | 9 | US-10-507-928-4 | Sequence 4, Appli |
| 68 | 34 | 66.7 | 500 | 11 | US-11-042-988-11 | Sequence 11, Appl |
| 69 | 34 | 66.7 | 500 | 11 | US-11-022-562-339 | Sequence 339, App |
| 70 | 34 | 66.7 | 500 | 11 | US-11-029-465-4 | Sequence 4, Appli |
| 71 | 34 | 66.7 | 500 | 11 | US-11-033-039-978 | Sequence 978, App |
| 72 | 34 | 66.7 | 500 | 11 | US-11-129-442-44 | Sequence 44, Appl |
| 73 | 34 | 66.7 | 501 | 11 | US-11-129-442-23 | Sequence 23, Appl |
| 74 | 34 | 66.7 | 507 | 11 | US-11-096-568A-28365 | Sequence 28365, A |
| 75 | 34 | 66.7 | 512 | 9 | US-10-519-531-4 | Sequence 4, Appli |
| 76 | 34 | 66.7 | 512 | 9 | US-10-519-531-5 | Sequence 5, Appli |
| 77 | 34 | 66.7 | 592 | 8 | US-10-505-928-146 | Sequence 146, App |
| 78 | 34 | 66.7 | 632 | 11 | US-11-096-568A-28364 | Sequence 28364, A |
| 79 | 34 | 66.7 | 732 | 11 | US-11-096-568A-28363 | Sequence 28363, A |
| 80 | 33 | 64.7 | 9 | 11 | US-11-045-024-2979 | Sequence 2979, Ap |
| 81 | 33 | 64.7 | 9 | 11 | US-11-045-024-8915 | Sequence 8915, Ap |
| 82 | 33 | 64.7 | 9 | 11 | US-11-045-024-11166 | Sequence 11166, A |
| 83 | 33 | 64.7 | 9 | 11 | US-11-045-024-13682 | Sequence 13682, A |
| 84 | 33 | 64.7 | 15 | 9 | US-10-530-061-1690 | Sequence 1690, Ap |
| 85 | 33 | 64.7 | 15 | 11 | US-11-045-024-13026 | Sequence 13026, A |
| 86 | 33 | 64.7 | 42 | 9 | US-10-967-527A-18 | Sequence 18, Appl |
| 87 | 33 | 64.7 | 148 | 9 | US-10-530-253-22 | Sequence 22, Appl |
| 88 | 33 | 64.7 | 160 | 9 | US-10-530-253-25 | Sequence 25, Appl |
| 89 | 33 | 64.7 | 198 | 11 | US-11-096-568A-19433 | Sequence 19433, A |
| 90 | 33 | 64.7 | 231 | 11 | US-11-132-285-61 | Sequence 61, Appl |
| 91 | 33 | 64.7 | 235 | 11 | US-11-096-568A-19432 | Sequence 19432, A |
| 92 | 33 | 64.7 | 297 | 9 | US-10-967-527A-17 | Sequence 17, Appl |
| 93 | 33 | 64.7 | 300 | 9 | US-10-467-657-4166 | Sequence 4166, Ap |
| 94 | 33 | 64.7 | 331 | 11 | US-11-096-568A-33068 | Sequence 33068, A |

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| 95 | 33 | 64.7 | 366 | 11 | US-11-037-243-71 | Sequence 71, Appl |
| 96 | 33 | 64.7 | 567 | 11 | US-11-127-817-16 | Sequence 16, Appl |
| 97 | 33 | 64.7 | 608 | 9 | US-10-763-712A-16 | Sequence 16, Appl |
| 98 | 33 | 64.7 | 608 | 9 | US-10-763-712A-90 | Sequence 90, Appl |
| 99 | 33 | 64.7 | 619 | 9 | US-10-763-712A-35 | Sequence 35, Appl |
| 100 | 33 | 64.7 | 670 | 11 | US-11-079-463-5950 | Sequence 5950, Ap |
| 101 | 33 | 64.7 | 1725 | 9 | US-10-766-317-8 | Sequence 8, Appli |
| 102 | 33 | 64.7 | 1725 | 9 | US-10-784-004-457 | Sequence 457, App |
| 103 | 33 | 64.7 | 1725 | 9 | US-10-784-004-960 | Sequence 960, App |
| 104 | 33 | 64.7 | 2440 | 9 | US-10-766-317-10 | Sequence 10, Appl |
| 105 | 33 | 64.7 | 3333 | 9 | US-10-766-317-4 | Sequence 4, Appli |
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| 107 | 32 | 62.7 | 9 | 11 | US-11-045-024-8916 | Sequence 8916, Ap |
| 108 | 32 | 62.7 | 9 | 11 | US-11-045-024-11167 | Sequence 11167, A |
| 109 | 32 | 62.7 | 9 | 11 | US-11-045-024-13695 | Sequence 13695, A |
| 110 | 32 | 62.7 | 10 | 11 | US-11-045-024-3019 | Sequence 3019, Ap |
| 111 | 32 | 62.7 | 10 | 11 | US-11-045-024-8872 | Sequence 8872, Ap |
| 112 | 32 | 62.7 | 10 | 11 | US-11-045-024-11141 | Sequence 11141, A |
| 113 | 32 | 62.7 | 15 | 11 | US-11-045-024-13039 | Sequence 13039, A |
| 114 | 32 | 62.7 | 55 | 9 | US-10-853-807A-12 | Sequence 12, Appl |
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| 117 | 32 | 62.7 | 137 | 11 | US-11-225-903-11 | Sequence 11, Appl |
| 118 | 32 | 62.7 | 142 | 11 | US-11-188-298-16631 | Sequence 16631, A |
| 119 | 32 | 62.7 | 158 | 9 | US-10-530-253-19 | Sequence 19, Appl |
| 120 | 32 | 62.7 | 161 | 11 | US-11-087-099-2465 | Sequence 2465, Ap |
| 121 | 32 | 62.7 | 161 | 11 | US-11-225-903-7 | Sequence 7, Appli |
| 122 | 32 | 62.7 | 161 | 11 | US-11-225-903-10 | Sequence 10, Appl |
| 123 | 32 | 62.7 | 162 | 11 | US-11-087-099-12086 | Sequence 12086, A |
| 124 | 32 | 62.7 | 197 | 11 | US-11-079-463-6305 | Sequence 6305, Ap |
| 125 | 32 | 62.7 | 212 | 11 | US-11-072-512-2514 | Sequence 2514, Ap |
| 126 | 32 | 62.7 | 245 | 11 | US-11-098-686-11374 | Sequence 11374, A |
| 127 | 32 | 62.7 | 262 | 11 | US-11-188-298-7067 | Sequence 7067, Ap |
| 128 | 32 | 62.7 | 401 | 11 | US-11-072-175-224 | Sequence 224, App |
| 129 | 32 | 62.7 | 489 | 11 | US-11-096-568A-32382 | Sequence 32382, A |
| 130 | 32 | 62.7 | 491 | 11 | US-11-096-568A-32381 | Sequence 32381, A |
| 131 | 32 | 62.7 | 497 | 11 | US-11-096-568A-32380 | Sequence 32380, A |
| 132 | 32 | 62.7 | 500 | 9 | US-10-519-531-3 | Sequence 3, Appli |
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| 135 | 32 | 62.7 | 500 | 11 | US-11-204-755-5 | Sequence 5, Appli |
| 136 | 32 | 62.7 | 550 | 11 | US-11-096-568A-12196 | Sequence 12196, A |
| 137 | 32 | 62.7 | 579 | 11 | US-11-096-568A-12195 | Sequence 12195, A |
| 138 | 32 | 62.7 | 596 | 11 | US-11-096-568A-12194 | Sequence 12194, A |
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| 141 | 32 | 62.7 | 792 | 11 | US-11-098-686-10439 | Sequence 10439, A |
| 142 | 32 | 62.7 | 810 | 11 | US-11-096-568A-30628 | Sequence 30628, A |
| 143 | 32 | 62.7 | 842 | 11 | US-11-096-568A-30627 | Sequence 30627, A |
| 144 | 32 | 62.7 | 1713 | 9 | US-10-766-317-2 | Sequence 2, Appli |
| 145 | 32 | 62.7 | 1724 | 9 | US-10-766-317-6 | Sequence 6, Appli |
| 146 | 32 | 62.7 | 2117 | 11 | US-11-087-099-9594 | Sequence 9594, Ap |
| 147 | 32 | 62.7 | 2117 | 11 | US-11-188-298-8910 | Sequence 8910, Ap |
| 148 | 32 | 62.7 | 2132 | 11 | US-11-087-099-2434 | Sequence 2434, Ap |
| 149 | 32 | 62.7 | 2132 | 11 | US-11-188-298-2344 | Sequence 2344, Ap |
| 150 | 31 | 60.8 | 15 | 9 | US-10-530-061-1695 | Sequence 1695, Ap |
| 151 | 31 | 60.8 | 15 | 11 | US-11-022-562-96 | Sequence 96, Appl |
| 152 | 31 | 60.8 | 73 | 11 | US-11-096-568A-13744 | Sequence 13744, A |
| 153 | 31 | 60.8 | 107 | 9 | US-10-667-295-50 | Sequence 50, Appl |
| 154 | 31 | 60.8 | 118 | 11 | US-11-098-686-10491 | Sequence 10491, A |
| 155 | 31 | 60.8 | 129 | 11 | US-11-116-144-145 | Sequence 145, App |
| 156 | 31 | 60.8 | 129 | 11 | US-11-220-372-145 | Sequence 145, App |
| 157 | 31 | 60.8 | 133 | 9 | US-10-667-295-49 | Sequence 49, Appl |
| 158 | 31 | 60.8 | 137 | 11 | US-11-096-568A-29984 | Sequence 29984, A |
| 159 | 31 | 60.8 | 148 | 11 | US-11-087-099-539 | Sequence 539, App |
| 160 | 31 | 60.8 | 151 | 9 | US-10-530-253-21 | Sequence 21, Appl |
| 161 | 31 | 60.8 | 168 | 11 | US-11-096-568A-29983 | Sequence 29983, A |
| 162 | 31 | 60.8 | 175 | 9 | US-10-667-295-48 | Sequence 48, Appl |
| 163 | 31 | 60.8 | 228 | 11 | US-11-096-568A-28555 | Sequence 28555, A |
| 164 | 31 | 60.8 | 228 | 11 | US-11-096-568A-29575 | Sequence 29575, A |
| 165 | 31 | 60.8 | 252 | 11 | US-11-096-568A-28554 | Sequence 28554, A |
| 166 | 31 | 60.8 | 270 | 9 | US-10-495-597-4 | Sequence 4, Appli |
| 167 | 31 | 60.8 | 273 | 11 | US-11-045-004-1592 | Sequence 1592, Ap |
| 168 | 31 | 60.8 | 338 | 11 | US-11-045-004-824 | Sequence 824, App |
| 169 | 31 | 60.8 | 380 | 11 | US-11-188-298-8053 | Sequence 8053, Ap |
| 170 | 31 | 60.8 | 383 | 11 | US-11-188-298-13978 | Sequence 13978, A |
| 171 | 31 | 60.8 | 390 | 8 | US-10-511-937-2996 | Sequence 2996, Ap |
| 172 | 31 | 60.8 | 396 | 9 | US-10-467-657-280 | Sequence 280, App |
| 173 | 31 | 60.8 | 396 | 9 | US-10-467-657-4380 | Sequence 4380, Ap |
| 174 | 31 | 60.8 | 441 | 11 | US-11-100-640-30 | Sequence 30, Appl |
| 175 | 31 | 60.8 | 459 | 11 | US-11-264-096-2106 | Sequence 2106, Ap |
| 176 | 31 | 60.8 | 478 | 9 | US-10-506-454-665 | Sequence 665, App |
| 177 | 31 | 60.8 | 513 | 11 | US-11-129-442-46 | Sequence 46, Appl |
| 178 | 31 | 60.8 | 717 | 11 | US-11-045-004-1590 | Sequence 1590, Ap |
| 179 | 31 | 60.8 | 759 | 11 | US-11-072-175-167 | Sequence 167, App |
| 180 | 31 | 60.8 | 788 | 11 | US-11-079-463-8103 | Sequence 8103, Ap |
| 181 | 31 | 60.8 | 1025 | 8 | US-10-505-928-505 | Sequence 505, App |
| 182 | 31 | 60.8 | 1025 | 11 | US-11-169-041-164 | Sequence 164, App |
| 183 | 31 | 60.8 | 1193 | 8 | US-10-505-928-537 | Sequence 537, App |
| 184 | 31 | 60.8 | 1454 | 11 | US-11-109-157A-2 | Sequence 2, Appli |
| 185 | 31 | 60.8 | 1686 | 11 | US-11-109-157A-1 | Sequence 1, Appli |
| 186 | 31 | 60.8 | 1686 | 11 | US-11-226-701-2 | Sequence 2, Appli |
| 187 | 31 | 60.8 | 1796 | 11 | US-11-087-099-10309 | Sequence 10309, A |
| 188 | 31 | 60.8 | 1796 | 11 | US-11-188-298-9498 | Sequence 9498, Ap |
| 189 | 31 | 60.8 | 4346 | 9 | US-10-995-561-671 | Sequence 671, App |
| 190 | 31 | 60.8 | 4347 | 9 | US-10-995-561-670 | Sequence 670, App |
| 191 | 31 | 60.8 | 4390 | 11 | US-11-169-041-169 | Sequence 169, App |
| 192 | 31 | 60.8 | 4419 | 9 | US-10-821-234-1155 | Sequence 1155, Ap |
| 193 | 30.5 | 59.8 | 342 | 11 | US-11-087-099-3637 | Sequence 3637, Ap |
| 194 | 30 | 58.8 | 68 | 11 | US-11-172-740-1856 | Sequence 1856, Ap |
| 195 | 30 | 58.8 | 85 | 11 | US-11-172-740-1857 | Sequence 1857, Ap |
| 196 | 30 | 58.8 | 161 | 11 | US-11-126-126-2 | Sequence 2, Appli |
| 197 | 30 | 58.8 | 161 | 11 | US-11-057-923-3 | Sequence 3, Appli |
| 198 | 30 | 58.8 | 196 | 8 | US-10-505-928-686 | Sequence 686, App |
| 199 | 30 | 58.8 | 196 | 11 | US-11-072-175-207 | Sequence 207, App |
| 200 | 30 | 58.8 | 199 | 11 | US-11-188-298-15475 | Sequence 15475, A |
| 201 | 30 | 58.8 | 228 | 9 | US-10-714-887-184 | Sequence 184, App |
| 202 | 30 | 58.8 | 234 | 11 | US-11-004-399-3166 | Sequence 3166, Ap |
| 203 | 30 | 58.8 | 279 | 8 | US-10-505-928-623 | Sequence 623, App |
| 204 | 30 | 58.8 | 285 | 9 | US-10-793-626-3192 | Sequence 3192, Ap |
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| 206 | 30 | 58.8 | 325 | 11 | US-11-188-298-3569 | Sequence 3569, Ap |
| 207 | 30 | 58.8 | 339 | 11 | US-11-096-568A-5237 | Sequence 5237, Ap |
| 208 | 30 | 58.8 | 340 | 11 | US-11-096-568A-23136 | Sequence 23136, A |
| 209 | 30 | 58.8 | 345 | 11 | US-11-096-568A-23135 | Sequence 23135, A |
| 210 | 30 | 58.8 | 350 | 9 | US-10-506-454-618 | Sequence 618, App |
| 211 | 30 | 58.8 | 352 | 11 | US-11-188-298-4175 | Sequence 4175, Ap |
| 212 | 30 | 58.8 | 358 | 11 | US-11-096-568A-5234 | Sequence 5234, Ap |
| 213 | 30 | 58.8 | 358 | 11 | US-11-188-298-16087 | Sequence 16087, A |
| 214 | 30 | 58.8 | 360 | 11 | US-11-096-568A-7436 | Sequence 7436, Ap |
| 215 | 30 | 58.8 | 364 | 11 | US-11-096-568A-7435 | Sequence 7435, Ap |
| 216 | 30 | 58.8 | 366 | 11 | US-11-045-004-1716 | Sequence 1716, Ap |
| 217 | 30 | 58.8 | 376 | 11 | US-11-096-568A-8406 | Sequence 8406, Ap |
| 218 | 30 | 58.8 | 411 | 11 | US-11-096-568A-3304 | Sequence 3304, Ap |
| 219 | 30 | 58.8 | 412 | 11 | US-11-116-939-12 | Sequence 12, Appl |
| 220 | 30 | 58.8 | 412 | 11 | US-11-079-463-10304 | Sequence 10304, A |
| 221 | 30 | 58.8 | 414 | 11 | US-11-096-568A-3303 | Sequence 3303, Ap |
| 222 | 30 | 58.8 | 416 | 11 | US-11-072-512-2096 | Sequence 2096, Ap |
| 223 | 30 | 58.8 | 442 | 11 | US-11-096-568A-5236 | Sequence 5236, Ap |
| 224 | 30 | 58.8 | 444 | 11 | US-11-072-512-2354 | Sequence 2354, Ap |
| 225 | 30 | 58.8 | 450 | 9 | US-10-958-267-10 | Sequence 10, Appl |
| 226 | 30 | 58.8 | 450 | 9 | US-10-958-267-13 | Sequence 13, Appl |
| 227 | 30 | 58.8 | 452 | 11 | US-11-072-512-2403 | Sequence 2403, Ap |
| 228 | 30 | 58.8 | 453 | 11 | US-11-185-878-5 | Sequence 5, Appli |
| 229 | 30 | 58.8 | 455 | 9 | US-10-523-328-3 | Sequence 3, Appli |
| 230 | 30 | 58.8 | 455 | 9 | US-10-784-004-715 | Sequence 715, App |
| 231 | 30 | 58.8 | 455 | 11 | US-11-182-946-3 | Sequence 3, Appli |
| 232 | 30 | 58.8 | 456 | 9 | US-10-763-712A-44 | Sequence 44, Appl |
| 233 | 30 | 58.8 | 458 | 11 | US-11-096-568A-5233 | Sequence 5233, Ap |
| 234 | 30 | 58.8 | 482 | 11 | US-11-096-568A-8405 | Sequence 8405, Ap |
| 235 | 30 | 58.8 | 485 | 11 | US-11-096-568A-3302 | Sequence 3302, Ap |
| 236 | 30 | 58.8 | 488 | 11 | US-11-096-568A-8404 | Sequence 8404, Ap |
| 237 | 30 | 58.8 | 504 | 9 | US-10-763-712A-78 | Sequence 78, Appl |
| 238 | 30 | 58.8 | 516 | 9 | US-10-508-263-26 | Sequence 26, Appl |
| 239 | 30 | 58.8 | 521 | 11 | US-11-129-442-45 | Sequence 45, Appl |
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| 241 | 30 | 58.8 | 536 | 11 | US-11-051-720-1542 | Sequence 1542, Ap |
| 242 | 30 | 58.8 | 548 | 11 | US-11-072-512-2643 | Sequence 2643, Ap |
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| 244 | 30 | 58.8 | 562 | 9 | US-10-508-263-24 | Sequence 24, Appl |
| 245 | 30 | 58.8 | 574 | 11 | US-11-051-720-1548 | Sequence 1548, Ap |
| 246 | 30 | 58.8 | 588 | 11 | US-11-079-463-6487 | Sequence 6487, Ap |
| 247 | 30 | 58.8 | 595 | 9 | US-10-784-004-774 | Sequence 774, App |
| 248 | 30 | 58.8 | 595 | 9 | US-10-784-004-1108 | Sequence 1108, Ap |
| 249 | 30 | 58.8 | 638 | 11 | US-11-051-720-1547 | Sequence 1547, Ap |
| 250 | 30 | 58.8 | 665 | 9 | US-10-784-004-771 | Sequence 771, App |
| 251 | 30 | 58.8 | 665 | 9 | US-10-784-004-1107 | Sequence 1107, Ap |
| 252 | 30 | 58.8 | 727 | 9 | US-10-784-004-449 | Sequence 449, App |
| 253 | 30 | 58.8 | 727 | 9 | US-10-784-004-958 | Sequence 958, App |
| 254 | 30 | 58.8 | 909 | 11 | US-11-076-187-4 | Sequence 4, Appli |
| 255 | 30 | 58.8 | 1206 | 9 | US-10-763-712A-18 | Sequence 18, Appl |
| 256 | 30 | 58.8 | 1206 | 9 | US-10-763-712A-99 | Sequence 99, Appl |
| 257 | 30 | 58.8 | 1287 | 8 | US-10-505-928-341 | Sequence 341, App |
| 258 | 30 | 58.8 | 1441 | 11 | US-11-096-568A-34298 | Sequence 34298, A |
| 259 | 30 | 58.8 | 1450 | 11 | US-11-096-568A-34297 | Sequence 34297, A |
| 260 | 30 | 58.8 | 1488 | 11 | US-11-096-568A-34296 | Sequence 34296, A |
| 261 | 29 | 56.9 | 10 | 11 | US-11-045-024-9320 | Sequence 9320, Ap |
| 262 | 29 | 56.9 | 10 | 11 | US-11-045-024-11422 | Sequence 11422, A |
| 263 | 29 | 56.9 | 13 | 11 | US-11-004-399-2104 | Sequence 2104, Ap |
| 264 | 29 | 56.9 | 20 | 11 | US-11-022-562-320 | Sequence 320, App |
| 265 | 29 | 56.9 | 20 | 11 | US-11-022-562-321 | Sequence 321, App |
| 266 | 29 | 56.9 | 50 | 11 | US-11-033-105A-17 | Sequence 17, Appl |
| 267 | 29 | 56.9 | 60 | 11 | US-11-255-427-15 | Sequence 15, Appl |
| 268 | 29 | 56.9 | 72 | 11 | US-11-004-399-833 | Sequence 833, App |
| 269 | 29 | 56.9 | 76 | 9 | US-10-467-657-3610 | Sequence 3610, Ap |
| 270 | 29 | 56.9 | 83 | 11 | US-11-096-568A-11779 | Sequence 11779, A |
| 271 | 29 | 56.9 | 84 | 11 | US-11-096-568A-2499 | Sequence 2499, Ap |
| 272 | 29 | 56.9 | 84 | 11 | US-11-172-740-833 | Sequence 833, App |
| 273 | 29 | 56.9 | 85 | 11 | US-11-172-740-834 | Sequence 834, App |
| 274 | 29 | 56.9 | 91 | 11 | US-11-126-126-10 | Sequence 10, Appl |
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| 413 | 29 | 56.9 | 538 | 11 | US-11-124-368A-312 | Sequence 312, App |
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| 481 | 29 | 56.9 | 1348 | 9 | US-10-995-561-624 | Sequence 624, App |
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| 484 | 29 | 56.9 | 1798 | 9 | US-10-995-561-1034 | Sequence 1034, Ap |
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| 488 | 29 | 56.9 | 2176 | 11 | US-11-193-789-25 | Sequence 25, Appl |
| 489 | 29 | 56.9 | 2176 | 11 | US-11-193-806-25 | Sequence 25, Appl |
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| 530 | 29 | 56.9 | 3635 | 11 | US-11-019-711-47 | Sequence 47, Appl |
| 531 | 29 | 56.9 | 3690 | 9 | US-10-995-561-1016 | Sequence 1016, Ap |
| 532 | 29 | 56.9 | 3714 | 9 | US-10-995-561-1015 | Sequence 1015, Ap |

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| 533 | 29 | 56.9 | 3717 | 9 | US-10-821-234-1076 | Sequence 1076, Ap |
| 534 | 29 | 56.9 | 3969 | 9 | US-10-974-127A-59 | Sequence 59, Appl |
| 535 | 28.5 | 55.9 | 215 | 9 | US-10-131-826A-4 | Sequence 4, Appli |
| 536 | 28.5 | 55.9 | 215 | 9 | US-10-973-115B-4 | Sequence 4, Appli |
| 537 | 28.5 | 55.9 | 215 | 9 | US-10-137-873A-4 | Sequence 4, Appli |
| 538 | 28.5 | 55.9 | 215 | 9 | US-10-152-370-4 | Sequence 4, Appli |
| 539 | 28.5 | 55.9 | 215 | 11 | US-11-290-153-4 | Sequence 4, Appli |
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| 543 | 28.5 | 55.9 | 462 | 11 | US-11-096-568A-11834 | Sequence 11834, A |
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| 545 | 28 | 54.9 | 9 | 9 | US-10-530-061-629 | Sequence 629, App |
| 546 | 28 | 54.9 | 9 | 11 | US-11-136-079-226 | Sequence 226, App |
| 547 | 28 | 54.9 | 10 | 9 | US-10-530-061-546 | Sequence 546, App |
| 548 | 28 | 54.9 | 20 | 11 | US-11-139-041-392 | Sequence 392, App |
| 549 | 28 | 54.9 | 20 | 11 | US-11-139-041-393 | Sequence 393, App |
| 550 | 28 | 54.9 | 45 | 11 | US-11-004-399-886 | Sequence 886, App |
| 551 | 28 | 54.9 | 63 | 9 | US-10-914-391A-2 | Sequence 2, Appli |
| 552 | 28 | 54.9 | 64 | 11 | US-11-096-568A-25338 | Sequence 25338, A |
| 553 | 28 | 54.9 | 69 | 9 | US-10-467-657-8186 | Sequence 8186, Ap |
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| 555 | 28 | 54.9 | 80 | 11 | US-11-004-399-41 | Sequence 41, Appl |
| 556 | 28 | 54.9 | 80 | 11 | US-11-004-399-859 | Sequence 859, App |
| 557 | 28 | 54.9 | 80 | 11 | US-11-004-399-3354 | Sequence 3354, Ap |
| 558 | 28 | 54.9 | 80 | 11 | US-11-004-399-3633 | Sequence 3633, Ap |
| 559 | 28 | 54.9 | 83 | 9 | US-10-467-657-7970 | Sequence 7970, Ap |
| 560 | 28 | 54.9 | 101 | 11 | US-11-079-463-5470 | Sequence 5470, Ap |
| 561 | 28 | 54.9 | 102 | 11 | US-11-172-740-277 | Sequence 277, App |
| 562 | 28 | 54.9 | 108 | 11 | US-11-087-099-6711 | Sequence 6711, Ap |
| 563 | 28 | 54.9 | 109 | 9 | US-10-941-717A-9 | Sequence 9, Appli |
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| 565 | 28 | 54.9 | 125 | 11 | US-11-188-298-19949 | Sequence 19949, A |
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| 567 | 28 | 54.9 | 141 | 11 | US-11-296-017-2 | Sequence 2, Appli |
| 568 | 28 | 54.9 | 142 | 11 | US-11-096-568A-30891 | Sequence 30891, A |
| 569 | 28 | 54.9 | 145 | 11 | US-11-079-463-8644 | Sequence 8644, Ap |
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| 574 | 28 | 54.9 | 149 | 11 | US-11-075-047A-85 | Sequence 85, Appl |
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| 579 | 28 | 54.9 | 163 | 9 | US-10-667-295-123 | Sequence 123, App |
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| 582 | 28 | 54.9 | 170 | 11 | US-11-188-298-1424 | Sequence 1424, Ap |
| 583 | 28 | 54.9 | 171 | 11 | US-11-096-568A-4361 | Sequence 4361, Ap |
| 584 | 28 | 54.9 | 171 | 11 | US-11-096-568A-21324 | Sequence 21324, A |
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| 591 | 28 | 54.9 | 186 | 11 | US-11-188-298-9471 | Sequence 9471, Ap |
| 592 | 28 | 54.9 | 193 | 11 | US-11-096-568A-22024 | Sequence 22024, A |
| 593 | 28 | 54.9 | 194 | 11 | US-11-096-568A-6134 | Sequence 6134, Ap |
| 594 | 28 | 54.9 | 199 | 11 | US-11-087-099-6488 | Sequence 6488, Ap |
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| 598 | 28 | 54.9 | 207 | 11 | US-11-087-099-1669 | Sequence 1669, Ap |
| 599 | 28 | 54.9 | 213 | 11 | US-11-087-099-4875 | Sequence 4875, Ap |
| 600 | 28 | 54.9 | 214 | 11 | US-11-096-568A-3549 | Sequence 3549, Ap |
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| 604 | 28 | 54.9 | 218 | 10 | US-11-263-326-130 | Sequence 130, App |
| 605 | 28 | 54.9 | 218 | 10 | US-11-263-326-174 | Sequence 174, App |
| 606 | 28 | 54.9 | 219 | 11 | US-11-096-568A-9259 | Sequence 9259, Ap |
| 607 | 28 | 54.9 | 219 | 11 | US-11-096-568A-9261 | Sequence 9261, Ap |
| 608 | 28 | 54.9 | 222 | 11 | US-11-087-099-9622 | Sequence 9622, Ap |
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| 613 | 28 | 54.9 | 241 | 11 | US-11-096-568A-6133 | Sequence 6133, Ap |
| 614 | 28 | 54.9 | 246 | 11 | US-11-096-568A-26509 | Sequence 26509, A |
| 615 | 28 | 54.9 | 247 | 11 | US-11-096-568A-6132 | Sequence 6132, Ap |
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| 617 | 28 | 54.9 | 251 | 11 | US-11-096-568A-21502 | Sequence 21502, A |
| 618 | 28 | 54.9 | 251 | 11 | US-11-188-298-10273 | Sequence 10273, A |
| 619 | 28 | 54.9 | 253 | 11 | US-11-096-568A-23256 | Sequence 23256, A |
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| 621 | 28 | 54.9 | 258 | 11 | US-11-188-298-2657 | Sequence 2657, Ap |
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| 624 | 28 | 54.9 | 269 | 9 | US-10-537-897-19 | Sequence 19, Appl |
| 625 | 28 | 54.9 | 269 | 9 | US-10-537-897-37 | Sequence 37, Appl |
| 626 | 28 | 54.9 | 269 | 11 | US-11-188-298-13729 | Sequence 13729, A |
| 627 | 28 | 54.9 | 273 | 11 | US-11-096-568A-22023 | Sequence 22023, A |
| 628 | 28 | 54.9 | 273 | 11 | US-11-096-568A-26249 | Sequence 26249, A |
| 629 | 28 | 54.9 | 275 | 9 | US-10-525-907-16 | Sequence 16, Appl |
| 630 | 28 | 54.9 | 275 | 9 | US-10-525-907-18 | Sequence 18, Appl |
| 631 | 28 | 54.9 | 275 | 11 | US-11-188-298-6268 | Sequence 6268, Ap |
| 632 | 28 | 54.9 | 275 | 11 | US-11-188-298-9918 | Sequence 9918, Ap |
| 633 | 28 | 54.9 | 275 | 11 | US-11-188-298-14576 | Sequence 14576, A |
| 634 | 28 | 54.9 | 275 | 11 | US-11-188-298-16136 | Sequence 16136, A |
| 635 | 28 | 54.9 | 284 | 11 | US-11-087-099-430 | Sequence 430, App |
| 636 | 28 | 54.9 | 286 | 9 | US-10-667-295-60 | Sequence 60, Appl |
| 637 | 28 | 54.9 | 286 | 11 | US-11-096-568A-24064 | Sequence 24064, A |
| 638 | 28 | 54.9 | 286 | 11 | US-11-172-740-115 | Sequence 115, App |
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| 642 | 28 | 54.9 | 292 | 11 | US-11-188-298-1448 | Sequence 1448, Ap |
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| 653 | 28 | 54.9 | 300 | 11 | US-11-188-298-22472 | Sequence 22472, A |
| 654 | 28 | 54.9 | 308 | 11 | US-11-188-298-350 | Sequence 350, App |
| 655 | 28 | 54.9 | 316 | 11 | US-11-096-568A-22022 | Sequence 22022, A |
| 656 | 28 | 54.9 | 317 | 11 | US-11-096-568A-26248 | Sequence 26248, A |
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| 658 | 28 | 54.9 | 332 | 11 | US-11-188-298-18407 | Sequence 18407, A |
| 659 | 28 | 54.9 | 333 | 11 | US-11-096-568A-26084 | Sequence 26084, A |
| 660 | 28 | 54.9 | 335 | 11 | US-11-087-099-4668 | Sequence 4668, Ap |
| 661 | 28 | 54.9 | 335 | 11 | US-11-079-463-7085 | Sequence 7085, Ap |
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| 664 | 28 | 54.9 | 342 | 11 | US-11-172-740-2264 | Sequence 2264, Ap |
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| 666 | 28 | 54.9 | 343 | 11 | US-11-172-740-2265 | Sequence 2265, Ap |
| 667 | 28 | 54.9 | 343 | 11 | US-11-188-298-2531 | Sequence 2531, Ap |
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| 669 | 28 | 54.9 | 345 | 11 | US-11-087-099-9962 | Sequence 9962, Ap |
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| 673 | 28 | 54.9 | 348 | 11 | US-11-188-298-21606 | Sequence 21606, A |
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| 675 | 28 | 54.9 | 350 | 11 | US-11-103-957-19 | Sequence 19, Appl |
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| 680 | 28 | 54.9 | 352 | 11 | US-11-188-298-3897 | Sequence 3897, Ap |
| 681 | 28 | 54.9 | 352 | 11 | US-11-188-298-9005 | Sequence 9005, Ap |
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| 685 | 28 | 54.9 | 356 | 11 | US-11-172-740-2274 | Sequence 2274, Ap |
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| 697 | 28 | 54.9 | 379 | 9 | US-10-763-712A-40 | Sequence 40, Appl |
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| 701 | 28 | 54.9 | 384 | 11 | US-11-139-041-333 | Sequence 333, App |
| 702 | 28 | 54.9 | 384 | 11 | US-11-139-041-334 | Sequence 334, App |
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| 705 | 28 | 54.9 | 386 | 11 | US-11-172-740-1724 | Sequence 1724, Ap |
| 706 | 28 | 54.9 | 386 | 11 | US-11-188-298-21522 | Sequence 21522, A |
| 707 | 28 | 54.9 | 387 | 11 | US-11-087-099-2534 | Sequence 2534, Ap |
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| 709 | 28 | 54.9 | 388 | 11 | US-11-188-298-4638 | Sequence 4638, Ap |
| 710 | 28 | 54.9 | 389 | 11 | US-11-172-740-1723 | Sequence 1723, Ap |
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| 731 | 28 | 54.9 | 482 | 11 | US-11-188-298-5046 | Sequence 5046, Ap |
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| 738 | 28 | 54.9 | 526 | 11 | US-11-072-512-2950 | Sequence 2950, Ap |
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| 763 | 28 | 54.9 | 711 | 11 | US-11-096-568A-9417 | Sequence 9417, Ap |
| 764 | 28 | 54.9 | 721 | 11 | US-11-072-512-3212 | Sequence 3212, Ap |
| 765 | 28 | 54.9 | 726 | 11 | US-11-072-512-2042 | Sequence 2042, Ap |
| 766 | 28 | 54.9 | 779 | 11 | US-11-079-463-9017 | Sequence 9017, Ap |
| 767 | 28 | 54.9 | 914 | 11 | US-11-072-512-2923 | Sequence 2923, Ap |
| 768 | 28 | 54.9 | 1011 | 9 | US-10-330-773-924 | Sequence 924, App |
| 769 | 28 | 54.9 | 1242 | 11 | US-11-019-711-110 | Sequence 110, App |
| 770 | 28 | 54.9 | 1267 | 11 | US-11-109-156-35 | Sequence 35, Appl |
| 771 | 28 | 54.9 | 1287 | 11 | US-11-037-243-72 | Sequence 72, Appl |
| 772 | 28 | 54.9 | 1480 | 11 | US-11-076-074-10 | Sequence 10, Appl |
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| 775 | 28 | 54.9 | 1484 | 11 | US-11-181-330-6 | Sequence 6, Appli |
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ALIGNMENTS

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RESULT 1
US-10-530-061-484
; Sequence 484, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 484
;   LENGTH: 11
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-484

  Query Match            100.0%;  Score 51;  DB 9;  Length 11;
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Db          3 LIRCINCQK 11


RESULT 2
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
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;   ORGANISM: Human papillomavirus type 16
US-10-530-253-13

  Query Match            100.0%;  Score 51;  DB 9;  Length 151;
  Best Local Similarity  100.0%;  Pred. No. 0.074;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        100 LIRCINCQK 108


RESULT 3
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
;  APPLICANT: HealthBanks Biotech CO. LTD.
;  TITLE OF INVENTION: Fusion protein for inhibiting cervcal cancer
;  FILE REFERENCE: P7819/0613
;  CURRENT APPLICATION NUMBER: US/11/206,138
;  CURRENT FILING DATE:  2005-08-18
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-11-206-138-3

  Query Match            100.0%;  Score 51;  DB 11;  Length 158;
  Best Local Similarity  100.0%;  Pred. No. 0.077;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        107 LIRCINCQK 115


RESULT 4
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
```

```
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-1

  Query Match            100.0%;  Score 51;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.11;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        100 LIRCINCQK 108


RESULT 5
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-7

  Query Match            100.0%;  Score 51;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.11;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        197 LIRCINCQK 205


RESULT 6
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
;  APPLICANT: PANG, XIAOWU
;  TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
;  TITLE OF INVENTION:  RECOMBINANT REPLICON
;  FILE REFERENCE: 116620-003
;  CURRENT APPLICATION NUMBER: US/11/192,923A
;  CURRENT FILING DATE:  2005-07-29
;  PRIOR APPLICATION NUMBER: CN 03115272.4
;  PRIOR FILING DATE: 2003-01-30
;  PRIOR APPLICATION NUMBER: CN 03115273.2
;  PRIOR FILING DATE: 2003-01-30
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
;   LENGTH: 256
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-11-192-923A-2

  Query Match            100.0%;  Score 51;  DB 11;  Length 256;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              |||||||||
Db        205 LIRCINCQK 213


RESULT 7
US-10-530-061-508
; Sequence 508, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 508
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-508

  Query Match            94.1%;  Score 48;  DB 9;  Length 10;
  Best Local Similarity   88.9%;  Pred. No. 0.024;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||||| :
Db          2 LIRCINCQR 10


RESULT 8
US-10-530-061-507
; Sequence 507, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 507
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-507
```

Query Match 92.2%; Score 47; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.035;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          2 IRCINCQK 9
              ||||||||
Db          3 IRCINCQK 10
```

RESULT 9
US-10-530-061-544
; Sequence 544, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 544
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-544

Query Match 88.2%; Score 45; DB 9; Length 10;
Best Local Similarity 88.9%; Pred. No. 0.075;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 LIRCINCQK 9
              ||||| |||
Db          2 LIRCITCQK 10
```

RESULT 10
US-10-530-253-18
; Sequence 18, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 35
US-10-530-253-18

Query Match 88.2%; Score 45; DB 9; Length 149;
Best Local Similarity 88.9%; Pred. No. 0.74;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 LIRCINCQK 9
              ||||| |||
Db        100 LIRCITCQK 108
```

RESULT 11
US-10-530-061-474
; Sequence 474, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 474
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-474

Query Match 84.3%; Score 43; DB 9; Length 10;
Best Local Similarity 77.8%; Pred. No. 0.16;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 LIRCINCQK 9
              ||||: |||
Db          2 LIRCLRCQK 10
```

RESULT 12
US-10-530-061-488
; Sequence 488, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 488
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-488

Query Match 84.3%; Score 43; DB 9; Length 11;
Best Local Similarity 77.8%; Pred. No. 0.18;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 LIRCINCQK 9
              ||||: |||
Db          3 LIRCLRCQK 11
```

```
RESULT 13
US-10-530-253-15
; Sequence 15, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 18
US-10-530-253-15

  Query Match            84.3%;  Score 43;  DB 9;  Length 158;
  Best Local Similarity   77.8%;  Pred. No. 1.7;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||: |||
Db        102 LIRCLRCQK 110


RESULT 14
US-10-530-253-20
; Sequence 20, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 45
US-10-530-253-20

  Query Match            84.3%;  Score 43;  DB 9;  Length 158;
  Best Local Similarity   77.8%;  Pred. No. 1.7;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||: |||
Db        102 LIRCLRCQK 110


RESULT 15
US-10-530-061-650
; Sequence 650, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 650
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-650

  Query Match            82.4%;  Score 42;  DB 9;  Length 9;
  Best Local Similarity   88.9%;  Pred. No. 1.9e+05;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||| |||
Db          1 LIRCIICQK 9


RESULT 16
US-10-530-061-556
; Sequence 556, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 556
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-556

  Query Match            82.4%;  Score 42;  DB 9;  Length 10;
  Best Local Similarity   88.9%;  Pred. No. 0.24;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||| |||
Db          2 LIRCIICQK 10


RESULT 17
US-10-530-253-16
; Sequence 16, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
```

```
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 31
US-10-530-253-16

  Query Match            82.4%;  Score 42;  DB 9;  Length 149;
  Best Local Similarity   77.8%;  Pred. No. 2.3;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||| ||:
Db        100 LIRCITCQR 108


RESULT 18
US-10-530-061-628
; Sequence 628, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 628
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-628

  Query Match            78.4%;  Score 40;  DB 9;  Length 9;
  Best Local Similarity   66.7%;  Pred. No. 1.9e+05;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||: ||:
Db          1 LIRCLRCQR 9


RESULT 19
US-10-530-061-529
; Sequence 529, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 529
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-529

  Query Match            78.4%;  Score 40;  DB 9;  Length 10;
  Best Local Similarity   66.7%;  Pred. No. 0.52;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||: ||:
Db          2 LIRCLRCQR 10


RESULT 20
US-10-530-061-480
; Sequence 480, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 480
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-480

  Query Match            76.5%;  Score 39;  DB 9;  Length 10;
  Best Local Similarity   77.8%;  Pred. No. 0.76;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              ||||| ||:
Db          2 LIRCIICQR 10


RESULT 21
US-10-530-061-528
; Sequence 528, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
```

; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 528
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-528

Query Match 76.5%; Score 39; DB 9; Length 10;
Best Local Similarity 75.0%; Pred. No. 0.76;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 IRCINCQK 9
||| : |||
Db 3 IRCLRCQK 10

RESULT 22
US-10-530-061-543
; Sequence 543, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 543
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-543

Query Match 76.5%; Score 39; DB 9; Length 10;
Best Local Similarity 66.7%; Pred. No. 0.76;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LIRCINCQK 9
: |||| || :
Db 2 VIRCITCQR 10

RESULT 23
US-10-530-061-571
; Sequence 571, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 571
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-571

Query Match 76.5%; Score 39; DB 9; Length 10;
Best Local Similarity 75.0%; Pred. No. 0.76;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 IRCINCQK 9
||| : |||
Db 3 IRCLRCQK 10

RESULT 24
US-10-530-061-1665
; Sequence 1665, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1665
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1665

Query Match 76.5%; Score 39; DB 9; Length 15;
Best Local Similarity 75.0%; Pred. No. 1.1;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 IRCINCQK 9
||| : |||
Db 1 IRCLRCQK 8

RESULT 25
US-10-530-061-1681
; Sequence 1681, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503

; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1681
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1681

Query Match 76.5%; Score 39; DB 9; Length 15;
Best Local Similarity 77.8%; Pred. No. 1.1;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LIRCINCQK 9
||||| ||:
Db 4 LIRCIICQR 12

RESULT 26
US-10-530-061-1685
; Sequence 1685, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1685
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1685

Query Match 76.5%; Score 39; DB 9; Length 15;
Best Local Similarity 75.0%; Pred. No. 1.1;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 IRCINCQK 9
||| : |||
Db 1 IRCLRCQK 8

RESULT 27
US-10-530-061-1701
; Sequence 1701, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1701
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1701

Query Match 76.5%; Score 39; DB 9; Length 15;
Best Local Similarity 77.8%; Pred. No. 1.1;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LIRCINCQK 9
||||| ||:
Db 4 LIRCIICQR 12

RESULT 28
US-10-530-253-17
; Sequence 17, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 33
US-10-530-253-17

Query Match 76.5%; Score 39; DB 9; Length 149;
Best Local Similarity 77.8%; Pred. No. 7.5;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LIRCINCQK 9
||||| ||:
Db 100 LIRCIICQR 108

RESULT 29
US-10-530-253-24
; Sequence 24, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 24
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 58
US-10-530-253-24

Query Match 76.5%; Score 39; DB 9; Length 149;

Best Local Similarity 77.8%; Pred. No. 7.5;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 LIRCINCQK 9
              ||||| ||:
Db        100 LIRCIICQR 108
```

RESULT 30
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match 76.5%; Score 39; DB 9; Length 248;
Best Local Similarity 88.9%; Pred. No. 11;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 LIRCINCQK 9
              |||||| ||
Db        100 LIRCINGQK 108
```

RESULT 31
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-5

Query Match 76.5%; Score 39; DB 9; Length 248;
Best Local Similarity 88.9%; Pred. No. 11;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 LIRCINCQK 9
              |||||| ||
Db        100 LIRCINGQK 108
```

RESULT 32
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-9

Query Match 76.5%; Score 39; DB 9; Length 248;
Best Local Similarity 88.9%; Pred. No. 11;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 LIRCINCQK 9
              |||||| ||
Db        197 LIRCINGQK 205
```

RESULT 33
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11

Query Match 76.5%; Score 39; DB 9; Length 248;
Best Local Similarity 88.9%; Pred. No. 11;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 LIRCINCQK 9
              |||||| ||
Db        197 LIRCINGQK 205
```

RESULT 34
US-11-072-512-2517

; Sequence 2517, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHIKO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2517
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-2517

Query Match 76.5%; Score 39; DB 11; Length 261;
Best Local Similarity 62.5%; Pred. No. 12;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 2 IRCINCQK 9
::|||||:|
Db 60 VQCINCEK 67

RESULT 35
US-10-530-061-649
; Sequence 649, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 649
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-649

Query Match 74.5%; Score 38; DB 9; Length 9;
Best Local Similarity 66.7%; Pred. No. 1.9e+05;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LIRCINCQK 9
|:||| ||:
Db 1 LVRCIICQR 9

RESULT 36
US-10-530-061-572
; Sequence 572, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 572
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-572

Query Match 74.5%; Score 38; DB 9; Length 10;
Best Local Similarity 75.0%; Pred. No. 1.1;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LIRCINCQ 8
||||: ||
Db 2 LIRCLRCQ 9

RESULT 37
US-10-530-061-1664
; Sequence 1664, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1664
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1664

Query Match 74.5%; Score 38; DB 9; Length 15;
Best Local Similarity 75.0%; Pred. No. 1.6;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 LIRCINCQ 8
              ||||: ||
Db          8 LIRCLRCQ 15


RESULT 38
US-10-530-061-1684
; Sequence 1684, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1684
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-1684

  Query Match             74.5%;  Score 38;  DB 9;  Length 15;
  Best Local Similarity   75.0%;  Pred. No. 1.6;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQ 8
              ||||: ||
Db          8 LIRCLRCQ 15


RESULT 39
US-10-530-061-1680
; Sequence 1680, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1680
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-1680

  Query Match             72.5%;  Score 37;  DB 9;  Length 15;
  Best Local Similarity   87.5%;  Pred. No. 2.3;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQ 8
              ||||| ||
Db          8 LIRCIICQ 15


RESULT 40
US-10-530-061-1700
; Sequence 1700, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1700
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-1700

  Query Match             72.5%;  Score 37;  DB 9;  Length 15;
  Best Local Similarity   87.5%;  Pred. No. 2.3;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQ 8
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Db          8 LIRCIICQ 15


RESULT 41
US-10-530-061-600
; Sequence 600, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 600
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-600

  Query Match             70.6%;  Score 36;  DB 9;  Length 10;
  Best Local Similarity   66.7%;  Pred. No. 2.4;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LIRCINCQK 9
              :|||| ||:
Db          2 VIRCIICQR 10


RESULT 42
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US-10-530-253-26
; Sequence 26, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 26
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 68
US-10-530-253-26

Query Match 70.6%; Score 36; DB 9; Length 158;
Best Local Similarity 66.7%; Pred. No. 25;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LIRCINCQK 9
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Db 102 LIRCMSCLK 110

RESULT 43
US-10-506-454-47
; Sequence 47, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
; APPLICANT: Slesarev, Alexi I
; APPLICANT: Mezhevaya, Katja V
; APPLICANT: Polushin, Nikolai N
; APPLICANT: Shcherbinina, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Malykh, Andrei G
; APPLICANT: Kozyavkin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
; TITLE OF INVENTION: Methanopyrus Kandleri AV19 and Monophyly of Archael Methanogens
; TITLE OF INVENTION: and Methods of Use Thereof
; FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; CURRENT FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 47
; LENGTH: 360
; TYPE: PRT
; ORGANISM: Methanopyrus kandleri
US-10-506-454-47

Query Match 70.6%; Score 36; DB 9; Length 360;
Best Local Similarity 83.3%; Pred. No. 50;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 RCINCQ 8
||:|||
Db 78 RCLNCQ 83

RESULT 44
US-11-072-512-2638
; Sequence 2638, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHIKO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2638
; LENGTH: 422
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-2638

Query Match 70.6%; Score 36; DB 11; Length 422;
Best Local Similarity 71.4%; Pred. No. 57;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 IRCINCQ 8
|||:||:
Db 10 IRCLNCR 16

RESULT 45
US-10-763-712A-20
; Sequence 20, Application US/10763712A
; Publication No. US20050266541A1
; GENERAL INFORMATION:
; APPLICANT: Solazyme, Inc.
; APPLICANT: Dillon, Harrison P.
; TITLE OF INVENTION: Methods and Compositions for Evolving Microbial Hydrogen
; TITLE OF INVENTION: Production
; FILE REFERENCE: H2042101-CIP
; CURRENT APPLICATION NUMBER: US/10/763,712A
; CURRENT FILING DATE: 2004-01-21
; PRIOR APPLICATION NUMBER: US 10/287,750
; PRIOR FILING DATE: 2002-11-04
; PRIOR APPLICATION NUMBER: US 10/411,910
; PRIOR FILING DATE: 2003-04-12
; PRIOR APPLICATION NUMBER: US 60/500,032
; PRIOR FILING DATE: 2003-09-03
; NUMBER OF SEQ ID NOS: 184
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 20
; LENGTH: 468
; TYPE: PRT
; ORGANISM: Trichomonas vaginalis
US-10-763-712A-20

Query Match 70.6%; Score 36; DB 9; Length 468;
Best Local Similarity 62.5%; Pred. No. 62;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

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Qy          1 LIRCINCQ 8
              : :|||||
Db         30 MTKCINCQ 37
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RESULT 46
US-10-763-712A-100
; Sequence 100, Application US/10763712A
; Publication No. US20050266541A1
; GENERAL INFORMATION:
; APPLICANT: Solazyme, Inc.
; APPLICANT: Dillon, Harrison F.
; TITLE OF INVENTION: Methods and Compositions for Evolving Microbial Hydrogen
; TITLE OF INVENTION: Production
; FILE REFERENCE: H2042101-CIP
; CURRENT APPLICATION NUMBER: US/10/763,712A
; CURRENT FILING DATE: 2004-01-21
; PRIOR APPLICATION NUMBER: US 10/287,750
; PRIOR FILING DATE: 2002-11-04
; PRIOR APPLICATION NUMBER: US 10/411,910
; PRIOR FILING DATE: 2003-04-12
; PRIOR APPLICATION NUMBER: US 60/500,032
; PRIOR FILING DATE: 2003-09-03
; NUMBER OF SEQ ID NOS: 184
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 100
; LENGTH: 468
; TYPE: PRT
; ORGANISM: T vaginalis
US-10-763-712A-100

Query Match 70.6%; Score 36; DB 9; Length 468;
Best Local Similarity 62.5%; Pred. No. 62;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

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Qy          1 LIRCINCQ 8
              : :|||||
Db         30 MTKCINCQ 37
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RESULT 47
US-11-072-512-3783
; Sequence 3783, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHIKO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3783
; LENGTH: 587
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-3783

Query Match 70.6%; Score 36; DB 11; Length 587;
Best Local Similarity 71.4%; Pred. No. 75;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

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Qy          2 IRCINCQ 8
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Db        143 IRCLNCR 149
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RESULT 48
US-11-037-243-74
; Sequence 74, Application US/11037243
; Publication No. US20050287546A1
; GENERAL INFORMATION:
; APPLICANT: PLOWMAN, GREGORY
; APPLICANT: WHYTE, DAVID
; APPLICANT: CAENEPEEL, SEAN
; APPLICANT: CHARYDCZAK, GLEN
; APPLICANT: MANNING, GERARD
; APPLICANT: SUDARSANAM, SUCHA
; TITLE OF INVENTION: NOVEL PROTEASES
; FILE REFERENCE: 038602/1214
; CURRENT APPLICATION NUMBER: US/11/037,243
; CURRENT FILING DATE: 2005-05-26
; PRIOR APPLICATION NUMBER: US/09/888,615
; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: 60/214,047
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 150
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 74
; LENGTH: 1042
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-037-243-74

Query Match 70.6%; Score 36; DB 11; Length 1042;
Best Local Similarity 71.4%; Pred. No. 1.2e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

```
Qy          2 IRCINCQ 8
              |||:||:
Db        598 IRCLNCR 604
```

RESULT 49
US-10-530-061-555
; Sequence 555, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08

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;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 555
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-555

  Query Match             68.6%;  Score 35;  DB 9;  Length 10;
  Best Local Similarity   75.0%;  Pred. No. 3.5;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 IRCINCQK 9
              |||| ||:
Db          3 IRCIICQR 10


RESULT 50
US-10-530-061-1682
; Sequence 1682, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1682
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-1682

  Query Match             68.6%;  Score 35;  DB 9;  Length 15;
  Best Local Similarity   75.0%;  Pred. No. 5;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 IRCINCQK 9
              |||| ||:
Db          1 IRCIICQR 8


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Job time : 9.4 secs
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OM protein - protein search, using sw model

Run on: May 5, 2006, 04:01:20 ; Search time 20.7 Seconds
(without alignments)
35.946 Million cell updates/sec

Title: US-08-170-344-55
Perfect score: 52
Sequence: 1 HLDKKQRFH 9

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Gapop 10.0 , Gapext 0.5

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Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
|---|---|---|---|---|---|---|
| 1 | 52 | 100.0 | 9 | 2 | US-08-159-339A-223 | Sequence 223, App |
| 2 | 52 | 100.0 | 20 | 2 | US-09-601-729-278 | Sequence 278, App |
| 3 | 52 | 100.0 | 22 | 2 | US-09-980-523A-10 | Sequence 10, Appl |
| 4 | 52 | 100.0 | 151 | 2 | US-09-701-080C-18 | Sequence 18, Appl |
| 5 | 52 | 100.0 | 158 | 2 | US-09-980-523A-2 | Sequence 2, Appli |
| 6 | 52 | 100.0 | 162 | 1 | US-08-316-239B-3 | Sequence 3, Appli |
| 7 | 52 | 100.0 | 162 | 1 | US-08-316-239B-4 | Sequence 4, Appli |
| 8 | 52 | 100.0 | 172 | 2 | US-08-860-165-12 | Sequence 12, Appl |
| 9 | 52 | 100.0 | 172 | 2 | US-09-359-382-12 | Sequence 12, Appl |
| 10 | 52 | 100.0 | 182 | 1 | US-08-117-083-10 | Sequence 10, Appl |
| 11 | 52 | 100.0 | 243 | 2 | US-09-462-993-1 | Sequence 1, Appli |
| 12 | 52 | 100.0 | 266 | 2 | US-08-860-165-10 | Sequence 10, Appl |
| 13 | 52 | 100.0 | 266 | 2 | US-09-359-382-10 | Sequence 10, Appl |
| 14 | 52 | 100.0 | 266 | 2 | US-09-367-309A-1 | Sequence 1, Appli |
| 15 | 52 | 100.0 | 273 | 2 | US-09-485-885-4 | Sequence 4, Appli |
| 16 | 52 | 100.0 | 292 | 2 | US-09-485-885-10 | Sequence 10, Appl |
| 17 | 52 | 100.0 | 371 | 2 | US-09-485-885-6 | Sequence 6, Appli |
| 18 | 52 | 100.0 | 390 | 2 | US-09-485-885-14 | Sequence 14, Appl |
| 19 | 47 | 90.4 | 21 | 1 | US-08-934-915-166 | Sequence 166, App |
| 20 | 40 | 76.9 | 10 | 1 | US-07-909-122-5 | Sequence 5, Appli |
| 21 | 39 | 75.0 | 158 | 1 | US-08-247-904B-10 | Sequence 10, Appl |
| 22 | 39 | 75.0 | 158 | 2 | US-08-767-942A-19 | Sequence 19, Appl |
| 23 | 39 | 75.0 | 271 | 1 | US-08-117-083-14 | Sequence 14, Appl |
| 24 | 39 | 75.0 | 278 | 2 | US-09-485-885-21 | Sequence 21, Appl |
| 25 | 39 | 75.0 | 383 | 2 | US-09-485-885-23 | Sequence 23, Appl |
| 26 | 37 | 71.2 | 362 | 2 | US-09-248-796A-17504 | Sequence 17504, A |
| 27 | 35 | 67.3 | 51 | 2 | US-09-513-999C-4563 | Sequence 4563, Ap |
| 28 | 35 | 67.3 | 51 | 2 | US-09-471-276-1426 | Sequence 1426, Ap |
| 29 | 35 | 67.3 | 535 | 1 | US-08-007-107-2 | Sequence 2, Appli |
| 30 | 35 | 67.3 | 538 | 2 | US-09-489-039A-11091 | Sequence 11091, A |
| 31 | 35 | 67.3 | 805 | 2 | US-09-252-991A-32752 | Sequence 32752, A |
| 32 | 35 | 67.3 | 1005 | 2 | US-09-206-942-41 | Sequence 41, Appl |
| 33 | 35 | 67.3 | 1005 | 2 | US-10-193-764-41 | Sequence 41, Appl |
| 34 | 35 | 67.3 | 1011 | 2 | US-09-206-942-39 | Sequence 39, Appl |
| 35 | 35 | 67.3 | 1011 | 2 | US-10-193-764-39 | Sequence 39, Appl |
| 36 | 34 | 65.4 | 181 | 2 | US-09-270-767-40463 | Sequence 40463, A |
| 37 | 34 | 65.4 | 181 | 2 | US-09-270-767-55679 | Sequence 55679, A |
| 38 | 34 | 65.4 | 352 | 2 | US-09-252-991A-17455 | Sequence 17455, A |
| 39 | 33 | 63.5 | 90 | 1 | US-08-341-219-24 | Sequence 24, Appl |
| 40 | 33 | 63.5 | 90 | 2 | US-08-912-314A-24 | Sequence 24, Appl |
| 41 | 33 | 63.5 | 124 | 2 | US-09-270-767-33151 | Sequence 33151, A |
| 42 | 33 | 63.5 | 130 | 1 | US-08-485-455D-67 | Sequence 67, Appl |
| 43 | 33 | 63.5 | 130 | 1 | US-08-482-130C-67 | Sequence 67, Appl |
| 44 | 33 | 63.5 | 130 | 1 | US-08-484-211C-67 | Sequence 67, Appl |
| 45 | 33 | 63.5 | 130 | 2 | US-08-906-769-67 | Sequence 67, Appl |
| 46 | 33 | 63.5 | 130 | 2 | US-08-906-616-67 | Sequence 67, Appl |
| 47 | 33 | 63.5 | 130 | 2 | US-08-817-795-67 | Sequence 67, Appl |
| 48 | 33 | 63.5 | 130 | 2 | US-08-485-443B-67 | Sequence 67, Appl |
| 49 | 33 | 63.5 | 130 | 2 | US-08-639-075A-67 | Sequence 67, Appl |
| 50 | 33 | 63.5 | 130 | 2 | US-09-012-431-67 | Sequence 67, Appl |
| 51 | 33 | 63.5 | 130 | 2 | US-09-012-692-67 | Sequence 67, Appl |
| 52 | 33 | 63.5 | 130 | 2 | US-08-906-613-67 | Sequence 67, Appl |
| 53 | 33 | 63.5 | 130 | 4 | PCT-US95-14442A-67 | Sequence 67, Appl |
| 54 | 33 | 63.5 | 227 | 2 | US-09-252-991A-31689 | Sequence 31689, A |
| 55 | 33 | 63.5 | 252 | 2 | US-08-906-769-103 | Sequence 103, App |
| 56 | 33 | 63.5 | 252 | 2 | US-08-906-616-103 | Sequence 103, App |
| 57 | 33 | 63.5 | 252 | 2 | US-08-817-795-103 | Sequence 103, App |
| 58 | 33 | 63.5 | 252 | 2 | US-08-639-075A-103 | Sequence 103, App |
| 59 | 33 | 63.5 | 252 | 2 | US-09-012-431-103 | Sequence 103, App |
| 60 | 33 | 63.5 | 252 | 2 | US-09-012-692-103 | Sequence 103, App |
| 61 | 33 | 63.5 | 252 | 2 | US-08-906-613-103 | Sequence 103, App |
| 62 | 33 | 63.5 | 252 | 4 | PCT-US95-14442A-103 | Sequence 103, App |
| 63 | 33 | 63.5 | 587 | 2 | US-09-857-669-6 | Sequence 6, Appli |
| 64 | 33 | 63.5 | 609 | 2 | US-09-328-352-8168 | Sequence 8168, Ap |
| 65 | 33 | 63.5 | 609 | 2 | US-09-857-669-2 | Sequence 2, Appli |
| 66 | 33 | 63.5 | 609 | 2 | US-09-857-669-4 | Sequence 4, Appli |
| 67 | 33 | 63.5 | 661 | 2 | US-10-104-047-2645 | Sequence 2645, Ap |
| 68 | 33 | 63.5 | 721 | 2 | US-09-533-029-78 | Sequence 78, Appl |
| 69 | 33 | 63.5 | 5518 | 2 | US-09-953-096-2 | Sequence 2, Appli |
| 70 | 32 | 61.5 | 41 | 2 | US-08-640-737-42 | Sequence 42, Appl |
| 71 | 32 | 61.5 | 60 | 2 | US-09-438-185A-360 | Sequence 360, App |
| 72 | 32 | 61.5 | 98 | 2 | US-09-229-007A-10 | Sequence 10, Appl |
| 73 | 32 | 61.5 | 98 | 2 | US-10-113-424-10 | Sequence 10, Appl |
| 74 | 32 | 61.5 | 100 | 2 | US-09-716-637-18 | Sequence 18, Appl |
| 75 | 32 | 61.5 | 157 | 2 | US-09-270-767-37758 | Sequence 37758, A |
| 76 | 32 | 61.5 | 157 | 2 | US-09-270-767-52975 | Sequence 52975, A |
| 77 | 32 | 61.5 | 157 | 2 | US-09-107-433-2635 | Sequence 2635, Ap |
| 78 | 32 | 61.5 | 200 | 2 | US-09-328-352-5237 | Sequence 5237, Ap |
| 79 | 32 | 61.5 | 214 | 2 | US-09-583-110-4635 | Sequence 4635, Ap |
| 80 | 32 | 61.5 | 226 | 2 | US-09-252-991A-29418 | Sequence 29418, A |
| 81 | 32 | 61.5 | 245 | 1 | US-08-874-138-2 | Sequence 2, Appli |
| 82 | 32 | 61.5 | 245 | 2 | US-08-879-941-4 | Sequence 4, Appli |
| 83 | 32 | 61.5 | 245 | 2 | US-09-747-116-4 | Sequence 4, Appli |
| 84 | 32 | 61.5 | 288 | 2 | US-09-543-681A-5794 | Sequence 5794, Ap |
| 85 | 32 | 61.5 | 374 | 2 | US-09-252-991A-22721 | Sequence 22721, A |
| 86 | 32 | 61.5 | 404 | 2 | US-09-461-325-177 | Sequence 177, App |
| 87 | 32 | 61.5 | 404 | 2 | US-10-012-542-177 | Sequence 177, App |
| 88 | 32 | 61.5 | 404 | 2 | US-10-115-123-177 | Sequence 177, App |
| 89 | 32 | 61.5 | 417 | 2 | US-09-461-325-380 | Sequence 380, App |
| 90 | 32 | 61.5 | 417 | 2 | US-10-012-542-380 | Sequence 380, App |
| 91 | 32 | 61.5 | 417 | 2 | US-10-115-123-380 | Sequence 380, App |
| 92 | 32 | 61.5 | 433 | 2 | US-09-328-352-6978 | Sequence 6978, Ap |
| 93 | 32 | 61.5 | 460 | 2 | US-09-489-039A-12680 | Sequence 12680, A |
| 94 | 32 | 61.5 | 473 | 2 | US-09-248-796A-16084 | Sequence 16084, A |
| 95 | 32 | 61.5 | 483 | 2 | US-09-252-991A-30221 | Sequence 30221, A |
| 96 | 32 | 61.5 | 568 | 2 | US-09-437-568A-4 | Sequence 4, Appli |
| 97 | 32 | 61.5 | 568 | 2 | US-10-418-036-6 | Sequence 6, Appli |
| 98 | 32 | 61.5 | 582 | 2 | US-09-252-991A-26182 | Sequence 26182, A |
| 99 | 32 | 61.5 | 611 | 2 | US-10-104-047-2596 | Sequence 2596, Ap |
| 100 | 32 | 61.5 | 658 | 2 | US-09-252-991A-26319 | Sequence 26319, A |

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| 101 | 31 | 59.6 | 26 | 1 | US-08-620-151-79 | Sequence 79, Appl |
| 102 | 31 | 59.6 | 28 | 1 | US-08-331-394-20 | Sequence 20, Appl |
| 103 | 31 | 59.6 | 28 | 1 | US-08-250-858-20 | Sequence 20, Appl |
| 104 | 31 | 59.6 | 28 | 1 | US-08-446-915-20 | Sequence 20, Appl |
| 105 | 31 | 59.6 | 28 | 1 | US-08-744-139-20 | Sequence 20, Appl |
| 106 | 31 | 59.6 | 28 | 2 | US-08-779-599-20 | Sequence 20, Appl |
| 107 | 31 | 59.6 | 28 | 4 | PCT-US95-06639-20 | Sequence 20, Appl |
| 108 | 31 | 59.6 | 43 | 2 | US-09-079-030-163 | Sequence 163, App |
| 109 | 31 | 59.6 | 47 | 2 | US-09-079-030-90 | Sequence 90, Appl |
| 110 | 31 | 59.6 | 61 | 2 | US-09-621-976-6403 | Sequence 6403, Ap |
| 111 | 31 | 59.6 | 71 | 2 | US-09-248-796A-25104 | Sequence 25104, A |
| 112 | 31 | 59.6 | 90 | 2 | US-09-270-767-41019 | Sequence 41019, A |
| 113 | 31 | 59.6 | 90 | 2 | US-09-270-767-56235 | Sequence 56235, A |
| 114 | 31 | 59.6 | 102 | 2 | US-09-732-210-1688 | Sequence 1688, Ap |
| 115 | 31 | 59.6 | 110 | 2 | US-09-732-210-1689 | Sequence 1689, Ap |
| 116 | 31 | 59.6 | 116 | 2 | US-09-732-210-57 | Sequence 57, Appl |
| 117 | 31 | 59.6 | 139 | 2 | US-09-732-210-292 | Sequence 292, App |
| 118 | 31 | 59.6 | 152 | 2 | US-09-270-767-59795 | Sequence 59795, A |
| 119 | 31 | 59.6 | 183 | 2 | US-09-107-532A-5511 | Sequence 5511, Ap |
| 120 | 31 | 59.6 | 242 | 2 | US-09-328-352-4918 | Sequence 4918, Ap |
| 121 | 31 | 59.6 | 279 | 2 | US-09-252-991A-18933 | Sequence 18933, A |
| 122 | 31 | 59.6 | 316 | 1 | US-08-597-236-12 | Sequence 12, Appl |
| 123 | 31 | 59.6 | 316 | 1 | US-08-746-682A-12 | Sequence 12, Appl |
| 124 | 31 | 59.6 | 317 | 1 | US-08-748-068-3 | Sequence 3, Appli |
| 125 | 31 | 59.6 | 381 | 2 | US-09-489-039A-14015 | Sequence 14015, A |
| 126 | 31 | 59.6 | 421 | 2 | US-09-252-991A-17993 | Sequence 17993, A |
| 127 | 31 | 59.6 | 454 | 2 | US-09-270-767-44370 | Sequence 44370, A |
| 128 | 31 | 59.6 | 470 | 2 | US-09-266-965-118 | Sequence 118, App |
| 129 | 31 | 59.6 | 562 | 2 | US-09-270-767-43731 | Sequence 43731, A |
| 130 | 31 | 59.6 | 577 | 2 | US-10-104-047-2569 | Sequence 2569, Ap |
| 131 | 31 | 59.6 | 671 | 2 | US-09-266-225D-16 | Sequence 16, Appl |
| 132 | 31 | 59.6 | 674 | 2 | US-09-252-991A-25462 | Sequence 25462, A |
| 133 | 31 | 59.6 | 685 | 2 | US-09-949-016-8627 | Sequence 8627, Ap |
| 134 | 31 | 59.6 | 833 | 2 | US-09-543-681A-4884 | Sequence 4884, Ap |
| 135 | 31 | 59.6 | 907 | 2 | US-09-949-016-9750 | Sequence 9750, Ap |
| 136 | 31 | 59.6 | 907 | 2 | US-09-949-016-9751 | Sequence 9751, Ap |
| 137 | 31 | 59.6 | 1610 | 2 | US-09-568-407-11 | Sequence 11, Appl |
| 138 | 31 | 59.6 | 1698 | 2 | US-09-315-793-12 | Sequence 12, Appl |
| 139 | 31 | 59.6 | 3854 | 2 | US-09-949-016-7876 | Sequence 7876, Ap |
| 140 | 31 | 59.6 | 4536 | 2 | US-09-180-422B-27 | Sequence 27, Appl |
| 141 | 31 | 59.6 | 4536 | 2 | US-09-079-030-1 | Sequence 1, Appli |
| 142 | 31 | 59.6 | 4563 | 2 | US-09-108-006C-1 | Sequence 1, Appli |
| 143 | 31 | 59.6 | 4563 | 2 | US-09-538-092-842 | Sequence 842, App |
| 144 | 30.5 | 58.7 | 357 | 2 | US-09-540-236-2852 | Sequence 2852, Ap |
| 145 | 30 | 57.7 | 9 | 2 | US-09-935-430-334 | Sequence 334, App |
| 146 | 30 | 57.7 | 10 | 2 | US-09-935-430-502 | Sequence 502, App |
| 147 | 30 | 57.7 | 10 | 2 | US-09-935-430-608 | Sequence 608, App |
| 148 | 30 | 57.7 | 53 | 2 | US-08-685-871-63 | Sequence 63, Appl |
| 149 | 30 | 57.7 | 77 | 2 | US-09-489-039A-14155 | Sequence 14155, A |
| 150 | 30 | 57.7 | 96 | 2 | US-09-270-767-57070 | Sequence 57070, A |
| 151 | 30 | 57.7 | 102 | 2 | US-09-902-540-14676 | Sequence 14676, A |
| 152 | 30 | 57.7 | 105 | 2 | US-09-732-210-231 | Sequence 231, App |
| 153 | 30 | 57.7 | 118 | 2 | US-09-198-452A-588 | Sequence 588, App |
| 154 | 30 | 57.7 | 136 | 2 | US-09-438-185A-551 | Sequence 551, App |
| 155 | 30 | 57.7 | 148 | 2 | US-09-248-796A-17068 | Sequence 17068, A |
| 156 | 30 | 57.7 | 182 | 2 | US-09-809-665A-121 | Sequence 121, App |
| 157 | 30 | 57.7 | 199 | 2 | US-09-809-665A-67 | Sequence 67, Appl |
| 158 | 30 | 57.7 | 215 | 2 | US-09-252-991A-21524 | Sequence 21524, A |
| 159 | 30 | 57.7 | 251 | 2 | US-09-583-110-2901 | Sequence 2901, Ap |
| 160 | 30 | 57.7 | 257 | 2 | US-09-107-532A-5965 | Sequence 5965, Ap |
| 161 | 30 | 57.7 | 258 | 2 | US-09-107-532A-6144 | Sequence 6144, Ap |
| 162 | 30 | 57.7 | 260 | 2 | US-09-107-433-3239 | Sequence 3239, Ap |
| 163 | 30 | 57.7 | 266 | 2 | US-09-439-313-534 | Sequence 534, App |
| 164 | 30 | 57.7 | 266 | 2 | US-09-636-215-534 | Sequence 534, App |
| 165 | 30 | 57.7 | 266 | 2 | US-09-685-166A-534 | Sequence 534, App |
| 166 | 30 | 57.7 | 266 | 2 | US-09-679-426-534 | Sequence 534, App |
| 167 | 30 | 57.7 | 266 | 2 | US-09-759-143-534 | Sequence 534, App |
| 168 | 30 | 57.7 | 266 | 2 | US-09-651-236-534 | Sequence 534, App |
| 169 | 30 | 57.7 | 266 | 2 | US-09-657-279-534 | Sequence 534, App |
| 170 | 30 | 57.7 | 266 | 2 | US-10-012-896-534 | Sequence 534, App |
| 171 | 30 | 57.7 | 301 | 2 | US-09-134-001C-4305 | Sequence 4305, Ap |
| 172 | 30 | 57.7 | 314 | 2 | US-09-964-956-31 | Sequence 31, Appl |
| 173 | 30 | 57.7 | 330 | 2 | US-09-725-957-18 | Sequence 18, Appl |
| 174 | 30 | 57.7 | 332 | 2 | US-09-710-279-2350 | Sequence 2350, Ap |
| 175 | 30 | 57.7 | 384 | 2 | US-09-270-767-41825 | Sequence 41825, A |
| 176 | 30 | 57.7 | 385 | 2 | US-09-252-991A-18352 | Sequence 18352, A |
| 177 | 30 | 57.7 | 389 | 2 | US-09-725-957-16 | Sequence 16, Appl |
| 178 | 30 | 57.7 | 396 | 2 | US-09-809-665A-115 | Sequence 115, App |
| 179 | 30 | 57.7 | 397 | 2 | US-09-252-991A-18709 | Sequence 18709, A |
| 180 | 30 | 57.7 | 398 | 2 | US-09-809-665A-50 | Sequence 50, Appl |
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| 182 | 30 | 57.7 | 418 | 2 | US-09-107-532A-6158 | Sequence 6158, Ap |
| 183 | 30 | 57.7 | 442 | 2 | US-09-198-452A-751 | Sequence 751, App |
| 184 | 30 | 57.7 | 444 | 2 | US-09-438-185A-709 | Sequence 709, App |
| 185 | 30 | 57.7 | 456 | 2 | US-10-154-515A-27 | Sequence 27, Appl |
| 186 | 30 | 57.7 | 456 | 2 | US-10-122-706-27 | Sequence 27, Appl |
| 187 | 30 | 57.7 | 465 | 2 | US-09-543-681A-5337 | Sequence 5337, Ap |
| 188 | 30 | 57.7 | 514 | 2 | US-10-339-351-1 | Sequence 1, Appli |
| 189 | 30 | 57.7 | 514 | 2 | US-10-339-351-3 | Sequence 3, Appli |
| 190 | 30 | 57.7 | 549 | 2 | US-10-104-047-3152 | Sequence 3152, Ap |
| 191 | 30 | 57.7 | 554 | 2 | US-09-540-236-3778 | Sequence 3778, Ap |
| 192 | 30 | 57.7 | 557 | 2 | US-09-538-092-242 | Sequence 242, App |
| 193 | 30 | 57.7 | 641 | 1 | US-08-873-479-42 | Sequence 42, Appl |
| 194 | 30 | 57.7 | 677 | 2 | US-09-540-236-3700 | Sequence 3700, Ap |
| 195 | 30 | 57.7 | 692 | 2 | US-09-712-363-249 | Sequence 249, App |
| 196 | 30 | 57.7 | 699 | 2 | US-09-252-991A-17073 | Sequence 17073, A |
| 197 | 30 | 57.7 | 712 | 2 | US-09-489-039A-10736 | Sequence 10736, A |
| 198 | 30 | 57.7 | 713 | 2 | US-09-949-016-6674 | Sequence 6674, Ap |
| 199 | 30 | 57.7 | 714 | 2 | US-09-543-681A-6809 | Sequence 6809, Ap |
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| 201 | 30 | 57.7 | 735 | 2 | US-09-540-245A-9 | Sequence 9, Appli |
| 202 | 30 | 57.7 | 735 | 2 | US-09-540-153-9 | Sequence 9, Appli |
| 203 | 30 | 57.7 | 735 | 2 | US-10-289-776-9 | Sequence 9, Appli |
| 204 | 30 | 57.7 | 737 | 2 | US-09-949-016-7675 | Sequence 7675, Ap |
| 205 | 30 | 57.7 | 747 | 2 | US-09-543-681A-5697 | Sequence 5697, Ap |
| 206 | 30 | 57.7 | 749 | 2 | US-10-104-047-2622 | Sequence 2622, Ap |
| 207 | 30 | 57.7 | 798 | 2 | US-09-935-430-658 | Sequence 658, App |
| 208 | 30 | 57.7 | 798 | 2 | US-09-964-956-28 | Sequence 28, Appl |
| 209 | 30 | 57.7 | 837 | 2 | US-09-964-956-5 | Sequence 5, Appli |
| 210 | 30 | 57.7 | 841 | 2 | US-09-935-430-657 | Sequence 657, App |
| 211 | 30 | 57.7 | 841 | 2 | US-09-964-956-2 | Sequence 2, Appli |
| 212 | 30 | 57.7 | 915 | 2 | US-09-543-681A-5334 | Sequence 5334, Ap |
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| 214 | 30 | 57.7 | 1354 | 2 | US-08-685-871-2 | Sequence 2, Appli |
| 215 | 30 | 57.7 | 1886 | 2 | US-08-938-105-3 | Sequence 3, Appli |
| 216 | 30 | 57.7 | 1935 | 2 | US-09-538-092-916 | Sequence 916, App |
| 217 | 30 | 57.7 | 1937 | 2 | US-09-538-092-918 | Sequence 918, App |
| 218 | 30 | 57.7 | 1938 | 2 | US-09-949-016-6417 | Sequence 6417, Ap |
| 219 | 30 | 57.7 | 1939 | 2 | US-09-310-187A-1 | Sequence 1, Appli |
| 220 | 30 | 57.7 | 1939 | 2 | US-09-538-092-915 | Sequence 915, App |
| 221 | 30 | 57.7 | 1939 | 2 | US-09-538-092-917 | Sequence 917, App |
| 222 | 30 | 57.7 | 1939 | 2 | US-09-949-016-6925 | Sequence 6925, Ap |
| 223 | 30 | 57.7 | 1939 | 2 | US-09-949-016-11104 | Sequence 11104, A |
| 224 | 30 | 57.7 | 1940 | 2 | US-09-538-092-901 | Sequence 901, App |
| 225 | 30 | 57.7 | 1942 | 2 | US-09-949-016-8135 | Sequence 8135, Ap |
| 226 | 30 | 57.7 | 1944 | 2 | US-09-949-016-10929 | Sequence 10929, A |
| 227 | 30 | 57.7 | 1959 | 2 | US-09-949-016-8134 | Sequence 8134, Ap |
| 228 | 30 | 57.7 | 1963 | 2 | US-09-949-016-8888 | Sequence 8888, Ap |
| 229 | 30 | 57.7 | 2188 | 2 | US-09-328-352-7763 | Sequence 7763, Ap |
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| 234 | 29 | 55.8 | 34 | 2 | US-10-004-860-1203 | Sequence 1203, Ap |
| 235 | 29 | 55.8 | 64 | 2 | US-09-621-976-6413 | Sequence 6413, Ap |
| 236 | 29 | 55.8 | 73 | 1 | US-07-609-716-109 | Sequence 109, App |
| 237 | 29 | 55.8 | 73 | 1 | US-07-609-716-110 | Sequence 110, App |
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| 239 | 29 | 55.8 | 73 | 2 | US-08-475-411A-110 | Sequence 110, App |
| 240 | 29 | 55.8 | 73 | 2 | US-08-478-029A-109 | Sequence 109, App |
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| 243 | 29 | 55.8 | 89 | 2 | US-09-252-991A-31888 | Sequence 31888, A |
| 244 | 29 | 55.8 | 103 | 2 | US-09-732-210-1127 | Sequence 1127, Ap |
| 245 | 29 | 55.8 | 105 | 2 | US-09-732-210-1126 | Sequence 1126, Ap |
| 246 | 29 | 55.8 | 105 | 2 | US-09-732-210-1128 | Sequence 1128, Ap |

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| 247 | 29 | 55.8 | 105 | 2 | US-09-732-210-1287 | Sequence 1287, Ap |
| 248 | 29 | 55.8 | 105 | 2 | US-09-732-210-1291 | Sequence 1291, Ap |
| 249 | 29 | 55.8 | 133 | 2 | US-09-134-001C-3883 | Sequence 3883, Ap |
| 250 | 29 | 55.8 | 142 | 1 | US-07-609-716-100 | Sequence 100, App |
| 251 | 29 | 55.8 | 142 | 2 | US-08-475-411A-100 | Sequence 100, App |
| 252 | 29 | 55.8 | 142 | 2 | US-08-478-029A-100 | Sequence 100, App |
| 253 | 29 | 55.8 | 160 | 2 | US-09-270-767-49066 | Sequence 49066, A |
| 254 | 29 | 55.8 | 161 | 2 | US-09-270-767-33849 | Sequence 33849, A |
| 255 | 29 | 55.8 | 165 | 2 | US-09-270-767-31740 | Sequence 31740, A |
| 256 | 29 | 55.8 | 165 | 2 | US-09-270-767-46957 | Sequence 46957, A |
| 257 | 29 | 55.8 | 169 | 2 | US-09-270-767-38589 | Sequence 38589, A |
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| 259 | 29 | 55.8 | 171 | 2 | US-09-205-258-481 | Sequence 481, App |
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| 263 | 29 | 55.8 | 193 | 2 | US-09-107-532A-5889 | Sequence 5889, Ap |
| 264 | 29 | 55.8 | 194 | 2 | US-09-248-796A-16334 | Sequence 16334, A |
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| 267 | 29 | 55.8 | 260 | 2 | US-09-906-393A-18 | Sequence 18, Appl |
| 268 | 29 | 55.8 | 261 | 2 | US-09-107-532A-4856 | Sequence 4856, Ap |
| 269 | 29 | 55.8 | 271 | 2 | US-09-252-991A-30733 | Sequence 30733, A |
| 270 | 29 | 55.8 | 277 | 2 | US-09-134-001C-5291 | Sequence 5291, Ap |
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| 275 | 29 | 55.8 | 297 | 2 | US-09-252-991A-28075 | Sequence 28075, A |
| 276 | 29 | 55.8 | 298 | 2 | US-09-328-352-7474 | Sequence 7474, Ap |
| 277 | 29 | 55.8 | 307 | 2 | US-09-270-767-35320 | Sequence 35320, A |
| 278 | 29 | 55.8 | 307 | 2 | US-09-270-767-50537 | Sequence 50537, A |
| 279 | 29 | 55.8 | 317 | 2 | US-09-489-039A-7620 | Sequence 7620, Ap |
| 280 | 29 | 55.8 | 341 | 1 | US-08-836-854-14 | Sequence 14, Appl |
| 281 | 29 | 55.8 | 342 | 2 | US-10-104-047-2985 | Sequence 2985, Ap |
| 282 | 29 | 55.8 | 345 | 2 | US-09-710-279-3168 | Sequence 3168, Ap |
| 283 | 29 | 55.8 | 350 | 2 | US-09-328-352-4676 | Sequence 4676, Ap |
| 284 | 29 | 55.8 | 350 | 2 | US-09-540-236-3626 | Sequence 3626, Ap |
| 285 | 29 | 55.8 | 353 | 2 | US-09-252-991A-22881 | Sequence 22881, A |
| 286 | 29 | 55.8 | 371 | 2 | US-09-543-681A-4389 | Sequence 4389, Ap |
| 287 | 29 | 55.8 | 404 | 2 | US-09-134-001C-4187 | Sequence 4187, Ap |
| 288 | 29 | 55.8 | 406 | 2 | US-10-154-515A-25 | Sequence 25, Appl |
| 289 | 29 | 55.8 | 406 | 2 | US-10-122-706-25 | Sequence 25, Appl |
| 290 | 29 | 55.8 | 415 | 2 | US-10-104-047-2624 | Sequence 2624, Ap |
| 291 | 29 | 55.8 | 417 | 2 | US-09-251-645-2 | Sequence 2, Appli |
| 292 | 29 | 55.8 | 437 | 2 | US-09-134-001C-5396 | Sequence 5396, Ap |
| 293 | 29 | 55.8 | 454 | 2 | US-09-902-540-12501 | Sequence 12501, A |
| 294 | 29 | 55.8 | 469 | 2 | US-09-538-092-1195 | Sequence 1195, Ap |
| 295 | 29 | 55.8 | 478 | 2 | US-09-147-522-2 | Sequence 2, Appli |
| 296 | 29 | 55.8 | 478 | 2 | US-09-949-016-5974 | Sequence 5974, Ap |
| 297 | 29 | 55.8 | 486 | 2 | US-09-147-522-4 | Sequence 4, Appli |
| 298 | 29 | 55.8 | 486 | 2 | US-09-147-522-6 | Sequence 6, Appli |
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| 304 | 29 | 55.8 | 512 | 2 | US-09-252-991A-23219 | Sequence 23219, A |
| 305 | 29 | 55.8 | 525 | 2 | US-10-002-344A-201 | Sequence 201, App |
| 306 | 29 | 55.8 | 528 | 2 | US-09-487-558B-412 | Sequence 412, App |
| 307 | 29 | 55.8 | 543 | 2 | US-09-362-123A-4 | Sequence 4, Appli |
| 308 | 29 | 55.8 | 567 | 2 | US-09-270-767-45121 | Sequence 45121, A |
| 309 | 29 | 55.8 | 573 | 2 | US-09-252-991A-31661 | Sequence 31661, A |
| 310 | 29 | 55.8 | 577 | 1 | US-08-852-153-4 | Sequence 4, Appli |
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| 312 | 29 | 55.8 | 578 | 2 | US-10-418-036-8 | Sequence 8, Appli |
| 313 | 29 | 55.8 | 591 | 1 | US-08-852-153-6 | Sequence 6, Appli |
| 314 | 29 | 55.8 | 613 | 1 | US-08-915-207-2 | Sequence 2, Appli |
| 315 | 29 | 55.8 | 613 | 1 | US-08-915-207-4 | Sequence 4, Appli |
| 316 | 29 | 55.8 | 613 | 2 | US-09-238-555-2 | Sequence 2, Appli |
| 317 | 29 | 55.8 | 613 | 2 | US-09-238-555-4 | Sequence 4, Appli |
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| 320 | 29 | 55.8 | 620 | 1 | US-08-852-153-2 | Sequence 2, Appli |
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| 322 | 29 | 55.8 | 659 | 1 | US-08-198-446B-13 | Sequence 13, Appl |
| 323 | 29 | 55.8 | 659 | 1 | US-08-870-693-13 | Sequence 13, Appl |
| 324 | 29 | 55.8 | 659 | 2 | US-09-292-858B-21 | Sequence 21, Appl |
| 325 | 29 | 55.8 | 664 | 1 | US-08-852-153-8 | Sequence 8, Appli |
| 326 | 29 | 55.8 | 671 | 2 | US-09-121-321-16 | Sequence 16, Appl |
| 327 | 29 | 55.8 | 671 | 2 | US-08-933-803A-16 | Sequence 16, Appl |
| 328 | 29 | 55.8 | 703 | 2 | US-08-311-731A-152 | Sequence 152, App |
| 329 | 29 | 55.8 | 711 | 2 | US-09-543-681A-6820 | Sequence 6820, Ap |
| 330 | 29 | 55.8 | 745 | 2 | US-09-792-024-96 | Sequence 96, Appl |
| 331 | 29 | 55.8 | 808 | 2 | US-08-971-188-12 | Sequence 12, Appl |
| 332 | 29 | 55.8 | 808 | 2 | US-09-402-936-12 | Sequence 12, Appl |
| 333 | 29 | 55.8 | 810 | 2 | US-09-538-092-1275 | Sequence 1275, Ap |
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| 335 | 29 | 55.8 | 848 | 1 | US-08-045-806-4 | Sequence 4, Appli |
| 336 | 29 | 55.8 | 848 | 1 | US-08-366-051B-4 | Sequence 4, Appli |
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| 343 | 29 | 55.8 | 970 | 2 | US-09-198-452A-906 | Sequence 906, App |
| 344 | 29 | 55.8 | 974 | 2 | US-09-438-185A-843 | Sequence 843, App |
| 345 | 29 | 55.8 | 1014 | 2 | US-09-762-724-2 | Sequence 2, Appli |
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| 351 | 29 | 55.8 | 1211 | 2 | US-09-949-016-11401 | Sequence 11401, A |
| 352 | 29 | 55.8 | 1211 | 2 | US-09-949-002-401 | Sequence 401, App |
| 353 | 29 | 55.8 | 1211 | 2 | US-09-949-002-555 | Sequence 555, App |
| 354 | 29 | 55.8 | 1237 | 2 | US-09-862-027-78 | Sequence 78, Appl |
| 355 | 29 | 55.8 | 1262 | 2 | US-09-198-452A-97 | Sequence 97, Appl |
| 356 | 29 | 55.8 | 1266 | 2 | US-09-438-185A-83 | Sequence 83, Appl |
| 357 | 29 | 55.8 | 1308 | 2 | US-09-862-027-79 | Sequence 79, Appl |
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| 359 | 29 | 55.8 | 1614 | 2 | US-09-052-469-2 | Sequence 2, Appli |
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| 376 | 28 | 53.8 | 10 | 2 | US-09-935-430-363 | Sequence 363, App |
| 377 | 28 | 53.8 | 12 | 1 | US-08-973-563A-36 | Sequence 36, Appl |
| 378 | 28 | 53.8 | 12 | 1 | US-08-973-559-36 | Sequence 36, Appl |
| 379 | 28 | 53.8 | 12 | 2 | US-09-226-666-13 | Sequence 13, Appl |
| 380 | 28 | 53.8 | 13 | 2 | US-07-927-391-1 | Sequence 1, Appli |
| 381 | 28 | 53.8 | 14 | 1 | US-08-127-499A-39 | Sequence 39, Appl |
| 382 | 28 | 53.8 | 14 | 1 | US-08-482-847-39 | Sequence 39, Appl |
| 383 | 28 | 53.8 | 14 | 2 | US-10-122-675-10 | Sequence 10, Appl |
| 384 | 28 | 53.8 | 26 | 2 | US-09-962-756-360 | Sequence 360, App |
| 385 | 28 | 53.8 | 28 | 2 | US-09-600-502A-16 | Sequence 16, Appl |
| 386 | 28 | 53.8 | 28 | 2 | US-09-586-937-53 | Sequence 53, Appl |
| 387 | 28 | 53.8 | 29 | 2 | US-08-648-322-11 | Sequence 11, Appl |
| 388 | 28 | 53.8 | 29 | 2 | US-08-857-389-11 | Sequence 11, Appl |
| 389 | 28 | 53.8 | 29 | 2 | US-09-766-396-11 | Sequence 11, Appl |
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| 391 | 28 | 53.8 | 35 | 1 | US-08-460-602A-74 | Sequence 74, Appl |
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| 396 | 28 | 53.8 | 35 | 1 | US-08-467-881A-74 | Sequence 74, Appl |
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| 413 | 28 | 53.8 | 76 | 2 | US-09-717-209-19 | Sequence 19, Appl |
| 414 | 28 | 53.8 | 76 | 2 | US-09-043-861-33 | Sequence 33, Appl |
| 415 | 28 | 53.8 | 76 | 2 | US-10-125-451-19 | Sequence 19, Appl |
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| 462 | 28 | 53.8 | 180 | 2 | US-09-252-991A-19843 | Sequence 19843, A |
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| 489 | 28 | 53.8 | 300 | 2 | US-09-438-185A-409 | Sequence 409, App |
| 490 | 28 | 53.8 | 313 | 2 | US-09-248-796A-18880 | Sequence 18880, A |
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| 497 | 28 | 53.8 | 361 | 2 | US-09-646-028-14 | Sequence 14, Appl |
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| 499 | 28 | 53.8 | 376 | 2 | US-09-248-796A-20505 | Sequence 20505, A |
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| 528 | 28 | 53.8 | 465 | 1 | US-08-588-983-22 | Sequence 22, Appl |
| 529 | 28 | 53.8 | 465 | 1 | US-08-588-976-20 | Sequence 20, Appl |
| 530 | 28 | 53.8 | 465 | 1 | US-08-588-976-22 | Sequence 22, Appl |
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| 536 | 28 | 53.8 | 480 | 1 | US-08-659-235C-10 | Sequence 10, Appl |
| 537 | 28 | 53.8 | 481 | 2 | US-09-130-491-8 | Sequence 8, Appli |
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| 570 | 28 | 53.8 | 560 | 2 | US-09-480-884A-225 | Sequence 225, App |
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| 590 | 28 | 53.8 | 627 | 2 | US-09-868-839-4 | Sequence 4, Appli |
| 591 | 28 | 53.8 | 627 | 2 | US-09-868-839-7 | Sequence 7, Appli |
| 592 | 28 | 53.8 | 644 | 2 | US-09-198-452A-785 | Sequence 785, App |
| 593 | 28 | 53.8 | 653 | 2 | US-09-198-452A-439 | Sequence 439, App |
| 594 | 28 | 53.8 | 656 | 2 | US-09-248-796A-15211 | Sequence 15211, A |
| 595 | 28 | 53.8 | 665 | 2 | US-09-949-016-7508 | Sequence 7508, Ap |
| 596 | 28 | 53.8 | 668 | 2 | US-09-538-092-599 | Sequence 599, App |
| 597 | 28 | 53.8 | 674 | 2 | US-09-438-185A-421 | Sequence 421, App |
| 598 | 28 | 53.8 | 682 | 2 | US-09-107-532A-4499 | Sequence 4499, Ap |
| 599 | 28 | 53.8 | 692 | 2 | US-10-318-308-1 | Sequence 1, Appli |
| 600 | 28 | 53.8 | 698 | 2 | US-09-949-016-11419 | Sequence 11419, A |
| 601 | 28 | 53.8 | 717 | 2 | US-09-881-578A-2 | Sequence 2, Appli |
| 602 | 28 | 53.8 | 718 | 1 | US-08-560-398-12 | Sequence 12, Appl |
| 603 | 28 | 53.8 | 723 | 2 | US-09-252-991A-29659 | Sequence 29659, A |
| 604 | 28 | 53.8 | 733 | 2 | US-09-328-352-6242 | Sequence 6242, Ap |
| 605 | 28 | 53.8 | 749 | 2 | US-09-949-016-8645 | Sequence 8645, Ap |
| 606 | 28 | 53.8 | 749 | 2 | US-09-949-016-8646 | Sequence 8646, Ap |
| 607 | 28 | 53.8 | 749 | 2 | US-09-949-016-8647 | Sequence 8647, Ap |
| 608 | 28 | 53.8 | 749 | 2 | US-09-949-016-8648 | Sequence 8648, Ap |
| 609 | 28 | 53.8 | 766 | 2 | US-09-949-016-11355 | Sequence 11355, A |
| 610 | 28 | 53.8 | 766 | 2 | US-09-949-016-11356 | Sequence 11356, A |
| 611 | 28 | 53.8 | 766 | 2 | US-09-949-016-11357 | Sequence 11357, A |
| 612 | 28 | 53.8 | 766 | 2 | US-09-949-016-11358 | Sequence 11358, A |
| 613 | 28 | 53.8 | 809 | 2 | US-09-489-039A-12275 | Sequence 12275, A |
| 614 | 28 | 53.8 | 816 | 2 | US-10-104-047-2341 | Sequence 2341, Ap |
| 615 | 28 | 53.8 | 871 | 2 | US-09-252-991A-32613 | Sequence 32613, A |
| 616 | 28 | 53.8 | 887 | 2 | US-09-949-002-534 | Sequence 534, App |
| 617 | 28 | 53.8 | 890 | 2 | US-09-949-002-394 | Sequence 394, App |
| 618 | 28 | 53.8 | 902 | 2 | US-09-270-767-43918 | Sequence 43918, A |
| 619 | 28 | 53.8 | 905 | 2 | US-09-369-364A-9 | Sequence 9, Appli |
| 620 | 28 | 53.8 | 905 | 2 | US-09-252-991A-24109 | Sequence 24109, A |
| 621 | 28 | 53.8 | 912 | 2 | US-09-252-991A-24163 | Sequence 24163, A |
| 622 | 28 | 53.8 | 919 | 1 | US-08-588-983-9 | Sequence 9, Appli |
| 623 | 28 | 53.8 | 919 | 1 | US-08-588-983-12 | Sequence 12, Appl |
| 624 | 28 | 53.8 | 919 | 1 | US-08-588-976-9 | Sequence 9, Appli |
| 625 | 28 | 53.8 | 919 | 1 | US-08-588-976-12 | Sequence 12, Appl |
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| 627 | 28 | 53.8 | 945 | 2 | US-09-949-016-9945 | Sequence 9945, Ap |
| 628 | 28 | 53.8 | 1021 | 1 | US-08-497-025-3 | Sequence 3, Appli |
| 629 | 28 | 53.8 | 1021 | 2 | US-09-949-002-363 | Sequence 363, App |
| 630 | 28 | 53.8 | 1024 | 2 | US-09-949-002-523 | Sequence 523, App |
| 631 | 28 | 53.8 | 1096 | 2 | US-09-438-185A-739 | Sequence 739, App |
| 632 | 28 | 53.8 | 1244 | 2 | US-09-538-092-12 | Sequence 12, Appl |
| 633 | 28 | 53.8 | 1258 | 2 | US-09-538-092-886 | Sequence 886, App |
| 634 | 28 | 53.8 | 1388 | 1 | US-08-685-576-1 | Sequence 1, Appli |
| 635 | 28 | 53.8 | 1388 | 1 | US-08-685-576-4 | Sequence 4, Appli |
| 636 | 28 | 53.8 | 1388 | 2 | US-09-976-594-296 | Sequence 296, App |
| 637 | 28 | 53.8 | 1493 | 2 | US-09-538-092-1263 | Sequence 1263, Ap |
| 638 | 28 | 53.8 | 1596 | 2 | US-09-538-092-887 | Sequence 887, App |
| 639 | 28 | 53.8 | 2451 | 2 | US-09-949-016-9675 | Sequence 9675, Ap |
| 640 | 28 | 53.8 | 2453 | 2 | US-09-632-033B-4 | Sequence 4, Appli |
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| 645 | 27 | 51.9 | 12 | 1 | US-08-973-563A-37 | Sequence 37, Appl |
| 646 | 27 | 51.9 | 12 | 1 | US-08-973-559-25 | Sequence 25, Appl |
| 647 | 27 | 51.9 | 12 | 1 | US-08-973-559-37 | Sequence 37, Appl |
| 648 | 27 | 51.9 | 12 | 2 | US-08-993-235-5 | Sequence 5, Appli |
| 649 | 27 | 51.9 | 12 | 2 | US-09-226-666-14 | Sequence 14, Appl |
| 650 | 27 | 51.9 | 12 | 2 | US-08-993-235-5 | Sequence 5, Appli |
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| 655 | 27 | 51.9 | 41 | 2 | US-08-640-737-41 | Sequence 41, Appl |
| 656 | 27 | 51.9 | 42 | 2 | US-09-270-767-59024 | Sequence 59024, A |
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| 658 | 27 | 51.9 | 48 | 2 | US-10-178-213-138 | Sequence 138, App |
| 659 | 27 | 51.9 | 53 | 2 | US-09-270-767-41335 | Sequence 41335, A |
| 660 | 27 | 51.9 | 53 | 2 | US-09-270-767-56551 | Sequence 56551, A |
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| 667 | 27 | 51.9 | 62 | 2 | US-09-583-110-5020 | Sequence 5020, Ap |
| 668 | 27 | 51.9 | 62 | 2 | US-09-107-433-3459 | Sequence 3459, Ap |
| 669 | 27 | 51.9 | 63 | 2 | US-09-489-039A-8122 | Sequence 8122, Ap |
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| 675 | 27 | 51.9 | 71 | 2 | US-09-107-532A-6459 | Sequence 6459, Ap |
| 676 | 27 | 51.9 | 72 | 2 | US-09-107-532A-4881 | Sequence 4881, Ap |
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| 682 | 27 | 51.9 | 90 | 2 | US-09-473-551-23 | Sequence 23, Appl |
| 683 | 27 | 51.9 | 90 | 2 | US-09-473-551-24 | Sequence 24, Appl |
| 684 | 27 | 51.9 | 92 | 2 | US-09-489-039A-12253 | Sequence 12253, A |

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| 705 | 27 | 51.9 | 130 | 2 | US-09-270-767-56351 | Sequence 56351, A |
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| 710 | 27 | 51.9 | 144 | 2 | US-09-583-110-3918 | Sequence 3918, Ap |
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| 712 | 27 | 51.9 | 145 | 2 | US-09-134-001C-3901 | Sequence 3901, Ap |
| 713 | 27 | 51.9 | 152 | 2 | US-09-861-451A-66 | Sequence 66, Appl |
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| 716 | 27 | 51.9 | 159 | 2 | US-09-248-796A-19133 | Sequence 19133, A |
| 717 | 27 | 51.9 | 159 | 2 | US-09-248-796A-21459 | Sequence 21459, A |
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| 719 | 27 | 51.9 | 165 | 2 | US-09-270-767-33068 | Sequence 33068, A |
| 720 | 27 | 51.9 | 165 | 2 | US-09-270-767-48285 | Sequence 48285, A |
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| 724 | 27 | 51.9 | 172 | 2 | US-09-902-540-14973 | Sequence 14973, A |
| 725 | 27 | 51.9 | 176 | 2 | US-09-538-092-803 | Sequence 803, App |
| 726 | 27 | 51.9 | 178 | 2 | US-09-513-999C-4157 | Sequence 4157, Ap |
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| 728 | 27 | 51.9 | 188 | 2 | US-09-489-039A-8898 | Sequence 8898, Ap |
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| 752 | 27 | 51.9 | 229 | 2 | US-09-997-333-373 | Sequence 373, App |
| 753 | 27 | 51.9 | 229 | 2 | US-09-992-598-373 | Sequence 373, App |
| 754 | 27 | 51.9 | 230 | 2 | US-09-625-188-18 | Sequence 18, Appl |
| 755 | 27 | 51.9 | 230 | 2 | US-09-270-767-32082 | Sequence 32082, A |
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| 757 | 27 | 51.9 | 235 | 2 | US-09-328-352-4801 | Sequence 4801, Ap |
| 758 | 27 | 51.9 | 237 | 2 | US-09-134-001C-5656 | Sequence 5656, Ap |
| 759 | 27 | 51.9 | 240 | 1 | US-08-261-822A-81 | Sequence 81, Appl |
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| 761 | 27 | 51.9 | 241 | 2 | US-10-104-047-2317 | Sequence 2317, Ap |
| 762 | 27 | 51.9 | 245 | 2 | US-09-461-325-367 | Sequence 367, App |
| 763 | 27 | 51.9 | 245 | 2 | US-10-012-542-367 | Sequence 367, App |
| 764 | 27 | 51.9 | 245 | 2 | US-09-270-767-43855 | Sequence 43855, A |
| 765 | 27 | 51.9 | 245 | 2 | US-10-115-123-367 | Sequence 367, App |
| 766 | 27 | 51.9 | 245 | 2 | US-09-902-540-11165 | Sequence 11165, A |
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| 768 | 27 | 51.9 | 247 | 2 | US-09-902-540-13351 | Sequence 13351, A |
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| 770 | 27 | 51.9 | 251 | 2 | US-09-107-532A-5498 | Sequence 5498, Ap |
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| 772 | 27 | 51.9 | 254 | 2 | US-09-252-991A-23519 | Sequence 23519, A |
| 773 | 27 | 51.9 | 254 | 2 | US-09-902-540-11338 | Sequence 11338, A |
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| 778 | 27 | 51.9 | 261 | 2 | US-09-602-787A-478 | Sequence 478, App |
| 779 | 27 | 51.9 | 266 | 2 | US-09-134-000C-3720 | Sequence 3720, Ap |
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| 782 | 27 | 51.9 | 271 | 2 | US-09-902-540-13493 | Sequence 13493, A |
| 783 | 27 | 51.9 | 274 | 2 | US-09-270-767-44822 | Sequence 44822, A |
| 784 | 27 | 51.9 | 277 | 1 | US-08-375-709-5 | Sequence 5, Appli |
| 785 | 27 | 51.9 | 277 | 1 | US-08-752-929-5 | Sequence 5, Appli |
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| 787 | 27 | 51.9 | 284 | 2 | US-09-149-476-416 | Sequence 416, App |
| 788 | 27 | 51.9 | 291 | 2 | US-09-198-452A-624 | Sequence 624, App |
| 789 | 27 | 51.9 | 291 | 2 | US-09-438-185A-584 | Sequence 584, App |
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| 791 | 27 | 51.9 | 295 | 2 | US-09-252-991A-20572 | Sequence 20572, A |
| 792 | 27 | 51.9 | 296 | 2 | US-09-248-796A-14696 | Sequence 14696, A |
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| 798 | 27 | 51.9 | 305 | 2 | US-09-270-767-44944 | Sequence 44944, A |
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| 802 | 27 | 51.9 | 306 | 1 | US-08-878-360-4 | Sequence 4, Appli |
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| 807 | 27 | 51.9 | 308 | 2 | US-10-104-047-2169 | Sequence 2169, Ap |
| 808 | 27 | 51.9 | 308 | 2 | US-10-104-047-2734 | Sequence 2734, Ap |
| 809 | 27 | 51.9 | 313 | 2 | US-09-198-452A-794 | Sequence 794, App |
| 810 | 27 | 51.9 | 314 | 2 | US-09-489-039A-12587 | Sequence 12587, A |
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| 817 | 27 | 51.9 | 332 | 2 | US-09-543-681A-5560 | Sequence 5560, Ap |
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| 823 | 27 | 51.9 | 345 | 2 | US-09-248-796A-25781 | Sequence 25781, A |
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| 825 | 27 | 51.9 | 347 | 2 | US-09-252-991A-25606 | Sequence 25606, A |
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| 997 | 27 | 51.9 | 636 | 2 | US-10-283-247-5 | Sequence 5, Appli |
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ALIGNMENTS

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RESULT 1
US-08-159-339A-223
; Sequence 223, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  223:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-223

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Db          1 HLDKKQRFH 9


RESULT 2
US-09-601-729-278
; Sequence 278, Application US/09601729
; Patent No. 6683052
; GENERAL INFORMATION:
;  APPLICANT: THIAM, KADER
;  APPLICANT:  AURIAULT, CLAUDE
;  APPLICANT:  GRAS-MASSE, HELENE
;  APPLICANT:  LOING, ESTELLE
;  APPLICANT:  VERWAERDE, CLAUDIE
;  APPLICANT:  GUILLET, JEAN GERARD
;  TITLE OF INVENTION: LIPOPEPTIDES CONTAINING AN INTERFERON FRAGMENT AND USES
;  TITLE OF INVENTION:  THEREOF IN PHARMACEUTICAL COMPOSITIONS
;  FILE REFERENCE: USB-97-AU-IN
;  CURRENT APPLICATION NUMBER: US/09/601,729
;  CURRENT FILING DATE:  2000-11-20
;  PRIOR APPLICATION NUMBER: PCT/FR99/00259
;  PRIOR FILING DATE: 1999-02-05
;  PRIOR APPLICATION NUMBER: 98 01439
;  PRIOR FILING DATE: 1998-02-06
;  NUMBER OF SEQ ID NOS: 281
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 278
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;   OTHER INFORMATION: peptide
US-09-601-729-278

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  Best Local Similarity  100.0%;  Pred. No. 0.0049;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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RESULT 3
US-09-980-523A-10
; Sequence 10, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
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; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-09-980-523A-10

Query Match 100.0%; Score 52; DB 2; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.0053;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 8 HLDKKQRFH 16

RESULT 4
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
; APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
; TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 F
; TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION
; FILE REFERENCE: N73477C GCW
; CURRENT APPLICATION NUMBER: US/09/701,080C
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: GB 9811303.8
; PRIOR FILING DATE: 1998-05-26
; PRIOR APPLICATION NUMBER: GB 9900157.0
; PRIOR FILING DATE: 1999-01-05
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-09-701-080C-18

Query Match 100.0%; Score 52; DB 2; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.032;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 118 HLDKKQRFH 126

RESULT 5
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: WOB1 AO INS
; CURRENT APPLICATION NUMBER: US/09/980,523A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-09-980-523A-2

Query Match 100.0%; Score 52; DB 2; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.033;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQRFH 9
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Db 125 HLDKKQRFH 133

RESULT 6
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; APPLICANT: Parmenter, Cheryl A.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; TITLE OF INVENTION: Cervical Cancer
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jagtiani & Associates
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; REFERENCE/DOCKET NUMBER: UNME-0001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 162 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
US-08-316-239B-3

Query Match 100.0%; Score 52; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.034;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQRFH 9
||||||||| 
Db 125 HLDKKQRFH 133

RESULT 7
US-08-316-239B-4

```
; Sequence 4, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
;   APPLICANT:  Wheeler, Cosette M.
;   APPLICANT:  Parmenter, Cheryl A.
;   TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;   TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;   TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;   TITLE OF INVENTION:  Cervical Cancer
;   NUMBER OF SEQUENCES:  4
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE:  Jagtiani & Associates
;     STREET:  6126 Rocky Way Court
;     CITY:  Centreville
;     STATE:  VA
;     COUNTRY:  USA
;     ZIP:  20120-3400
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE:  Floppy disk
;     COMPUTER:  IBM PC compatible
;     OPERATING SYSTEM:  PC-DOS/MS-DOS
;     SOFTWARE:  PatentIn Release #1.0, Version #1.30
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER:  US/08/316,239B
;     FILING DATE:  30-SEP-1994
;     CLASSIFICATION:  435
;   ATTORNEY/AGENT INFORMATION:
;     NAME:  Jagtiani, Ajay A.
;     REGISTRATION NUMBER:  35,205
;     REFERENCE/DOCKET NUMBER:  UNME-0001
;   TELECOMMUNICATION INFORMATION:
;     TELEPHONE:  (703) 817-9453
;     TELEFAX:  (703) 803-9387
; INFORMATION FOR SEQ ID NO:  4:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH:  162 amino acids
;     TYPE:  amino acid
;     STRANDEDNESS:  not relevant
;     TOPOLOGY:  not relevant
;   MOLECULE TYPE:  protein
;   HYPOTHETICAL:  NO
US-08-316-239B-4

  Query Match             100.0%;  Score 52;  DB 1;  Length 162;
  Best Local Similarity   100.0%;  Pred. No. 0.034;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        125 HLDKKQRFH 133


RESULT 8
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

  Query Match             100.0%;  Score 52;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.036;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db         63 HLDKKQRFH 71


RESULT 9
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-12

  Query Match             100.0%;  Score 52;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.036;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db         63 HLDKKQRFH 71


RESULT 10
US-08-117-083-10
; Sequence 10, Application US/08117083
; Patent No. 5719054
; GENERAL INFORMATION:
;   APPLICANT:  Boursnell, Michael E.
;   APPLICANT:  Inglis, Stephen C.
;   APPLICANT:  Munro, Alan J.
;   TITLE OF INVENTION:  Recombinant Virus Vectors Encoding Human
;   TITLE OF INVENTION:  Papilloma Virus Proteins
;   NUMBER OF SEQUENCES:  70
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE:  Walter H. Dreger
;     STREET:  4 Embarcadero Center, Suite 3400
;     CITY:  San Francisco
;     STATE:  CA
;     COUNTRY:  USA
;     ZIP:  94111
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE:  Floppy disk
;     COMPUTER:  IBM PC compatible
;     OPERATING SYSTEM:  PC-DOS/MS-DOS
```

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;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/117,083
;      FILING DATE:  10-SEP-1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Dreger, Walter H.
;      REGISTRATION NUMBER:  24,190
;      REFERENCE/DOCKET NUMBER:  A-58783
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-781-1989
;      TELEFAX:  415-398-3249
;      TELEX:  910 277299
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  182 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    FEATURE:
;      NAME/KEY:  Protein
;      LOCATION:  1..182
;      OTHER INFORMATION:  /note= "Xaa refers to stop codon in
;      OTHER INFORMATION:  the open reading frame."
US-08-117-083-10

  Query Match             100.0%;  Score 52;  DB 1;  Length 182;
  Best Local Similarity   100.0%;  Pred. No. 0.038;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db         86 HLDKKQRFH 94


RESULT 11
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
;  APPLICANT:  KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION:  ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE:  017753-122
;  CURRENT APPLICATION NUMBER: US/09/462,993
;  CURRENT FILING DATE:  2000-04-17
;  PRIOR APPLICATION NUMBER:  PCT/FR98/01576
;  PRIOR FILING DATE:  1998-07-17
;  PRIOR APPLICATION NUMBER:  FR 97/09152
;  PRIOR FILING DATE:  1997-07-18
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

  Query Match             100.0%;  Score 52;  DB 2;  Length 243;
  Best Local Similarity   100.0%;  Pred. No. 0.05;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        148 HLDKKQRFH 156


RESULT 12
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

  Query Match             100.0%;  Score 52;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.054;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        125 HLDKKQRFH 133


RESULT 13
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-10

  Query Match             100.0%;  Score 52;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.054;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        125 HLDKKQRFH 133
```

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RESULT 14
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 52;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.054;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        125 HLDKKQRFH 133


RESULT 15
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-4

  Query Match             100.0%;  Score 52;  DB 2;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 0.056;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        231 HLDKKQRFH 239


RESULT 16
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-10

  Query Match             100.0%;  Score 52;  DB 2;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.059;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        250 HLDKKQRFH 258


RESULT 17
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-6

  Query Match             100.0%;  Score 52;  DB 2;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 0.074;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        231 HLDKKQRFH 239


RESULT 18
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
```

```
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-14

  Query Match             100.0%;  Score 52;  DB 2;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 0.078;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        250 HLDKKQRFH 258


RESULT 19
US-08-934-915-166
; Sequence 166, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  166:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  21 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-166

  Query Match             90.4%;  Score 47;  DB 1;  Length 21;
  Best Local Similarity   88.9%;  Pred. No. 0.041;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              ||:||||||
Db          4 HLNKKQRFH 12


RESULT 20
US-07-909-122-5
; Sequence 5, Application US/07909122
; Patent No. 5415995
;  GENERAL INFORMATION:
;    APPLICANT:  SCHOOLNIK, GARY K.
;    APPLICANT:  PALEFSKY, JOEL M.
;    TITLE OF INVENTION:  DIAGNOSTIC PEPTIDES OF HUMAN PAPILLOMA
;    TITLE OF INVENTION:  VIRUS
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MORRISON & FOERSTER
;      STREET:  755 Page Mill Road
;      CITY:  Palo Alto
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94304-1018
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/909,122
;      FILING DATE:  19920706
;      CLASSIFICATION:  530
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  BENZ, WILLIAM H.
;      REGISTRATION NUMBER:  25,952
;      REFERENCE/DOCKET NUMBER:  28600-20105.01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 813-5600
;      TELEFAX:  (415) 494-0792
;      TELEX:  706141
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  10 amino acids
;      TYPE:  AMINO ACID
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
US-07-909-122-5

  Query Match             76.9%;  Score 40;  DB 1;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.39;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 DKKQRFH 9
              |||||||
Db          1 DKKQRFH 7


RESULT 21
US-08-247-904B-10
; Sequence 10, Application US/08247904B
; Patent No. 5981699
;  GENERAL INFORMATION:
;    APPLICANT:  Rolfe, Mark
;    APPLICANT:  Eckstein, Jens W.
;    APPLICANT:  Draetta, Giulio
;    TITLE OF INVENTION:  Human Ubiquitin Conjugating Enzyme
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Foley, Hoag & Eliot
```

```
;       STREET:  One Post Office Square
;       CITY:  Boston
;       STATE:  MA
;       COUNTRY:  USA
;       ZIP:  02109
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  ASCII(text)
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/247,904B
;       FILING DATE:  23-MAY-1994
;       CLASSIFICATION:  530
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Vincent, Matthew P.
;       REGISTRATION NUMBER:  36,709
;       REFERENCE/DOCKET NUMBER:  MIV-029.01
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (617) 832-1000
;       TELEFAX:  (617) 832-7000
;   INFORMATION FOR SEQ ID NO:  10:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  158 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-08-247-904B-10

  Query Match             75.0%;  Score 39;  DB 1;  Length 158;
  Best Local Similarity   66.7%;  Pred. No. 7.9;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              ||::|:|||
Db        120 HLNEKRRFH 128


RESULT 22
US-08-767-942A-19
; Sequence 19, Application US/08767942A
; Patent No. 6068982
;  GENERAL INFORMATION:
;    APPLICANT:  Rolfe, Mark
;    APPLICANT:  Chiu, M. Isabel
;    APPLICANT:  Berlin, Vivian
;    APPLICANT:  Damagnez, Veronique
;    APPLICANT:  Draetta, Giulio
;    APPLICANT:  Guillaume, Cottarel
;    TITLE OF INVENTION:  UBIQUITIN CONJUGATING ENZYMES
;    NUMBER OF SEQUENCES:  45
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  FOLEY, HOAG & ELIOT LLP
;      STREET:  One Post Office Square
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109-2170
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/767,942A
;      FILING DATE:  17-DEC-1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Vincent, Matthew P.
;      REGISTRATION NUMBER:  36,709
;      REFERENCE/DOCKET NUMBER:  MIV-029.04
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-832-1000
;      TELEFAX:  617-832-7000
;  INFORMATION FOR SEQ ID NO:  19:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  158 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-767-942A-19

  Query Match             75.0%;  Score 39;  DB 2;  Length 158;
  Best Local Similarity   66.7%;  Pred. No. 7.9;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              ||::|:|||
Db        120 HLNEKRRFH 128


RESULT 23
US-08-117-083-14
; Sequence 14, Application US/08117083
; Patent No. 5719054
;  GENERAL INFORMATION:
;    APPLICANT:  Boursnell, Michael E.
;    APPLICANT:  Inglis, Stephen C.
;    APPLICANT:  Munro, Alan J.
;    TITLE OF INVENTION:  Recombinant Virus Vectors Encoding Human
;    TITLE OF INVENTION:  Papilloma Virus Proteins
;    NUMBER OF SEQUENCES:  70
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Walter H. Dreger
;      STREET:  4 Embarcadero Center, Suite 3400
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/117,083
;      FILING DATE:  10-SEP-1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Dreger, Walter H.
;      REGISTRATION NUMBER:  24,190
;      REFERENCE/DOCKET NUMBER:  A-58783
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-781-1989
;      TELEFAX:  415-398-3249
;      TELEX:  910 277299
;  INFORMATION FOR SEQ ID NO:  14:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  271 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    FEATURE:
;      NAME/KEY:  Protein
;      LOCATION:  1..271
;      OTHER INFORMATION:  /note= "Xaa refers to stop codon in
;      OTHER INFORMATION:  the open reading frame."
US-08-117-083-14

  Query Match             75.0%;  Score 39;  DB 1;  Length 271;
  Best Local Similarity   66.7%;  Pred. No. 13;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              ||::|:|||
Db        121 HLNEKRRFH 129
```

```
RESULT 24
US-09-485-885-21
; Sequence 21, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 21
;    LENGTH: 278
;    TYPE: PRT
;    ORGANISM: Homo sapien
US-09-485-885-21

  Query Match             75.0%;  Score 39;  DB 2;  Length 278;
  Best Local Similarity   66.7%;  Pred. No. 13;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              ||::|:|||
Db        231 HLNEKRRFH 239


RESULT 25
US-09-485-885-23
; Sequence 23, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 23
;    LENGTH: 383
;    TYPE: PRT
;    ORGANISM: Homo sapien
US-09-485-885-23

  Query Match             75.0%;  Score 39;  DB 2;  Length 383;
  Best Local Similarity   66.7%;  Pred. No. 18;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              ||::|:|||
Db        231 HLNEKRRFH 239


RESULT 26
US-09-248-796A-17504
; Sequence 17504, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 17504
;    LENGTH: 362
;    TYPE: PRT
;    ORGANISM: Candida albicans
;    FEATURE:
;    NAME/KEY: UNSURE
;    LOCATION: (274)
;    OTHER INFORMATION: Identity of amino acid sequences at the above locations are unknov
US-09-248-796A-17504

  Query Match             71.2%;  Score 37;  DB 2;  Length 362;
  Best Local Similarity   66.7%;  Pred. No. 39;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              ||:|:| ||
Db         18 HLEKEQLFH 26


RESULT 27
US-09-513-999C-4563
; Sequence 4563, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
;  APPLICANT: Dumas Milne Edwards, J.B.
;  APPLICANT:  Duclert, A.
;  APPLICANT:  Giordano, J.Y.
;  TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
;  FILE REFERENCE: 59.US2.REG
;  CURRENT APPLICATION NUMBER: US/09/513,999C
;  CURRENT FILING DATE:  2000-02-24
;  PRIOR APPLICATION NUMBER: US 60/122,487
;  PRIOR FILING DATE: 1999-02-26
;  NUMBER OF SEQ ID NOS: 36681
;  SOFTWARE: Patent.pm
; SEQ ID NO 4563
;    LENGTH: 51
;    TYPE: PRT
;    ORGANISM: Homo sapiens
;    FEATURE:
;    NAME/KEY: SIGNAL
;    LOCATION: -34..-1
;    OTHER INFORMATION: score 3.8
;    OTHER INFORMATION: seq FHQMALXPGTSRA/QA
;    FEATURE:
;    NAME/KEY: UNSURE
;    LOCATION: -7
;    OTHER INFORMATION: Xaa=Phe or Ser
US-09-513-999C-4563

  Query Match             67.3%;  Score 35;  DB 2;  Length 51;
  Best Local Similarity   55.6%;  Pred. No. 15;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||: ::||
Db         15 HLDRYRKFH 23
```

```
RESULT 28
US-09-471-276-1426
; Sequence 1426, Application US/09471276
; Patent No. 6822072
; GENERAL INFORMATION:
;  APPLICANT: Dumas Milne Edwards, J.B.
;  APPLICANT: Duclert A.
;  APPLICANT: Giordano, J.Y.
;  TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6822072
;  FILE REFERENCE: GENSET.025CP1
;  CURRENT APPLICATION NUMBER: US/09/471,276
;  CURRENT FILING DATE: 1999-12-21
;  EARLIER APPLICATION NUMBER: 09/057,719
;  EARLIER FILING DATE: 1998-04-09
;  EARLIER APPLICATION NUMBER: 09/069,047
;  EARLIER FILING DATE: 1998-04-28
;  EARLIER APPLICATION NUMBER: PCT/IB99/00712
;  EARLIER FILING DATE: 1999-04-09
;  NUMBER OF SEQ ID NOS: 1622
;  SOFTWARE: Patent.pm
; SEQ ID NO 1426
;   LENGTH: 51
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SIGNAL
;   LOCATION: -34..-1
US-09-471-276-1426

  Query Match             67.3%;  Score 35;  DB 2;  Length 51;
  Best Local Similarity   55.6%;  Pred. No. 15;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||: ::||
Db         15 HLDRYRKFH 23


RESULT 29
US-08-007-107-2
; Sequence 2, Application US/08007107
; Patent No. 5837545
;  GENERAL INFORMATION:
;    APPLICANT:  Guy, Charles L.
;    APPLICANT:  Haskell, Dale W.
;    APPLICANT:  Hofig, Andrea
;    APPLICANT:  Neven, Lisa
;    TITLE OF INVENTION:  No. 5837545el Genes, Polypeptides, and
;    TITLE OF INVENTION:  Compositions for Cold Tolerance and Drought Resistance in
;    TITLE OF INVENTION:  Plants
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Saliwanchik & Saliwanchik
;      STREET:  2421 N.W. 41st Street, Suite A-1
;      CITY:  Gainesville
;      STATE:  FL
;      COUNTRY:  USA
;      ZIP:  32606
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/007,107
;      FILING DATE:  19930121
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Saliwanchik, David R.
;      REGISTRATION NUMBER:  31,794
;      REFERENCE/DOCKET NUMBER:  UF/S&S-109
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  904-375-8100
;      TELEFAX:  904-372-5800
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  535 amino acids
;      TYPE:  AMINO ACID
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-007-107-2

  Query Match             67.3%;  Score 35;  DB 1;  Length 535;
  Best Local Similarity   66.7%;  Pred. No. 1.3e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              | ||||  :|
Db        160 HEDKKQDYH 168


RESULT 30
US-09-489-039A-11091
; Sequence 11091, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
;  APPLICANT:  Gary Breton et. al
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
;  TITLE OF INVENTION:  PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  2709.2004001
;  CURRENT APPLICATION NUMBER: US/09/489,039A
;  CURRENT FILING DATE:  2000-01-27
;  PRIOR APPLICATION NUMBER:  US 60/117,747
;  PRIOR FILING DATE:  1999-01-29
;  NUMBER OF SEQ ID NOS:  14342
; SEQ ID NO 11091
;   LENGTH: 538
;   TYPE: PRT
;   ORGANISM: Klebsiella pneumoniae
US-09-489-039A-11091

  Query Match             67.3%;  Score 35;  DB 2;  Length 538;
  Best Local Similarity   55.6%;  Pred. No. 1.3e+02;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |: ::||||
Db        450 HMARQQRFH 458


RESULT 31
US-09-252-991A-32752
; Sequence 32752, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 32752
;   LENGTH: 805
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-32752
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Query Match 67.3%; Score 35; DB 2; Length 805;
Best Local Similarity 75.0%; Pred. No. 1.9e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LDKKQRFH 9
||:|| ||
Db 321 LDQKQNFH 328

RESULT 32
US-09-206-942-41
; Sequence 41, Application US/09206942
; Patent No. 6432669
; GENERAL INFORMATION:
; APPLICANT: Loosmore, Sheena M.
; APPLICANT: Yang, Yan-Ping
; APPLICANT: Klein, Michel H.
; TITLE OF INVENTION: Protective Recombinant Haemophilus Influenzae High
; TITLE OF INVENTION: Molecular Weight Proteins
; FILE REFERENCE: 1038-861 MIS:jb
; CURRENT APPLICATION NUMBER: US/09/206,942
; CURRENT FILING DATE: 1998-12-08
; EARLIER APPLICATION NUMBER: 09/167,568
; EARLIER FILING DATE: 1998-10-07
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 41
; LENGTH: 1005
; TYPE: PRT
; ORGANISM: Haemophilus influenzae
US-09-206-942-41

Query Match 67.3%; Score 35; DB 2; Length 1005;
Best Local Similarity 85.7%; Pred. No. 2.4e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQR 7
|||||:|
Db 413 HLDKKER 419

RESULT 33
US-10-193-764-41
; Sequence 41, Application US/10193764
; Patent No. 6849447
; GENERAL INFORMATION:
; APPLICANT: Loosmore, Sheena M.
; APPLICANT: Yang, Yan-Ping
; APPLICANT: Klein, Michel H.
; TITLE OF INVENTION: PROTECTIVE RECOMBINANT HAEMOPHILUS INFLUENZAE HIGH
; TITLE OF INVENTION: MOLECULAR WEIGHT PROTEINS
; FILE REFERENCE: 1038-1239MIS
; CURRENT APPLICATION NUMBER: US/10/193,764
; CURRENT FILING DATE: 2002-07-12
; PRIOR APPLICATION NUMBER: 09/167,568
; PRIOR FILING DATE: 1998-10-07
; NUMBER OF SEQ ID NOS: 91
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 41
; LENGTH: 1005
; TYPE: PRT
; ORGANISM: Haemophilus influenzae
US-10-193-764-41

Query Match 67.3%; Score 35; DB 2; Length 1005;
Best Local Similarity 85.7%; Pred. No. 2.4e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQR 7
|||||:|
Db 413 HLDKKER 419

RESULT 34
US-09-206-942-39
; Sequence 39, Application US/09206942
; Patent No. 6432669
; GENERAL INFORMATION:
; APPLICANT: Loosmore, Sheena M.
; APPLICANT: Yang, Yan-Ping
; APPLICANT: Klein, Michel H.
; TITLE OF INVENTION: Protective Recombinant Haemophilus Influenzae High
; TITLE OF INVENTION: Molecular Weight Proteins
; FILE REFERENCE: 1038-861 MIS:jb
; CURRENT APPLICATION NUMBER: US/09/206,942
; CURRENT FILING DATE: 1998-12-08
; EARLIER APPLICATION NUMBER: 09/167,568
; EARLIER FILING DATE: 1998-10-07
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 1011
; TYPE: PRT
; ORGANISM: Haemophilus influenzae
US-09-206-942-39

Query Match 67.3%; Score 35; DB 2; Length 1011;
Best Local Similarity 85.7%; Pred. No. 2.4e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQR 7
|||||:|
Db 419 HLDKKER 425

RESULT 35
US-10-193-764-39
; Sequence 39, Application US/10193764
; Patent No. 6849447
; GENERAL INFORMATION:
; APPLICANT: Loosmore, Sheena M.
; APPLICANT: Yang, Yan-Ping
; APPLICANT: Klein, Michel H.
; TITLE OF INVENTION: PROTECTIVE RECOMBINANT HAEMOPHILUS INFLUENZAE HIGH
; TITLE OF INVENTION: MOLECULAR WEIGHT PROTEINS
; FILE REFERENCE: 1038-1239MIS
; CURRENT APPLICATION NUMBER: US/10/193,764
; CURRENT FILING DATE: 2002-07-12
; PRIOR APPLICATION NUMBER: 09/167,568
; PRIOR FILING DATE: 1998-10-07
; NUMBER OF SEQ ID NOS: 91
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 1011
; TYPE: PRT
; ORGANISM: Haemophilus influenzae
US-10-193-764-39

Query Match 67.3%; Score 35; DB 2; Length 1011;
Best Local Similarity 85.7%; Pred. No. 2.4e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQR 7
|||||:|
Db 419 HLDKKER 425

RESULT 36
US-09-270-767-40463
; Sequence 40463, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767

```
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 40463
;    LENGTH: 181
;    TYPE: PRT
;    ORGANISM: Drosophila melanogaster
;    FEATURE:
;    OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-40463

  Query Match             65.4%;  Score 34;  DB 2;  Length 181;
  Best Local Similarity   75.0%;  Pred. No. 73;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 LDKKQRFH 9
              |||: |||
Db         30 LDKRGRFH 37


RESULT 37
US-09-270-767-55679
; Sequence 55679, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 55679
;    LENGTH: 181
;    TYPE: PRT
;    ORGANISM: Drosophila melanogaster
;    FEATURE:
;    OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-55679

  Query Match             65.4%;  Score 34;  DB 2;  Length 181;
  Best Local Similarity   75.0%;  Pred. No. 73;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 LDKKQRFH 9
              |||: |||
Db         30 LDKRGRFH 37


RESULT 38
US-09-252-991A-17455
; Sequence 17455, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 17455
;    LENGTH: 352
;    TYPE: PRT
;    ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17455

  Query Match             65.4%;  Score 34;  DB 2;  Length 352;
  Best Local Similarity   55.6%;  Pred. No. 1.4e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              | |::|| |
Db          6 HSDRRQRLH 14


RESULT 39
US-08-341-219-24
; Sequence 24, Application US/08341219
; Patent No. 5643877
;  GENERAL INFORMATION:
;    APPLICANT:  Zohar, Y.
;    APPLICANT:  Rivier, J.
;    APPLICANT:  Powell, J.
;    APPLICANT:  Sherwood, N.
;    APPLICANT:  Gothilf, Y.
;    TITLE OF INVENTION:  Compounds and Methods For Controlling
;    TITLE OF INVENTION:  Reproduction in Fish
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  N.Y.
;      COUNTRY:  USA
;      ZIP:  10036-2711
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/341,219
;      FILING DATE:  05-DEC-1994
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Coruzzi,, Laura A.
;      REGISTRATION NUMBER:  30742
;      REFERENCE/DOCKET NUMBER:  8399-003-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 790-9090
;      TELEFAX:  (212) 869-8864/9741
;  INFORMATION FOR SEQ ID NO:  24:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  90 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  peptide
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
US-08-341-219-24

  Query Match             63.5%;  Score 33;  DB 1;  Length 90;
  Best Local Similarity   62.5%;  Pred. No. 58;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRF 8
              | |:|:||
Db         80 HFDRKKRF 87


RESULT 40
US-08-912-314A-24
; Sequence 24, Application US/08912314A
; Patent No. 6210927
;  GENERAL INFORMATION:
;    APPLICANT:  Zohar, Y.
;    APPLICANT:  Rivier, J.
;    APPLICANT:  Powell, J.
;    APPLICANT:  Sherwood, N.
;    APPLICANT:  Gothilf, Y.
```

```
;    TITLE OF INVENTION:  Compounds and Methods For Controlling
;    TITLE OF INVENTION:  Reproduction in Fish
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Pennie & Edmonds
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  N.Y.
;      COUNTRY:  USA
;      ZIP:  10036-2711
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/912,314A
;      FILING DATE:  30-JUN-1997
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/341,219
;      FILING DATE:  05-DEC-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Coruzzi,, Laura A.
;      REGISTRATION NUMBER:  30742
;      REFERENCE/DOCKET NUMBER:  8399-003-999
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 790-9090
;      TELEFAX:  (212) 869-8864/9741
;  INFORMATION FOR SEQ ID NO:  24:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  90 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  peptide
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
US-08-912-314A-24

  Query Match             63.5%;  Score 33;  DB 2;  Length 90;
  Best Local Similarity   62.5%;  Pred. No. 58;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRF 8
              | |:|:||
Db         80 HFDRKKRF 87


RESULT 41
US-09-270-767-33151
; Sequence 33151, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 33151
;   LENGTH: 124
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
;   FEATURE:
;   OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-33151

  Query Match             63.5%;  Score 33;  DB 2;  Length 124;
  Best Local Similarity   100.0%;  Pred. No. 78;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQ 6
              ||||||
Db         49 HLDKKQ 54


RESULT 42
US-08-485-455D-67
; Sequence 67, Application US/08485455D
; Patent No. 5712143
;  GENERAL INFORMATION:
;    APPLICANT:  Grieve, Robert B.
;    APPLICANT:  Rushlow, Keith E.
;    APPLICANT:  Wu Hunter, Shirley
;    APPLICANT:  Frank, Glenn R.
;    APPLICANT:  Stiegler, Gary L.
;    TITLE OF INVENTION:  FLEA PROTEASE PROTEINS, NUCLEIC ACID
;    TITLE OF INVENTION:  MOLECULES, AND USES THEREOF
;    NUMBER OF SEQUENCES:  79
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sheridan Ross P.C.
;      STREET:  1700 Lincoln Street, Suite 3500
;      CITY:  Denver
;      STATE:  Colorado
;      COUNTRY:  USA
;      ZIP:  80203
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/485,455D
;      FILING DATE:  07-JUN-1995
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Connell, Gary J.
;      REGISTRATION NUMBER:  32,020
;      REFERENCE/DOCKET NUMBER:  2618-25-C1-3
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (303) 863-9700
;      TELEFAX:  (303) 863-0223
;  INFORMATION FOR SEQ ID NO:  67:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  130 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-485-455D-67

  Query Match             63.5%;  Score 33;  DB 1;  Length 130;
  Best Local Similarity   55.6%;  Pred. No. 81;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||:| |::
Db         88 HLDRKGRYY 96


RESULT 43
US-08-482-130C-67
; Sequence 67, Application US/08482130C
; Patent No. 5962257
;  GENERAL INFORMATION:
;    APPLICANT:  Grieve, Robert B.
;    APPLICANT:  Rushlow, Keith E.
;    APPLICANT:  Wu Hunter, Shirley
;    APPLICANT:  Frank, Glenn R.
;    APPLICANT:  Stiegler, Gary L.
;    TITLE OF INVENTION:  FLEA PROTEASE PROTEINS, NUCLEIC ACID
;    TITLE OF INVENTION:  MOLECULES, AND USES THEREOF
;    NUMBER OF SEQUENCES:  79
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sheridan Ross P.C.
```

```
;      STREET:  1700 Lincoln Street, Suite 3500
;      CITY:  Denver
;      STATE:  Colorado
;      COUNTRY:  USA
;      ZIP:  80203
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/482,130C
;      FILING DATE:  07-JUN-1995
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Connell, Gary J.
;      REGISTRATION NUMBER:  32,020
;      REFERENCE/DOCKET NUMBER:  2618-25-C1-1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (303) 863-9700
;      TELEFAX:  (303) 863-0223
;  INFORMATION FOR SEQ ID NO:  67:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  130 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-482-130C-67

  Query Match             63.5%;  Score 33;  DB 1;  Length 130;
  Best Local Similarity   55.6%;  Pred. No. 81;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||:| |::
Db         88 HLDRKGRYY 96


RESULT 44
US-08-484-211C-67
; Sequence 67, Application US/08484211C
; Patent No. 5972645
;  GENERAL INFORMATION:
;    APPLICANT:  Grieve, Robert B.
;    APPLICANT:  Rushlow, Keith E.
;    APPLICANT:  Wu Hunter, Shirley
;    APPLICANT:  Frank, Glenn R.
;    APPLICANT:  Stiegler, Gary L.
;    TITLE OF INVENTION:  FLEA PROTEASE PROTEINS, NUCLEIC ACID
;    TITLE OF INVENTION:  MOLECULES, AND USES THEREOF
;    NUMBER OF SEQUENCES:  79
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sheridan Ross P.C.
;      STREET:  1700 Lincoln Street, Suite 3500
;      CITY:  Denver
;      STATE:  Colorado
;      COUNTRY:  USA
;      ZIP:  80203
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/484,211C
;      FILING DATE:  07-JUN-1995
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Connell, Gary J.
;      REGISTRATION NUMBER:  32,020
;      REFERENCE/DOCKET NUMBER:  2618-25-C1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (303) 863-9700
;      TELEFAX:  (303) 863-0223
;  INFORMATION FOR SEQ ID NO:  67:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  130 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-484-211C-67

  Query Match             63.5%;  Score 33;  DB 1;  Length 130;
  Best Local Similarity   55.6%;  Pred. No. 81;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||:| |::
Db         88 HLDRKGRYY 96


RESULT 45
US-08-906-769-67
; Sequence 67, Application US/08906769
; Patent No. 6077687
;  GENERAL INFORMATION:
;    APPLICANT:  Grieve, Robert B.
;    APPLICANT:  Rushlow, Keith E.
;    APPLICANT:  Wu Hunter, Shirley
;    APPLICANT:  Frank, Glenn R.
;    APPLICANT:  Stiegler, Gary
;    APPLICANT:  Gaines, Patrick J.
;    APPLICANT:  Silver, Gary
;    TITLE OF INVENTION:  FLEA PROTEASE PROTEINS, NUCLEIC ACID
;    TITLE OF INVENTION:  MOLECULES AND USES THEREOF
;    NUMBER OF SEQUENCES:  190
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sheridan Ross & McIntosh
;      STREET:  1700 Lincoln Street, Suite 3500
;      CITY:  Denver
;      STATE:  Colorado
;      COUNTRY:  USA
;      ZIP:  80203
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/906,769
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/639,075
;      FILING DATE:  24-APR-1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Connell, Gary J.
;      REGISTRATION NUMBER:  32,020
;      REFERENCE/DOCKET NUMBER:  2618-25-C2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (303) 863-9700
;      TELEFAX:  (303) 863-0223
;  INFORMATION FOR SEQ ID NO:  67:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  130 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-906-769-67

  Query Match             63.5%;  Score 33;  DB 2;  Length 130;
  Best Local Similarity   55.6%;  Pred. No. 81;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||:| |::
```

```
Db         88 HLDRKGRYY 96


RESULT 46
US-08-906-616-67
; Sequence 67, Application US/08906616
; Patent No. 6121035
;  GENERAL INFORMATION:
;    APPLICANT:  Grieve, Robert B.
;    APPLICANT:  Rushlow, Keith E.
;    APPLICANT:  Wu Hunter, Shirley
;    APPLICANT:  Frank, Glenn R.
;    APPLICANT:  Stiegler, Gary
;    APPLICANT:  Gaines, Patrick J.
;    APPLICANT:  Silver, Gary
;    TITLE OF INVENTION:  FLEA AMINOPEPTIDASE PROTEINS AND USES THEREOF
;    NUMBER OF SEQUENCES:  190
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sheridan Ross P.C.
;      STREET:  1700 Lincoln Street, Suite 3500
;      CITY:  Denver
;      STATE:  Colorado
;      COUNTRY:  USA
;      ZIP:  80203
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/906,616
;      FILING DATE:  05-AUG-1997
;      CLASSIFICATION:  536
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Connell, Gary J.
;      REGISTRATION NUMBER:  32,020
;      REFERENCE/DOCKET NUMBER:  2618-25-C2-3
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (303) 863-9700
;      TELEFAX:  (303) 863-0223
;  INFORMATION FOR SEQ ID NO:  67:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  130 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-906-616-67

  Query Match             63.5%;  Score 33;  DB 2;  Length 130;
  Best Local Similarity   55.6%;  Pred. No. 81;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||:| |::
Db         88 HLDRKGRYY 96


RESULT 47
US-08-817-795-67
; Sequence 67, Application US/08817795
; Patent No. 6139840
;  GENERAL INFORMATION:
;    APPLICANT:  Grieve, Robert B.
;    APPLICANT:  Rushlow, Keith E.
;    APPLICANT:  Hunter, Shirley Wu
;    APPLICANT:  Frank, Glenn R.
;    APPLICANT:  Heath, Andrew W.
;    APPLICANT:  Yamaka, Miles Yamanaka
;    APPLICANT:  Arfsten, Ann
;    APPLICANT:  Dale, Beverly
;    APPLICANT:  Stiegler, Gary
;    TITLE OF INVENTION:  USE OF PROTEASE INHIBITORS AND
;    TITLE OF INVENTION:  PROTEASE VACCINES TO PROTECT  ANIMALS FROM FLEA
;    TITLE OF INVENTION:  INFESTATION, AND FLEA PROTEASE PROTEINS, NUCLEIC ACID
;    TITLE OF INVENTION:  MOLECULES, AND USES THEREOF
;    NUMBER OF SEQUENCES:  119
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sheridan Ross & McIntosh
;      STREET:  1700 Lincoln Street, Suite 3500
;      CITY:  Denver
;      STATE:  Colorado
;      COUNTRY:  USA
;      ZIP:  80203
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/817,795
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US95/14442
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Gary J. Connell
;      REGISTRATION NUMBER:  32,020
;      REFERENCE/DOCKET NUMBER:
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (303) 863-9700
;      TELEFAX:  (303 863-0223
;  INFORMATION FOR SEQ ID NO:  67:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  130 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-817-795-67

  Query Match             63.5%;  Score 33;  DB 2;  Length 130;
  Best Local Similarity   55.6%;  Pred. No. 81;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||:| |::
Db         88 HLDRKGRYY 96


RESULT 48
US-08-485-443B-67
; Sequence 67, Application US/08485443B
; Patent No. 6146870
;  GENERAL INFORMATION:
;    APPLICANT:  Grieve, Robert B.
;    APPLICANT:  Rushlow, Keith E.
;    APPLICANT:  Hunter, Shirley Wu
;    APPLICANT:  Frank, Glenn R.
;    APPLICANT:  Stiegler, Gary L.
;    TITLE OF INVENTION:  FLEA PROTEASE PROTEINS, NUCLEIC ACID
;    TITLE OF INVENTION:  MOLECULES AND USES THEREOF
;    NUMBER OF SEQUENCES:  79
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  SHERIDAN ROSS
;      STREET:  1700 LINCOLN ST., SUITE 3500
;      CITY:  DENVER
;      STATE:  CO
;      COUNTRY:  USA
;      ZIP:  80203
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/485,443B
```

```
;      FILING DATE:  07-JUN-1995
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Connell, Gary L.
;      REGISTRATION NUMBER:  32,020
;      REFERENCE/DOCKET NUMBER:  2618-25-C1-2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  303 863-9700
;      TELEFAX:  303 863-0223
;  INFORMATION FOR SEQ ID NO:  67:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  130 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-485-443B-67

  Query Match             63.5%;  Score 33;  DB 2;  Length 130;
  Best Local Similarity   55.6%;  Pred. No. 81;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||:| |::
Db         88 HLDRKGRYY 96


RESULT 49
US-08-639-075A-67
; Sequence 67, Application US/08639075A
; Patent No. 6150125
;  GENERAL INFORMATION:
;    APPLICANT:  Grieve, Robert B.
;    APPLICANT:  Rushlow, Keith E.
;    APPLICANT:  Wu Hunter, Shirley
;    APPLICANT:  Frank, Glenn R.
;    APPLICANT:  Stiegler, Gary
;    APPLICANT:  Gaines, Patrick J.
;    APPLICANT:  Silver, Gary
;    TITLE OF INVENTION:  FLEA PROTEASE PROTEINS, NUCLEIC ACID
;    TITLE OF INVENTION:  MOLECULES AND USES THEREOF
;    NUMBER OF SEQUENCES:  190
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sheridan Ross & McIntosh
;      STREET:  1700 Lincoln Street, Suite 3500
;      CITY:  Denver
;      STATE:  Colorado
;      COUNTRY:  USA
;      ZIP:  80203
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/639,075A
;      FILING DATE:  24-APR-1996
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Connell, Gary J.
;      REGISTRATION NUMBER:  32,020
;      REFERENCE/DOCKET NUMBER:  2618-25-C2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (303) 863-9700
;      TELEFAX:  (303) 863-0223
;  INFORMATION FOR SEQ ID NO:  67:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  130 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-639-075A-67

  Query Match             63.5%;  Score 33;  DB 2;  Length 130;
  Best Local Similarity   55.6%;  Pred. No. 81;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||:| |::
Db         88 HLDRKGRYY 96


RESULT 50
US-09-012-431-67
; Sequence 67, Application US/09012431
; Patent No. 6180383
;  GENERAL INFORMATION:
;       APPLICANT: Grieve, Robert B.
;                  Rushlow, Keith E.
;                  Wu Hunter, Shirley
;                  Frank, Glenn R.
;                  Stiegler, Gary
;                  Gaines, Patrick J.
;                  Silver, Gary
;       TITLE OF INVENTION: FLEA PROTEASE PROTEINS, NUCLEIC ACID
;                           MOLECULES AND USES THEREOF
;       NUMBER OF SEQUENCES: 190
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: Sheridan Ross & McIntosh
;            STREET: 1700 Lincoln Street, Suite 3500
;            CITY: Denver
;            STATE: Colorado
;            COUNTRY: USA
;            ZIP: 80203
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.30
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/012,431
;            FILING DATE: 23-Jan-1998
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: US 08/639,075
;            FILING DATE: <Unknown>
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Connell, Gary J.
;            REGISTRATION NUMBER: 32,020
;            REFERENCE/DOCKET NUMBER: 2618-25-C2
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (303) 863-9700
;            TELEFAX: (303) 863-0223
;  INFORMATION FOR SEQ ID NO: 67:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 130 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       SEQUENCE DESCRIPTION: SEQ ID NO: 67:
US-09-012-431-67

  Query Match             63.5%;  Score 33;  DB 2;  Length 130;
  Best Local Similarity   55.6%;  Pred. No. 81;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
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Db         88 HLDRKGRYY 96


Search completed: May  5, 2006, 04:48:27
Job time : 24.7 secs
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:18:14 ; Search time 56 Seconds
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Title: US-08-170-344-55
Perfect score: 52
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Scoring table: BLOSUM62
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Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

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Post-processing: Minimum Match 0%
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Listing first 1000 summaries

Database : Published_Applications_AA_Main:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 243 | 31 | 59.6 | 132 | 3 | US-09-764-864-1333 | Sequence 1333, Ap |
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| 268 | 31 | 59.6 | 317 | 4 | US-10-437-963-163630 | Sequence 163630, |
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| 270 | 31 | 59.6 | 325 | 6 | US-11-097-143-29451 | Sequence 29451, A |
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| 293 | 31 | 59.6 | 470 | 3 | US-09-953-348-118 | Sequence 118, App |
| 294 | 31 | 59.6 | 470 | 4 | US-10-267-255-118 | Sequence 118, App |
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| 320 | 31 | 59.6 | 702 | 4 | US-10-233-553-9 | Sequence 9, Appli |
| 321 | 31 | 59.6 | 702 | 4 | US-10-233-553-15 | Sequence 15, Appl |
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| 344 | 31 | 59.6 | 1025 | 6 | US-11-042-922-2 | Sequence 2, Appli |
| 345 | 31 | 59.6 | 1025 | 6 | US-11-042-922-7 | Sequence 7, Appli |
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| 352 | 31 | 59.6 | 1284 | 5 | US-10-450-763-50582 | Sequence 50582, A |
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| 368 | 31 | 59.6 | 4563 | 3 | US-09-802-640-32 | Sequence 32, Appl |
| 369 | 31 | 59.6 | 4563 | 3 | US-09-751-708A-128 | Sequence 128, App |
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| 372 | 31 | 59.6 | 4563 | 4 | US-10-741-601-433 | Sequence 433, App |
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| 394 | 30 | 57.7 | 23 | 4 | US-10-314-669-183 | Sequence 183, App |
| 395 | 30 | 57.7 | 23 | 4 | US-10-669-861-122 | Sequence 122, App |
| 396 | 30 | 57.7 | 23 | 4 | US-10-669-861-183 | Sequence 183, App |
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| 399 | 30 | 57.7 | 23 | 5 | US-10-746-864-32 | Sequence 32, Appl |
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| 401 | 30 | 57.7 | 23 | 5 | US-10-746-864-144 | Sequence 144, App |
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| 415 | 30 | 57.7 | 83 | 5 | US-10-732-620-25 | Sequence 25, Appl |
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| 485 | 30 | 57.7 | 182 | 5 | US-10-854-299-121 | Sequence 121, App |
| 486 | 30 | 57.7 | 184 | 4 | US-10-424-599-237996 | Sequence 237996, |
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| 489 | 30 | 57.7 | 199 | 5 | US-10-854-299-67 | Sequence 67, Appl |
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| 496 | 30 | 57.7 | 210 | 4 | US-10-311-104-3 | Sequence 3, Appli |
| 497 | 30 | 57.7 | 210 | 4 | US-10-669-861-221 | Sequence 221, App |
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| 499 | 30 | 57.7 | 210 | 6 | US-11-048-068-3 | Sequence 3, Appli |
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| 505 | 30 | 57.7 | 250 | 4 | US-10-282-122A-57724 | Sequence 57724, A |
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| 512 | 30 | 57.7 | 266 | 3 | US-09-780-669-534 | Sequence 534, App |
| 513 | 30 | 57.7 | 266 | 3 | US-09-822-827-534 | Sequence 534, App |
| 514 | 30 | 57.7 | 266 | 3 | US-09-895-793-534 | Sequence 534, App |
| 515 | 30 | 57.7 | 266 | 3 | US-09-895-814-534 | Sequence 534, App |
| 516 | 30 | 57.7 | 266 | 4 | US-10-012-896-534 | Sequence 534, App |
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| 530 | 30 | 57.7 | 313 | 3 | US-09-864-761-43142 | Sequence 43142, A |
| 531 | 30 | 57.7 | 313 | 5 | US-10-474-792-184 | Sequence 184, App |
| 532 | 30 | 57.7 | 314 | 3 | US-09-964-956-31 | Sequence 31, Appl |
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| 535 | 30 | 57.7 | 314 | 4 | US-10-210-130-70 | Sequence 70, Appl |
| 536 | 30 | 57.7 | 314 | 4 | US-10-188-186-64 | Sequence 64, Appl |
| 537 | 30 | 57.7 | 314 | 5 | US-10-723-860-2786 | Sequence 2786, Ap |
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| 555 | 30 | 57.7 | 327 | 4 | US-10-041-615-96 | Sequence 96, Appl |
| 556 | 30 | 57.7 | 327 | 4 | US-10-343-650A-488 | Sequence 488, App |
| 557 | 30 | 57.7 | 327 | 4 | US-10-467-252-39 | Sequence 39, Appl |
| 558 | 30 | 57.7 | 327 | 5 | US-10-819-316-489 | Sequence 489, App |
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| 563 | 30 | 57.7 | 334 | 4 | US-10-241-742-256 | Sequence 256, App |
| 564 | 30 | 57.7 | 334 | 4 | US-10-440-523-256 | Sequence 256, App |
| 565 | 30 | 57.7 | 334 | 4 | US-10-440-503-256 | Sequence 256, App |
| 566 | 30 | 57.7 | 334 | 4 | US-10-461-925-256 | Sequence 256, App |
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| 576 | 30 | 57.7 | 378 | 4 | US-10-669-861-6 | Sequence 6, Appli |
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| 588 | 30 | 57.7 | 396 | 5 | US-10-854-299-115 | Sequence 115, App |
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| 605 | 30 | 57.7 | 446 | 4 | US-10-094-749-3068 | Sequence 3068, Ap |
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| 607 | 30 | 57.7 | 456 | 4 | US-10-122-706-27 | Sequence 27, Appl |
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| 614 | 30 | 57.7 | 474 | 4 | US-10-221-625-55 | Sequence 55, Appl |
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| 638 | 30 | 57.7 | 545 | 4 | US-10-282-122A-63182 | Sequence 63182, A |
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| 641 | 30 | 57.7 | 549 | 4 | US-10-471-450-19 | Sequence 19, Appl |
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| 645 | 30 | 57.7 | 551 | 4 | US-10-120-801-97 | Sequence 97, Appl |
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| 659 | 30 | 57.7 | 588 | 3 | US-09-847-081B-6 | Sequence 6, Appli |
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| 661 | 30 | 57.7 | 604 | 4 | US-10-335-977-7499 | Sequence 7499, Ap |
| 662 | 30 | 57.7 | 605 | 3 | US-09-864-761-36132 | Sequence 36132, A |
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| 665 | 30 | 57.7 | 619 | 4 | US-10-369-493-15803 | Sequence 15803, A |
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| 668 | 30 | 57.7 | 656 | 4 | US-10-282-122A-63355 | Sequence 63355, A |
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| 681 | 30 | 57.7 | 702 | 4 | US-10-282-122A-63703 | Sequence 63703, A |
| 682 | 30 | 57.7 | 702 | 5 | US-10-862-424-22 | Sequence 22, Appl |
| 683 | 30 | 57.7 | 703 | 4 | US-10-282-122A-75360 | Sequence 75360, A |
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| 696 | 30 | 57.7 | 732 | 5 | US-10-776-773-75 | Sequence 75, Appl |
| 697 | 30 | 57.7 | 732 | 5 | US-10-776-773-105 | Sequence 105, App |
| 698 | 30 | 57.7 | 735 | 4 | US-10-289-776-9 | Sequence 9, Appli |
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| 713 | 30 | 57.7 | 798 | 3 | US-09-970-944-8 | Sequence 8, Appli |
| 714 | 30 | 57.7 | 798 | 3 | US-09-964-956-28 | Sequence 28, Appl |
| 715 | 30 | 57.7 | 798 | 4 | US-10-177-293-486 | Sequence 486, App |
| 716 | 30 | 57.7 | 798 | 4 | US-10-274-583-21 | Sequence 21, Appl |
| 717 | 30 | 57.7 | 798 | 4 | US-10-277-292-658 | Sequence 658, App |
| 718 | 30 | 57.7 | 798 | 4 | US-10-280-340-658 | Sequence 658, App |
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| 735 | 30 | 57.7 | 841 | 4 | US-10-058-270A-8 | Sequence 8, Appli |
| 736 | 30 | 57.7 | 841 | 4 | US-10-258-951-49 | Sequence 49, Appl |
| 737 | 30 | 57.7 | 841 | 4 | US-10-188-832-181 | Sequence 181, App |
| 738 | 30 | 57.7 | 841 | 4 | US-10-403-142-74 | Sequence 74, Appl |
| 739 | 30 | 57.7 | 841 | 4 | US-10-403-142-84 | Sequence 84, Appl |
| 740 | 30 | 57.7 | 841 | 4 | US-10-403-142-86 | Sequence 86, Appl |
| 741 | 30 | 57.7 | 841 | 5 | US-10-855-588-20 | Sequence 20, Appl |
| 742 | 30 | 57.7 | 841 | 5 | US-10-776-773-3 | Sequence 3, Appli |
| 743 | 30 | 57.7 | 841 | 5 | US-10-776-773-5 | Sequence 5, Appli |
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| 745 | 30 | 57.7 | 841 | 5 | US-10-776-773-14 | Sequence 14, Appl |
| 746 | 30 | 57.7 | 841 | 5 | US-10-776-773-74 | Sequence 74, Appl |
| 747 | 30 | 57.7 | 841 | 5 | US-10-776-773-80 | Sequence 80, Appl |
| 748 | 30 | 57.7 | 841 | 5 | US-10-776-773-85 | Sequence 85, Appl |
| 749 | 30 | 57.7 | 841 | 5 | US-10-776-773-86 | Sequence 86, Appl |
| 750 | 30 | 57.7 | 841 | 5 | US-10-776-773-87 | Sequence 87, Appl |
| 751 | 30 | 57.7 | 841 | 5 | US-10-776-773-92 | Sequence 92, Appl |
| 752 | 30 | 57.7 | 841 | 5 | US-10-776-773-94 | Sequence 94, Appl |
| 753 | 30 | 57.7 | 841 | 5 | US-10-776-773-104 | Sequence 104, App |
| 754 | 30 | 57.7 | 841 | 5 | US-10-990-000-49 | Sequence 49, Appl |
| 755 | 30 | 57.7 | 841 | 5 | US-10-990-137-657 | Sequence 657, App |
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| 794 | 30 | 57.7 | 1523 | 4 | US-10-173-999-123 | Sequence 123, App |
| 795 | 30 | 57.7 | 1523 | 5 | US-10-723-860-1894 | Sequence 1894, Ap |
| 796 | 30 | 57.7 | 1523 | 5 | US-10-756-149-5196 | Sequence 5196, Ap |
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| 806 | 30 | 57.7 | 1937 | 5 | US-10-723-860-58 | Sequence 58, Appl |
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| 813 | 30 | 57.7 | 1939 | 5 | US-10-805-684-152 | Sequence 152, App |
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| 978 | 29 | 55.8 | 260 | 4 | US-10-221-278-361 | Sequence 361, App |
| 979 | 29 | 55.8 | 265 | 4 | US-10-425-114-63747 | Sequence 63747, A |
| 980 | 29 | 55.8 | 265 | 6 | US-11-097-143-39783 | Sequence 39783, A |
| 981 | 29 | 55.8 | 266 | 4 | US-10-437-963-127634 | Sequence 127634, |
| 982 | 29 | 55.8 | 270 | 4 | US-10-437-963-191230 | Sequence 191230, |
| 983 | 29 | 55.8 | 277 | 4 | US-10-156-761-8277 | Sequence 8277, Ap |
| 984 | 29 | 55.8 | 277 | 4 | US-10-424-599-222413 | Sequence 222413, |
| 985 | 29 | 55.8 | 277 | 4 | US-10-437-963-142103 | Sequence 142103, |
| 986 | 29 | 55.8 | 277 | 4 | US-10-724-972A-5277 | Sequence 5277, Ap |
| 987 | 29 | 55.8 | 278 | 4 | US-10-767-701-42964 | Sequence 42964, A |
| 988 | 29 | 55.8 | 279 | 4 | US-10-425-115-226363 | Sequence 226363, |
| 989 | 29 | 55.8 | 280 | 4 | US-10-029-386-33936 | Sequence 33936, A |
| 990 | 29 | 55.8 | 284 | 5 | US-10-719-993-674 | Sequence 674, App |
| 991 | 29 | 55.8 | 285 | 4 | US-10-425-115-204301 | Sequence 204301, |
| 992 | 29 | 55.8 | 285 | 4 | US-10-425-115-360121 | Sequence 360121, |
| 993 | 29 | 55.8 | 290 | 5 | US-10-483-505-18 | Sequence 18, Appl |
| 994 | 29 | 55.8 | 293 | 4 | US-10-425-114-37366 | Sequence 37366, A |
| 995 | 29 | 55.8 | 297 | 3 | US-09-815-242-5206 | Sequence 5206, Ap |
| 996 | 29 | 55.8 | 297 | 4 | US-10-282-122A-43551 | Sequence 43551, A |
| 997 | 29 | 55.8 | 298 | 4 | US-10-369-493-5836 | Sequence 5836, Ap |
| 998 | 29 | 55.8 | 298 | 5 | US-10-972-963-78 | Sequence 78, Appl |
| 999 | 29 | 55.8 | 300 | 4 | US-10-162-335-40 | Sequence 40, Appl |
| 1000 | 29 | 55.8 | 300 | 4 | US-10-425-114-62014 | Sequence 62014, A |

ALIGNMENTS

```
RESULT 1
US-11-021-949-11
; Sequence 11, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
;   LENGTH: 12
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-11

  Query Match             100.0%;  Score 52;  DB 6;  Length 12;
  Best Local Similarity   100.0%;  Pred. No. 0.0075;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db          2 HLDKKQRFH 10


RESULT 2
US-10-476-570-42
; Sequence 42, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 42
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 124-138
US-10-476-570-42

  Query Match             100.0%;  Score 52;  DB 4;  Length 14;
  Best Local Similarity   100.0%;  Pred. No. 0.0088;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db          1 HLDKKQRFH 9


RESULT 3
US-10-476-570-41
; Sequence 41, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 41
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 121-140
US-10-476-570-41

  Query Match             100.0%;  Score 52;  DB 4;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.013;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db          5 HLDKKQRFH 13


RESULT 4
US-10-476-570-56
; Sequence 56, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
```

; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 56
; LENGTH: 22
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 118-139
US-10-476-570-56

Query Match 100.0%; Score 52; DB 4; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.014;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQRFH 9
||||||||| 
Db 8 HLDKKQRFH 16

RESULT 5
US-10-858-384-10
; Sequence 10, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 10
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
; OTHER INFORMATION: for E6 of HPV
US-10-858-384-10

Query Match 100.0%; Score 52; DB 5; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.014;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQRFH 9
||||||||| 
Db 8 HLDKKQRFH 16

RESULT 6
US-10-476-570-40
; Sequence 40, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 40
; LENGTH: 23
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 118-140
US-10-476-570-40

Query Match 100.0%; Score 52; DB 4; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.014;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQRFH 9
||||||||| 
Db 8 HLDKKQRFH 16

RESULT 7
US-11-021-949-5
; Sequence 5, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 24
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-5

Query Match 100.0%; Score 52; DB 6; Length 24;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQRFH 9
||||||||| 
Db 2 HLDKKQRFH 10

RESULT 8

```
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
;  APPLICANT: Schuler, Gerold
;  APPLICANT:  N.V. Antwerps Innovatiecentrum
;  TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
;  TITLE OF INVENTION:  Polynucleotides by Electroporation
;  FILE REFERENCE: 021505wo/JH/ml
;  CURRENT APPLICATION NUMBER: US/10/177,390
;  CURRENT FILING DATE:  2002-06-20
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-177-390-6

  Query Match             100.0%;  Score 52;  DB 4;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 0.096;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        118 HLDKKQRFH 126


RESULT 9
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-484-063-20

  Query Match             100.0%;  Score 52;  DB 5;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 0.096;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        118 HLDKKQRFH 126


RESULT 10
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-484-063-27

  Query Match             100.0%;  Score 52;  DB 5;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 0.096;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        118 HLDKKQRFH 126


RESULT 11
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-10-858-384-2

  Query Match             100.0%;  Score 52;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        125 HLDKKQRFH 133


RESULT 12
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
;  APPLICANT: Cuthill, Scott;
;  APPLICANT:  Jackson, Amanda;
;  APPLICANT:  Lewin, David A.;
;  APPLICANT:  Ooi, Chean Eng
;  TITLE OF INVENTION: Complexes and Methods of Using Same
;  FILE REFERENCE: 21402-559
;  CURRENT APPLICATION NUMBER: US/10/367,057
;  CURRENT FILING DATE:  2003-02-14
;  PRIOR APPLICATION NUMBER: 60/256,911
;  PRIOR FILING DATE: 2002-02-14
```

; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 16
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-367-057-16

Query Match 100.0%; Score 52; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQRFH 9
||||||||| 
Db 125 HLDKKQRFH 133

RESULT 13
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

Query Match 100.0%; Score 52; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQRFH 9
||||||||| 
Db 125 HLDKKQRFH 133

RESULT 14
US-10-472-724-2
; Sequence 2, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 171
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

Query Match 100.0%; Score 52; DB 4; Length 171;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQRFH 9
||||||||| 
Db 130 HLDKKQRFH 138

RESULT 15
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOUL, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/11/072,288
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US/09/462,993
; PRIOR FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Derivated from
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
; OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

Query Match 100.0%; Score 52; DB 6; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQRFH 9
||||||||| 
Db 148 HLDKKQRFH 156

RESULT 16
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16

US-09-367-309A-1

Query Match 100.0%; Score 52; DB 3; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQRFH 9
||||||||| |
Db 125 HLDKKQRFH 133

RESULT 17
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-4

Query Match 100.0%; Score 52; DB 4; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQRFH 9
||||||||| |
Db 231 HLDKKQRFH 239

RESULT 18
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
; OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
;
; OTHER INFORMATION: 16)
US-10-899-771-4

Query Match 100.0%; Score 52; DB 5; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQRFH 9
||||||||| |
Db 231 HLDKKQRFH 239

RESULT 19
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-10

Query Match 100.0%; Score 52; DB 4; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQRFH 9
||||||||| |
Db 250 HLDKKQRFH 258

RESULT 20
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus

```
;   OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-10

  Query Match            100.0%;  Score 52;  DB 5;  Length 292;
  Best Local Similarity  100.0%;  Pred. No. 0.19;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        250 HLDKKQRFH 258


RESULT 21
US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-6

  Query Match            100.0%;  Score 52;  DB 4;  Length 371;
  Best Local Similarity  100.0%;  Pred. No. 0.24;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        231 HLDKKQRFH 239


RESULT 22
US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
;   OTHER INFORMATION: virus type 16)
US-10-899-771-6

  Query Match            100.0%;  Score 52;  DB 5;  Length 371;
  Best Local Similarity  100.0%;  Pred. No. 0.24;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        231 HLDKKQRFH 239


RESULT 23
US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-14

  Query Match            100.0%;  Score 52;  DB 4;  Length 390;
  Best Local Similarity  100.0%;  Pred. No. 0.25;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        250 HLDKKQRFH 258


RESULT 24
US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
```

; FEATURE:
; OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-14

Query Match 100.0%; Score 52; DB 5; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.25;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQRFH 9
||||||||| 
Db 250 HLDKKQRFH 258

RESULT 25
US-11-021-949-18
; Sequence 18, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-18

Query Match 92.3%; Score 48; DB 6; Length 149;
Best Local Similarity 88.9%; Pred. No. 0.52;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQRFH 9
||||||:||| 
Db 118 HLDKKKRFH 126

RESULT 26
US-10-239-313A-538
; Sequence 538, Application US/10239313A
; Publication No. US20030175285A1
; GENERAL INFORMATION:
; APPLICANT: KLINGUER - HAMOUR, Christine
; APPLICANT: CORVAIA, Nathalie
; APPLICANT: BECK, Alain
; APPLICANT: GOETSCH, Liliane
; TITLE OF INVENTION: MOLECULE OF PHARMACEUTICAL INTEREST COMPRISING AT ITS
; TITLE OF INVENTION: N-TERMINAL A GLUTAMIC ACID OR A GLUTAMINE IN THE FORM
; TITLE OF INVENTION: OF A PHYSIOLOGICALLY ACCEPTABLE STRONG ACID
; FILE REFERENCE: 343 727 - US
; CURRENT APPLICATION NUMBER: US/10/239,313A
; CURRENT FILING DATE: 2002-09-19
; PRIOR APPLICATION NUMBER: FR 00/03711
; PRIOR FILING DATE: 2000-03-23
; PRIOR APPLICATION NUMBER: PCT 01/70772
; PRIOR FILING DATE: 2001-03-22
; NUMBER OF SEQ ID NOS: 697
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 538
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-239-313A-538

Query Match 84.6%; Score 44; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQRF 8
||||||||
Db 3 HLDKKQRF 10

RESULT 27
US-11-021-949-360
; Sequence 360, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 360
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-360

Query Match 80.8%; Score 42; DB 6; Length 149;
Best Local Similarity 66.7%; Pred. No. 6.8;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQRFH 9
|:|:|:||| 
Db 118 HVDRKKRFH 126

RESULT 28
US-11-021-949-19
; Sequence 19, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 19
; LENGTH: 148
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-19

Query Match 78.8%; Score 41; DB 6; Length 148;
Best Local Similarity 66.7%; Pred. No. 10;

```
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |:|:|:|||
Db        119 HVDEKKRFH 127


RESULT 29
US-11-021-949-14
; Sequence 14, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-14

  Query Match             76.9%;  Score 40;  DB 6;  Length 149;
  Best Local Similarity   66.7%;  Pred. No. 16;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              ||::|:|||
Db        118 HLEEKKRFH 126


RESULT 30
US-11-021-949-22
; Sequence 22, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22
;   LENGTH: 155
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-22

  Query Match             76.9%;  Score 40;  DB 6;  Length 155;
  Best Local Similarity   66.7%;  Pred. No. 17;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              | |:|:|||
Db        121 HCDRKRRFH 129


RESULT 31
US-11-021-949-12
; Sequence 12, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
;   LENGTH: 12
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-12

  Query Match             75.0%;  Score 39;  DB 6;  Length 12;
  Best Local Similarity   66.7%;  Pred. No. 1.9;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              ||::|:|||
Db          2 HLNEKRRFH 10


RESULT 32
US-11-021-949-6
; Sequence 6, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
;   LENGTH: 24
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-6

  Query Match             75.0%;  Score 39;  DB 6;  Length 24;
  Best Local Similarity   66.7%;  Pred. No. 3.9;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              ||::|:|||
Db          2 HLNEKRRFH 10


RESULT 33
US-10-800-023-27
; Sequence 27, Application US/10800023
```

; Publication No. US20040258688A1
; GENERAL INFORMATION:
; APPLICANT: Steinman, Ralph
; APPLICANT: Nussenzweig, Michel
; APPLICANT: Hawiger, Daniel
; APPLICANT: Bonifaz, Laura
; TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
; TITLE OF INVENTION: of the Immune Response Therefrom
; FILE REFERENCE: 600-1-081CONCIP1
; CURRENT APPLICATION NUMBER: US/10/800,023
; CURRENT FILING DATE: 2004-03-14
; PRIOR APPLICATION NUMBER: 09/925,284
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 09/586,704
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: PCT/US96/01383
; PRIOR FILING DATE: 1996-01-31
; PRIOR APPLICATION NUMBER: 08/381,528
; PRIOR FILING DATE: 1995-01-31
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus E6 protein
US-10-800-023-27

Query Match 75.0%; Score 39; DB 5; Length 158;
Best Local Similarity 66.7%; Pred. No. 26;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQRFH 9
||::|:|||
Db 120 HLNEKRRFH 128

RESULT 34
US-11-021-949-28
; Sequence 28, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-28

Query Match 75.0%; Score 39; DB 6; Length 158;
Best Local Similarity 66.7%; Pred. No. 26;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQRFH 9
||::|:|||
Db 120 HLNEKRRFH 128

RESULT 35
US-10-472-724-6
; Sequence 6, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-6

Query Match 75.0%; Score 39; DB 4; Length 172;
Best Local Similarity 66.7%; Pred. No. 28;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HLDKKQRFH 9
||::|:|||
Db 126 HLNEKRRFH 134

RESULT 36
US-10-450-763-53189
; Sequence 53189, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 53189
; LENGTH: 195
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: DOMAIN
; LOCATION: (154)..(192)
; OTHER INFORMATION: Ribosomal protein S7e proteins domain identified by eMATRIX,
; OTHER INFORMATION: accession number BL00948D, p-value=4.339e-25, raw score of 14.77
; FEATURE:
; NAME/KEY: DOMAIN
; LOCATION: (22)..(195)
; OTHER INFORMATION: Ribosomal protein S7e domain identified by PFam, accession
; OTHER INFORMATION: name Ribosomal_S7e, E-value=9.5e-57, PFam score of 202.0
US-10-450-763-53189

Query Match 75.0%; Score 39; DB 5; Length 195;
Best Local Similarity 66.7%; Pred. No. 32;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 HLDKKQRFH 9
|||| |::|
Db 158 HLDKAQQYH 166

```
RESULT 37
US-10-000-903-21
; Sequence 21, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 21
;   LENGTH: 278
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-21

  Query Match             75.0%;  Score 39;  DB 4;  Length 278;
  Best Local Similarity   66.7%;  Pred. No. 46;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              ||::|:|||
Db        231 HLNEKRRFH 239


RESULT 38
US-10-899-771-21
; Sequence 21, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 21
;   LENGTH: 278
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
;   OTHER INFORMATION: 18)
US-10-899-771-21

  Query Match             75.0%;  Score 39;  DB 5;  Length 278;
  Best Local Similarity   66.7%;  Pred. No. 46;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              ||::|:|||
Db        231 HLNEKRRFH 239


RESULT 39
US-10-000-903-23
; Sequence 23, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 23
;   LENGTH: 383
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-23

  Query Match             75.0%;  Score 39;  DB 4;  Length 383;
  Best Local Similarity   66.7%;  Pred. No. 63;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              ||::|:|||
Db        231 HLNEKRRFH 239


RESULT 40
US-10-899-771-23
; Sequence 23, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 23
;   LENGTH: 383
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
;   OTHER INFORMATION: virus type 18)
US-10-899-771-23

  Query Match             75.0%;  Score 39;  DB 5;  Length 383;
  Best Local Similarity   66.7%;  Pred. No. 63;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              ||::|:|||
```

```
Db        231 HLNEKRRFH 239


RESULT 41
US-11-021-949-30
; Sequence 30, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 30
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-30

  Query Match             73.1%;  Score 38;  DB 6;  Length 158;
  Best Local Similarity   66.7%;  Pred. No. 40;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              ||: |:|||
Db        120 HLNSKRRFH 128


RESULT 42
US-11-021-949-31
; Sequence 31, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 31
;   LENGTH: 162
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-31

  Query Match             73.1%;  Score 38;  DB 6;  Length 162;
  Best Local Similarity   66.7%;  Pred. No. 41;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              ||: |:|||
Db        124 HLNSKRRFH 132


RESULT 43
US-10-283-423-181
; Sequence 181, Application US/10283423
; Publication No. US20030162223A1
; GENERAL INFORMATION:
;  APPLICANT: Lowery, David E.
;  APPLICANT:  Smith, Valdin G.
;  APPLICANT:  Kubiak, Teresa M.
;  APPLICANT:  Larsen, Martha J.
;  TITLE OF INVENTION: Drosophila G Protein Coupled Receptors, Nucleic Acids, And Methods
;  TITLE OF INVENTION:  Related To The Same
;  FILE REFERENCE: PHRM0002-102
;    Application Project
;    -------------------
;  CURRENT APPLICATION NUMBER: US/10/283,423
;  CURRENT FILING DATE:  2002-10-30
;    Earlier Applications
;    --------------------
;  PRIOR APPLICATION NUMBER: PriorAppNumber : 09/693,746
;  PRIOR FILING DATE: PriorFilingDate : 2000-10-20
;  PRIOR APPLICATION NUMBER: PriorAppNumber : 09/425,676
;  PRIOR FILING DATE: PriorFilingDate : 1999-10-22
;  NUMBER OF SEQ ID NOS: 187
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 181
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: No. US20030162223A1el Sequence
US-10-283-423-181

  Query Match             71.2%;  Score 37;  DB 4;  Length 15;
  Best Local Similarity   87.5%;  Pred. No. 5.7;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 LDKKQRFH 9
              | ||||||
Db          5 LGKKQRFH 12


RESULT 44
US-10-213-821-181
; Sequence 181, Application US/10213821
; Publication No. US20030180297A1
; GENERAL INFORMATION:
;  APPLICANT: Pharmacia & Upjphn
;  APPLICANT:  Lowery, David E.
;  APPLICANT:  Smith, Valdin G.
;  APPLICANT:  Kubiak, Teresa M.
;  APPLICANT:  Larsen, Martha J.
;  TITLE OF INVENTION: Drosophila G Protein Coupled Receptors, Nucleic Acids, And Methods
;  TITLE OF INVENTION:  Related To The Same
;  FILE REFERENCE: 6297.2cp
;  CURRENT APPLICATION NUMBER: US/10/213,821
;  CURRENT FILING DATE:  2003-01-21
;  PRIOR APPLICATION NUMBER: 09/693,746
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 09/425,676
;  PRIOR FILING DATE: 1999-10-22
;  NUMBER OF SEQ ID NOS: 185
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 181
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: No. US20030180297A1el Sequence
US-10-213-821-181

  Query Match             71.2%;  Score 37;  DB 4;  Length 15;
  Best Local Similarity   87.5%;  Pred. No. 5.7;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 LDKKQRFH 9
```

```
                | ||||||
Db          5 LGKKQRFH 12


RESULT 45
US-11-097-143-31440
; Sequence 31440, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
;  APPLICANT: Venter, J. Craig
;  APPLICANT:  et al.
;  TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
;  TITLE OF INVENTION:  ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
;  TITLE OF INVENTION:  DROSOPHILA GENES.
;  FILE REFERENCE: CL000728
;  CURRENT APPLICATION NUMBER: US/11/097,143
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: 60/157,832
;  PRIOR FILING DATE: 1999-10-05
;  PRIOR APPLICATION NUMBER: 60/160,191
;  PRIOR FILING DATE: 1999-10-19
;  PRIOR APPLICATION NUMBER: 60/161,932
;  PRIOR FILING DATE: 1999-10-28
;  PRIOR APPLICATION NUMBER: 60/164,769
;  PRIOR FILING DATE: 1999-11-12
;  PRIOR APPLICATION NUMBER: 60/173,383
;  PRIOR FILING DATE: 1999-12-28
;  PRIOR APPLICATION NUMBER: 60/175,693
;  PRIOR FILING DATE: 2000-01-12
;  PRIOR APPLICATION NUMBER: 60/184,831
;  PRIOR FILING DATE: 2000-02-24
;  PRIOR APPLICATION NUMBER: 60/191,637
;  PRIOR FILING DATE: 2000-03-23
;  NUMBER OF SEQ ID NOS: 43008
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 31440
;   LENGTH: 153
;   TYPE: PRT
;   ORGANISM: DROSOPHILA
US-11-097-143-31440

  Query Match             71.2%;  Score 37;  DB 6;  Length 153;
  Best Local Similarity   87.5%;  Pred. No. 59;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 LDKKQRFH 9
              | ||||||
Db        130 LGKKQRFH 137


RESULT 46
US-10-282-122A-54504
; Sequence 54504, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
;  APPLICANT: Wang, Liangsu
;  APPLICANT:  Zamudio, Carlos
;  APPLICANT:  Malone, Cheryl
;  APPLICANT:  Haselbeck, Robert
;  APPLICANT:  Ohlsen, Kari
;  APPLICANT:  Zyskind, Judith
;  APPLICANT:  Wall, Daniel
;  APPLICANT:  Trawick, John
;  APPLICANT:  Carr, Grant
;  APPLICANT:  Yamamoto, Robert
;  APPLICANT:  Forsyth, R.
;  APPLICANT:  Xu, H.
;  TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
;  FILE REFERENCE: ELITRA.034A
;  CURRENT APPLICATION NUMBER: US/10/282,122A
;  CURRENT FILING DATE:  2003-02-20
;  PRIOR APPLICATION NUMBER: 60/191,078
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: 60/206,848
;  PRIOR FILING DATE: 2000-05-23
;  PRIOR APPLICATION NUMBER: 60/207,727
;  PRIOR FILING DATE: 2000-05-26
;  PRIOR APPLICATION NUMBER: 60/230,335
;  PRIOR FILING DATE: 2000-09-06
;  PRIOR APPLICATION NUMBER: 60/230,347
;  PRIOR FILING DATE: 2000-09-09
;  PRIOR APPLICATION NUMBER: 60/242,578
;  PRIOR FILING DATE: 2000-10-23
;  PRIOR APPLICATION NUMBER: 60/253,625
;  PRIOR FILING DATE: 2000-11-27
;  PRIOR APPLICATION NUMBER: 60/257,931
;  PRIOR FILING DATE: 2000-12-22
;  PRIOR APPLICATION NUMBER: 60/267,636
;  PRIOR FILING DATE: 2001-02-09
;  PRIOR APPLICATION NUMBER: 60/269,308
;  PRIOR FILING DATE: 2001-02-16
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 78614
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 54504
;   LENGTH: 978
;   TYPE: PRT
;   ORGANISM: Campylobacter jejuni
US-10-282-122A-54504

  Query Match             71.2%;  Score 37;  DB 4;  Length 978;
  Best Local Similarity   75.0%;  Pred. No. 3.8e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRF 8
              |:|||| |
Db        101 HIDKKQNF 108


RESULT 47
US-11-021-949-359
; Sequence 359, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 359
;   LENGTH: 148
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-359

  Query Match             69.2%;  Score 36;  DB 6;  Length 148;
  Best Local Similarity   55.6%;  Pred. No. 87;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |:|: :|||
Db        119 HVDENKRFH 127


RESULT 48
US-11-021-949-21
; Sequence 21, Application US/11021949
```

```
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 21
;   LENGTH: 154
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-21

  Query Match             69.2%;  Score 36;  DB 6;  Length 154;
  Best Local Similarity   66.7%;  Pred. No. 91;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              | | |:|||
Db        122 HCDYKKRFH 130


RESULT 49
US-10-425-115-291659
; Sequence 291659, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 291659
;   LENGTH: 229
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(229)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_29079C.1.pep
US-10-425-115-291659

  Query Match             69.2%;  Score 36;  DB 4;  Length 229;
  Best Local Similarity   66.7%;  Pred. No. 1.4e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              ||: ||| |
Db        209 HLEAKQRIH 217


RESULT 50
US-09-925-301-1336
; Sequence 1336, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
;  FILE REFERENCE: PA106
;  CURRENT APPLICATION NUMBER: US/09/925,301
;  CURRENT FILING DATE:  2001-08-10
;  PRIOR APPLICATION NUMBER: PCT/US00/05882
;  PRIOR FILING DATE: 2000-03-08
;  PRIOR APPLICATION NUMBER: 60/124,270
;  PRIOR FILING DATE: 1999-03-12
;  NUMBER OF SEQ ID NOS: 1694
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1336
;   LENGTH: 231
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (52)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: SITE
;   LOCATION: (64)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: SITE
;   LOCATION: (73)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: SITE
;   LOCATION: (79)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: SITE
;   LOCATION: (82)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: SITE
;   LOCATION: (83)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: SITE
;   LOCATION: (118)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-925-301-1336

  Query Match             69.2%;  Score 36;  DB 3;  Length 231;
  Best Local Similarity   55.6%;  Pred. No. 1.4e+02;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||:::| |
Db        120 HLDERERLH 128


Search completed: May  5, 2006, 08:28:27
Job time : 62 secs
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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:19:00 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-55
Perfect score: 52
Sequence: 1 HLDKKQRFH 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 4 | 52 | 100.0 | 248 | 9 | US-10-530-253-3 | Sequence 3, Appli |
| 5 | 52 | 100.0 | 248 | 9 | US-10-530-253-5 | Sequence 5, Appli |
| 6 | 52 | 100.0 | 248 | 9 | US-10-530-253-7 | Sequence 7, Appli |
| 7 | 52 | 100.0 | 248 | 9 | US-10-530-253-9 | Sequence 9, Appli |
| 8 | 52 | 100.0 | 248 | 9 | US-10-530-253-11 | Sequence 11, Appl |
| 9 | 52 | 100.0 | 256 | 11 | US-11-192-923A-2 | Sequence 2, Appli |
| 10 | 48 | 92.3 | 149 | 9 | US-10-530-253-16 | Sequence 16, Appl |
| 11 | 40 | 76.9 | 149 | 9 | US-10-530-253-18 | Sequence 18, Appl |
| 12 | 40 | 76.9 | 155 | 9 | US-10-530-253-23 | Sequence 23, Appl |
| 13 | 39 | 75.0 | 158 | 9 | US-10-530-253-15 | Sequence 15, Appl |
| 14 | 38 | 73.1 | 158 | 9 | US-10-530-253-19 | Sequence 19, Appl |
| 15 | 35 | 67.3 | 158 | 9 | US-10-530-253-20 | Sequence 20, Appl |
| 16 | 35 | 67.3 | 160 | 9 | US-10-530-253-25 | Sequence 25, Appl |
| 17 | 34 | 65.4 | 640 | 11 | US-11-087-099-9638 | Sequence 9638, Ap |
| 18 | 33 | 63.5 | 149 | 9 | US-10-530-253-17 | Sequence 17, Appl |
| 19 | 33 | 63.5 | 149 | 9 | US-10-530-253-24 | Sequence 24, Appl |
| 20 | 33 | 63.5 | 151 | 9 | US-10-530-253-21 | Sequence 21, Appl |
| 21 | 33 | 63.5 | 152 | 9 | US-10-530-253-39 | Sequence 39, Appl |
| 22 | 33 | 63.5 | 336 | 11 | US-11-096-568A-33639 | Sequence 33639, A |
| 23 | 33 | 63.5 | 354 | 11 | US-11-096-568A-33638 | Sequence 33638, A |
| 24 | 33 | 63.5 | 379 | 10 | US-11-301-602-1 | Sequence 1, Appli |
| 25 | 33 | 63.5 | 396 | 11 | US-11-045-004-985 | Sequence 985, App |
| 26 | 33 | 63.5 | 624 | 9 | US-10-467-657-338 | Sequence 338, App |
| 27 | 33 | 63.5 | 661 | 11 | US-11-072-512-2645 | Sequence 2645, Ap |
| 28 | 33 | 63.5 | 5636 | 11 | US-11-065-695-20 | Sequence 20, Appl |
| 29 | 32.5 | 62.5 | 780 | 11 | US-11-188-298-1035 | Sequence 1035, Ap |
| 30 | 32 | 61.5 | 47 | 9 | US-10-467-657-5192 | Sequence 5192, Ap |
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| 32 | 32 | 61.5 | 100 | 11 | US-11-225-686-15 | Sequence 15, Appl |
| 33 | 32 | 61.5 | 100 | 11 | US-11-202-009-15 | Sequence 15, Appl |
| 34 | 32 | 61.5 | 164 | 11 | US-11-188-298-7503 | Sequence 7503, Ap |
| 35 | 32 | 61.5 | 404 | 11 | US-11-264-096-2108 | Sequence 2108, Ap |
| 36 | 32 | 61.5 | 438 | 11 | US-11-188-298-11114 | Sequence 11114, A |
| 37 | 32 | 61.5 | 499 | 11 | US-11-188-298-19084 | Sequence 19084, A |
| 38 | 32 | 61.5 | 585 | 9 | US-10-510-386-20 | Sequence 20, Appl |
| 39 | 32 | 61.5 | 594 | 9 | US-10-510-386-38 | Sequence 38, Appl |
| 40 | 32 | 61.5 | 611 | 11 | US-11-072-512-2596 | Sequence 2596, Ap |
| 41 | 32 | 61.5 | 644 | 11 | US-11-024-959-411 | Sequence 411, App |
| 42 | 32 | 61.5 | 1114 | 11 | US-11-096-568A-31532 | Sequence 31532, A |
| 43 | 32 | 61.5 | 1116 | 11 | US-11-096-568A-31531 | Sequence 31531, A |
| 44 | 32 | 61.5 | 1153 | 11 | US-11-096-568A-31530 | Sequence 31530, A |
| 45 | 31 | 59.6 | 112 | 11 | US-11-119-351-2 | Sequence 2, Appli |
| 46 | 31 | 59.6 | 184 | 11 | US-11-096-568A-21356 | Sequence 21356, A |
| 47 | 31 | 59.6 | 200 | 11 | US-11-096-568A-21355 | Sequence 21355, A |
| 48 | 31 | 59.6 | 269 | 11 | US-11-087-099-11084 | Sequence 11084, A |
| 49 | 31 | 59.6 | 275 | 9 | US-10-506-454-539 | Sequence 539, App |
| 50 | 31 | 59.6 | 280 | 11 | US-11-096-568A-422 | Sequence 422, App |
| 51 | 31 | 59.6 | 336 | 11 | US-11-264-096-191 | Sequence 191, App |
| 52 | 31 | 59.6 | 402 | 9 | US-10-506-454-788 | Sequence 788, App |
| 53 | 31 | 59.6 | 503 | 11 | US-11-087-099-11410 | Sequence 11410, A |
| 54 | 31 | 59.6 | 533 | 11 | US-11-096-568A-421 | Sequence 421, App |
| 55 | 31 | 59.6 | 548 | 11 | US-11-188-298-19579 | Sequence 19579, A |
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| 57 | 31 | 59.6 | 577 | 11 | US-11-072-512-2569 | Sequence 2569, Ap |
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| 59 | 31 | 59.6 | 599 | 11 | US-11-096-568A-419 | Sequence 419, App |
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| 64 | 30 | 57.7 | 10 | 9 | US-10-989-767A-502 | Sequence 502, App |
| 65 | 30 | 57.7 | 10 | 9 | US-10-989-767A-608 | Sequence 608, App |
| 66 | 30 | 57.7 | 105 | 11 | US-11-098-686-11204 | Sequence 11204, A |
| 67 | 30 | 57.7 | 183 | 11 | US-11-096-568A-4396 | Sequence 4396, Ap |
| 68 | 30 | 57.7 | 195 | 11 | US-11-096-568A-4395 | Sequence 4395, Ap |
| 69 | 30 | 57.7 | 208 | 11 | US-11-087-099-12428 | Sequence 12428, A |
| 70 | 30 | 57.7 | 217 | 10 | US-11-301-924-12 | Sequence 12, Appl |
| 71 | 30 | 57.7 | 255 | 11 | US-11-096-568A-4394 | Sequence 4394, Ap |
| 72 | 30 | 57.7 | 266 | 11 | US-11-234-786-534 | Sequence 534, App |
| 73 | 30 | 57.7 | 314 | 9 | US-10-877-346-31 | Sequence 31, Appl |
| 74 | 30 | 57.7 | 314 | 11 | US-11-169-041-237 | Sequence 237, App |
| 75 | 30 | 57.7 | 314 | 11 | US-11-096-568A-33582 | Sequence 33582, A |
| 76 | 30 | 57.7 | 330 | 9 | US-10-453-372-572 | Sequence 572, App |
| 77 | 30 | 57.7 | 332 | 9 | US-10-793-626-2350 | Sequence 2350, Ap |
| 78 | 30 | 57.7 | 334 | 11 | US-11-096-568A-33581 | Sequence 33581, A |
| 79 | 30 | 57.7 | 363 | 11 | US-11-096-568A-12572 | Sequence 12572, A |
| 80 | 30 | 57.7 | 395 | 9 | US-10-506-443A-58 | Sequence 58, Appl |
| 81 | 30 | 57.7 | 417 | 11 | US-11-079-463-8036 | Sequence 8036, Ap |
| 82 | 30 | 57.7 | 441 | 11 | US-11-096-568A-12571 | Sequence 12571, A |
| 83 | 30 | 57.7 | 442 | 11 | US-11-018-868-139 | Sequence 139, App |
| 84 | 30 | 57.7 | 450 | 9 | US-10-506-443A-61 | Sequence 61, Appl |
| 85 | 30 | 57.7 | 456 | 11 | US-11-147-763-27 | Sequence 27, Appl |
| 86 | 30 | 57.7 | 466 | 11 | US-11-096-568A-12570 | Sequence 12570, A |
| 87 | 30 | 57.7 | 468 | 9 | US-10-506-443A-59 | Sequence 59, Appl |
| 88 | 30 | 57.7 | 470 | 9 | US-10-506-443A-60 | Sequence 60, Appl |
| 89 | 30 | 57.7 | 480 | 11 | US-11-096-568A-249 | Sequence 249, App |
| 90 | 30 | 57.7 | 480 | 11 | US-11-096-568A-251 | Sequence 251, App |
| 91 | 30 | 57.7 | 482 | 11 | US-11-098-686-11344 | Sequence 11344, A |
| 92 | 30 | 57.7 | 520 | 11 | US-11-096-568A-248 | Sequence 248, App |
| 93 | 30 | 57.7 | 533 | 9 | US-10-506-443A-23 | Sequence 23, Appl |
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| | | | | | | |
|---|---|---|---|---|---|---|
| 95 | 30 | 57.7 | 542 | 9 | US-10-453-372-588 | Sequence 588, App |
| 96 | 30 | 57.7 | 542 | 9 | US-10-453-372-590 | Sequence 590, App |
| 97 | 30 | 57.7 | 549 | 9 | US-10-453-372-574 | Sequence 574, App |
| 98 | 30 | 57.7 | 549 | 11 | US-11-072-512-3152 | Sequence 3152, Ap |
| 99 | 30 | 57.7 | 549 | 11 | US-11-079-463-6816 | Sequence 6816, Ap |
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| 101 | 30 | 57.7 | 551 | 11 | US-11-109-156-36 | Sequence 36, Appl |
| 102 | 30 | 57.7 | 556 | 9 | US-10-453-372-584 | Sequence 584, App |
| 103 | 30 | 57.7 | 568 | 9 | US-10-784-004-390 | Sequence 390, App |
| 104 | 30 | 57.7 | 569 | 9 | US-10-506-443A-24 | Sequence 24, Appl |
| 105 | 30 | 57.7 | 580 | 9 | US-10-453-372-596 | Sequence 596, App |
| 106 | 30 | 57.7 | 580 | 9 | US-10-453-372-598 | Sequence 598, App |
| 107 | 30 | 57.7 | 605 | 9 | US-10-784-004-770 | Sequence 770, App |
| 108 | 30 | 57.7 | 605 | 9 | US-10-784-004-1106 | Sequence 1106, Ap |
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| 110 | 30 | 57.7 | 629 | 9 | US-10-453-372-578 | Sequence 578, App |
| 111 | 30 | 57.7 | 642 | 9 | US-10-453-372-568 | Sequence 568, App |
| 112 | 30 | 57.7 | 749 | 11 | US-11-072-512-2622 | Sequence 2622, Ap |
| 113 | 30 | 57.7 | 788 | 11 | US-11-188-298-4463 | Sequence 4463, Ap |
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| 115 | 30 | 57.7 | 798 | 9 | US-10-877-346-28 | Sequence 28, Appl |
| 116 | 30 | 57.7 | 798 | 9 | US-10-989-767A-658 | Sequence 658, App |
| 117 | 30 | 57.7 | 798 | 11 | US-11-188-298-7394 | Sequence 7394, Ap |
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| 119 | 30 | 57.7 | 821 | 9 | US-10-453-372-600 | Sequence 600, App |
| 120 | 30 | 57.7 | 837 | 9 | US-10-453-372-594 | Sequence 594, App |
| 121 | 30 | 57.7 | 837 | 9 | US-10-877-346-5 | Sequence 5, Appli |
| 122 | 30 | 57.7 | 841 | 9 | US-10-453-372-586 | Sequence 586, App |
| 123 | 30 | 57.7 | 841 | 9 | US-10-453-372-592 | Sequence 592, App |
| 124 | 30 | 57.7 | 841 | 9 | US-10-453-372-602 | Sequence 602, App |
| 125 | 30 | 57.7 | 841 | 9 | US-10-877-346-2 | Sequence 2, Appli |
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| 133 | 30 | 57.7 | 1165 | 9 | US-10-784-004-775 | Sequence 775, App |
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| 151 | 30 | 57.7 | 1795 | 9 | US-10-784-004-662 | Sequence 662, App |
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| 154 | 30 | 57.7 | 1935 | 9 | US-10-784-004-329 | Sequence 329, App |
| 155 | 30 | 57.7 | 1935 | 9 | US-10-784-004-331 | Sequence 331, App |
| 156 | 30 | 57.7 | 1935 | 9 | US-10-784-004-440 | Sequence 440, App |
| 157 | 30 | 57.7 | 1935 | 9 | US-10-784-004-633 | Sequence 633, App |
| 158 | 30 | 57.7 | 1935 | 9 | US-10-784-004-650 | Sequence 650, App |
| 159 | 30 | 57.7 | 1935 | 9 | US-10-784-004-652 | Sequence 652, App |
| 160 | 30 | 57.7 | 1935 | 9 | US-10-784-004-757 | Sequence 757, App |
| 161 | 30 | 57.7 | 1935 | 9 | US-10-784-004-781 | Sequence 781, App |
| 162 | 30 | 57.7 | 1935 | 9 | US-10-784-004-899 | Sequence 899, App |
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| 164 | 30 | 57.7 | 1935 | 9 | US-10-784-004-914 | Sequence 914, App |
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| 170 | 30 | 57.7 | 1935 | 9 | US-10-784-004-1211 | Sequence 1211, Ap |
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| 172 | 30 | 57.7 | 1938 | 9 | US-10-784-004-458 | Sequence 458, App |
| 173 | 30 | 57.7 | 1938 | 9 | US-10-784-004-469 | Sequence 469, App |
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| 175 | 30 | 57.7 | 1940 | 9 | US-10-784-004-670 | Sequence 670, App |
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| 177 | 30 | 57.7 | 1940 | 9 | US-10-784-004-745 | Sequence 745, App |
| 178 | 30 | 57.7 | 1940 | 9 | US-10-784-004-1045 | Sequence 1045, Ap |
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| 188 | 29 | 55.8 | 210 | 11 | US-11-096-568A-7276 | Sequence 7276, Ap |
| 189 | 29 | 55.8 | 214 | 11 | US-11-096-568A-19787 | Sequence 19787, A |
| 190 | 29 | 55.8 | 223 | 11 | US-11-156-516-34 | Sequence 34, Appl |
| 191 | 29 | 55.8 | 233 | 11 | US-11-188-298-14742 | Sequence 14742, A |
| 192 | 29 | 55.8 | 235 | 11 | US-11-096-568A-22096 | Sequence 22096, A |
| 193 | 29 | 55.8 | 235 | 11 | US-11-188-298-17302 | Sequence 17302, A |
| 194 | 29 | 55.8 | 235 | 11 | US-11-188-298-20181 | Sequence 20181, A |
| 195 | 29 | 55.8 | 248 | 11 | US-11-096-568A-19786 | Sequence 19786, A |
| 196 | 29 | 55.8 | 252 | 11 | US-11-096-568A-7275 | Sequence 7275, Ap |
| 197 | 29 | 55.8 | 253 | 11 | US-11-096-568A-7274 | Sequence 7274, Ap |
| 198 | 29 | 55.8 | 259 | 11 | US-11-096-568A-22095 | Sequence 22095, A |
| 199 | 29 | 55.8 | 272 | 11 | US-11-188-298-21990 | Sequence 21990, A |
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| 204 | 29 | 55.8 | 309 | 11 | US-11-087-099-2108 | Sequence 2108, Ap |
| 205 | 29 | 55.8 | 327 | 11 | US-11-087-099-6666 | Sequence 6666, Ap |
| 206 | 29 | 55.8 | 342 | 11 | US-11-072-512-2985 | Sequence 2985, Ap |
| 207 | 29 | 55.8 | 345 | 9 | US-10-793-626-3168 | Sequence 3168, Ap |
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| 209 | 29 | 55.8 | 348 | 11 | US-11-087-099-10990 | Sequence 10990, A |
| 210 | 29 | 55.8 | 354 | 11 | US-11-087-099-2758 | Sequence 2758, Ap |
| 211 | 29 | 55.8 | 388 | 11 | US-11-087-099-8477 | Sequence 8477, Ap |
| 212 | 29 | 55.8 | 406 | 11 | US-11-147-763-25 | Sequence 25, Appl |
| 213 | 29 | 55.8 | 413 | 11 | US-11-087-099-4322 | Sequence 4322, Ap |
| 214 | 29 | 55.8 | 415 | 11 | US-11-072-512-2624 | Sequence 2624, Ap |
| 215 | 29 | 55.8 | 449 | 11 | US-11-098-686-10535 | Sequence 10535, A |
| 216 | 29 | 55.8 | 451 | 11 | US-11-079-463-8965 | Sequence 8965, Ap |
| 217 | 29 | 55.8 | 455 | 9 | US-10-506-454-238 | Sequence 238, App |
| 218 | 29 | 55.8 | 467 | 11 | US-11-188-298-13413 | Sequence 13413, A |
| 219 | 29 | 55.8 | 471 | 11 | US-11-188-298-3849 | Sequence 3849, Ap |
| 220 | 29 | 55.8 | 484 | 11 | US-11-045-004-1190 | Sequence 1190, Ap |
| 221 | 29 | 55.8 | 553 | 11 | US-11-045-004-2168 | Sequence 2168, Ap |
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| 225 | 29 | 55.8 | 686 | 11 | US-11-051-724-48 | Sequence 48, Appl |
| 226 | 29 | 55.8 | 686 | 11 | US-11-051-724-50 | Sequence 50, Appl |
| 227 | 29 | 55.8 | 686 | 11 | US-11-051-724-52 | Sequence 52, Appl |
| 228 | 29 | 55.8 | 783 | 9 | US-10-204-639-48 | Sequence 48, Appl |
| 229 | 29 | 55.8 | 822 | 11 | US-11-188-298-18684 | Sequence 18684, A |
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| 235 | 29 | 55.8 | 1252 | 11 | US-11-115-639-36 | Sequence 36, Appl |
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| 237 | 29 | 55.8 | 1359 | 11 | US-11-014-147-34 | Sequence 34, Appl |
| 238 | 29 | 55.8 | 1463 | 11 | US-11-096-568A-14692 | Sequence 14692, A |
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| 240 | 29 | 55.8 | 1529 | 11 | US-11-096-568A-14690 | Sequence 14690, A |

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| 241 | 29 | 55.8 | 3390 | 9 | US-10-204-252-20 | Sequence 20, Appl |
| 242 | 29 | 55.8 | 3390 | 9 | US-10-204-252-22 | Sequence 22, Appl |
| 243 | 29 | 55.8 | 8746 | 11 | US-11-098-686-10232 | Sequence 10232, A |
| 244 | 28.5 | 54.8 | 456 | 11 | US-11-079-463-8841 | Sequence 8841, Ap |
| 245 | 28.5 | 54.8 | 570 | 11 | US-11-087-099-1898 | Sequence 1898, Ap |
| 246 | 28.5 | 54.8 | 570 | 11 | US-11-087-099-3474 | Sequence 3474, Ap |
| 247 | 28.5 | 54.8 | 570 | 11 | US-11-188-298-1884 | Sequence 1884, Ap |
| 248 | 28.5 | 54.8 | 570 | 11 | US-11-188-298-3272 | Sequence 3272, Ap |
| 249 | 28 | 53.8 | 10 | 9 | US-10-989-767A-62 | Sequence 62, Appl |
| 250 | 28 | 53.8 | 10 | 9 | US-10-989-767A-292 | Sequence 292, App |
| 251 | 28 | 53.8 | 10 | 9 | US-10-989-767A-363 | Sequence 363, App |
| 252 | 28 | 53.8 | 10 | 11 | US-11-123-290-31 | Sequence 31, Appl |
| 253 | 28 | 53.8 | 10 | 11 | US-11-123-290-68 | Sequence 68, Appl |
| 254 | 28 | 53.8 | 11 | 11 | US-11-123-290-32 | Sequence 32, Appl |
| 255 | 28 | 53.8 | 11 | 11 | US-11-123-290-69 | Sequence 69, Appl |
| 256 | 28 | 53.8 | 12 | 11 | US-11-123-290-26 | Sequence 26, Appl |
| 257 | 28 | 53.8 | 12 | 11 | US-11-123-290-33 | Sequence 33, Appl |
| 258 | 28 | 53.8 | 12 | 11 | US-11-123-290-63 | Sequence 63, Appl |
| 259 | 28 | 53.8 | 12 | 11 | US-11-123-290-70 | Sequence 70, Appl |
| 260 | 28 | 53.8 | 13 | 11 | US-11-123-290-34 | Sequence 34, Appl |
| 261 | 28 | 53.8 | 13 | 11 | US-11-123-290-71 | Sequence 71, Appl |
| 262 | 28 | 53.8 | 14 | 11 | US-11-123-290-27 | Sequence 27, Appl |
| 263 | 28 | 53.8 | 14 | 11 | US-11-123-290-39 | Sequence 39, Appl |
| 264 | 28 | 53.8 | 14 | 11 | US-11-123-290-43 | Sequence 43, Appl |
| 265 | 28 | 53.8 | 14 | 11 | US-11-123-290-64 | Sequence 64, Appl |
| 266 | 28 | 53.8 | 14 | 11 | US-11-123-290-76 | Sequence 76, Appl |
| 267 | 28 | 53.8 | 14 | 11 | US-11-123-290-80 | Sequence 80, Appl |
| 268 | 28 | 53.8 | 15 | 11 | US-11-123-290-40 | Sequence 40, Appl |
| 269 | 28 | 53.8 | 15 | 11 | US-11-123-290-44 | Sequence 44, Appl |
| 270 | 28 | 53.8 | 15 | 11 | US-11-123-290-77 | Sequence 77, Appl |
| 271 | 28 | 53.8 | 15 | 11 | US-11-123-290-81 | Sequence 81, Appl |
| 272 | 28 | 53.8 | 16 | 11 | US-11-123-290-28 | Sequence 28, Appl |
| 273 | 28 | 53.8 | 16 | 11 | US-11-123-290-41 | Sequence 41, Appl |
| 274 | 28 | 53.8 | 16 | 11 | US-11-123-290-65 | Sequence 65, Appl |
| 275 | 28 | 53.8 | 16 | 11 | US-11-123-290-78 | Sequence 78, Appl |
| 276 | 28 | 53.8 | 17 | 11 | US-11-123-290-29 | Sequence 29, Appl |
| 277 | 28 | 53.8 | 17 | 11 | US-11-123-290-66 | Sequence 66, Appl |
| 278 | 28 | 53.8 | 29 | 9 | US-10-966-648-11 | Sequence 11, Appl |
| 279 | 28 | 53.8 | 29 | 11 | US-11-126-772-11 | Sequence 11, Appl |
| 280 | 28 | 53.8 | 35 | 9 | US-10-467-657-1014 | Sequence 1014, Ap |
| 281 | 28 | 53.8 | 41 | 11 | US-11-096-568A-7930 | Sequence 7930, Ap |
| 282 | 28 | 53.8 | 45 | 9 | US-10-467-657-5080 | Sequence 5080, Ap |
| 283 | 28 | 53.8 | 84 | 9 | US-10-966-648-10 | Sequence 10, Appl |
| 284 | 28 | 53.8 | 84 | 11 | US-11-126-772-10 | Sequence 10, Appl |
| 285 | 28 | 53.8 | 99 | 9 | US-10-241-375-18 | Sequence 18, Appl |
| 286 | 28 | 53.8 | 99 | 11 | US-11-262-284-18 | Sequence 18, Appl |
| 287 | 28 | 53.8 | 109 | 9 | US-10-966-648-5 | Sequence 5, Appli |
| 288 | 28 | 53.8 | 109 | 11 | US-11-126-772-5 | Sequence 5, Appli |
| 289 | 28 | 53.8 | 137 | 11 | US-11-188-298-16570 | Sequence 16570, A |
| 290 | 28 | 53.8 | 155 | 9 | US-10-793-626-1662 | Sequence 1662, Ap |
| 291 | 28 | 53.8 | 155 | 9 | US-10-986-405-231 | Sequence 231, App |
| 292 | 28 | 53.8 | 155 | 11 | US-11-264-096-1804 | Sequence 1804, Ap |
| 293 | 28 | 53.8 | 159 | 11 | US-11-079-463-7743 | Sequence 7743, Ap |
| 294 | 28 | 53.8 | 160 | 11 | US-11-072-512-3633 | Sequence 3633, Ap |
| 295 | 28 | 53.8 | 179 | 11 | US-11-096-568A-13622 | Sequence 13622, A |
| 296 | 28 | 53.8 | 202 | 11 | US-11-264-096-1805 | Sequence 1805, Ap |
| 297 | 28 | 53.8 | 206 | 11 | US-11-090-439-44 | Sequence 44, Appl |
| 298 | 28 | 53.8 | 214 | 11 | US-11-188-298-20137 | Sequence 20137, A |
| 299 | 28 | 53.8 | 234 | 11 | US-11-264-096-1803 | Sequence 1803, Ap |
| 300 | 28 | 53.8 | 242 | 11 | US-11-096-568A-24997 | Sequence 24997, A |
| 301 | 28 | 53.8 | 247 | 11 | US-11-096-568A-27676 | Sequence 27676, A |
| 302 | 28 | 53.8 | 254 | 11 | US-11-188-298-1659 | Sequence 1659, Ap |
| 303 | 28 | 53.8 | 254 | 11 | US-11-045-004-914 | Sequence 914, App |
| 304 | 28 | 53.8 | 261 | 7 | US-09-995-493-126 | Sequence 126, App |
| 305 | 28 | 53.8 | 271 | 11 | US-11-051-720-1387 | Sequence 1387, Ap |
| 306 | 28 | 53.8 | 272 | 11 | US-11-096-568A-13621 | Sequence 13621, A |
| 307 | 28 | 53.8 | 281 | 11 | US-11-096-568A-27675 | Sequence 27675, A |
| 308 | 28 | 53.8 | 288 | 11 | US-11-087-099-5435 | Sequence 5435, Ap |
| 309 | 28 | 53.8 | 298 | 11 | US-11-096-568A-19767 | Sequence 19767, A |
| 310 | 28 | 53.8 | 301 | 11 | US-11-045-004-2096 | Sequence 2096, Ap |
| 311 | 28 | 53.8 | 302 | 11 | US-11-096-568A-8309 | Sequence 8309, Ap |
| 312 | 28 | 53.8 | 302 | 11 | US-11-096-568A-31656 | Sequence 31656, A |
| 313 | 28 | 53.8 | 306 | 11 | US-11-096-568A-27674 | Sequence 27674, A |
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| 315 | 28 | 53.8 | 329 | 11 | US-11-188-298-22494 | Sequence 22494, A |
| 316 | 28 | 53.8 | 331 | 11 | US-11-188-298-15199 | Sequence 15199, A |
| 317 | 28 | 53.8 | 333 | 11 | US-11-188-298-11144 | Sequence 11144, A |
| 318 | 28 | 53.8 | 339 | 11 | US-11-098-686-10547 | Sequence 10547, A |
| 319 | 28 | 53.8 | 341 | 11 | US-11-172-740-452 | Sequence 452, App |
| 320 | 28 | 53.8 | 341 | 11 | US-11-172-740-453 | Sequence 453, App |
| 321 | 28 | 53.8 | 344 | 11 | US-11-172-740-451 | Sequence 451, App |
| 322 | 28 | 53.8 | 344 | 11 | US-11-172-740-455 | Sequence 455, App |
| 323 | 28 | 53.8 | 346 | 11 | US-11-045-004-939 | Sequence 939, App |
| 324 | 28 | 53.8 | 355 | 9 | US-10-467-657-7996 | Sequence 7996, Ap |
| 325 | 28 | 53.8 | 355 | 11 | US-11-079-463-7343 | Sequence 7343, Ap |
| 326 | 28 | 53.8 | 355 | 11 | US-11-188-298-4958 | Sequence 4958, Ap |
| 327 | 28 | 53.8 | 355 | 11 | US-11-188-298-13684 | Sequence 13684, A |
| 328 | 28 | 53.8 | 357 | 11 | US-11-165-466-2 | Sequence 2, Appli |
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| 330 | 28 | 53.8 | 361 | 9 | US-10-131-826A-252 | Sequence 252, App |
| 331 | 28 | 53.8 | 361 | 9 | US-10-973-115B-252 | Sequence 252, App |
| 332 | 28 | 53.8 | 361 | 9 | US-10-137-873A-252 | Sequence 252, App |
| 333 | 28 | 53.8 | 361 | 9 | US-10-152-370-252 | Sequence 252, App |
| 334 | 28 | 53.8 | 361 | 11 | US-11-290-153-252 | Sequence 252, App |
| 335 | 28 | 53.8 | 364 | 11 | US-11-096-568A-19766 | Sequence 19766, A |
| 336 | 28 | 53.8 | 393 | 11 | US-11-010-239-99 | Sequence 99, Appl |
| 337 | 28 | 53.8 | 396 | 11 | US-11-172-740-454 | Sequence 454, App |
| 338 | 28 | 53.8 | 408 | 11 | US-11-087-099-9365 | Sequence 9365, Ap |
| 339 | 28 | 53.8 | 408 | 11 | US-11-188-298-8701 | Sequence 8701, Ap |
| 340 | 28 | 53.8 | 437 | 11 | US-11-188-298-19939 | Sequence 19939, A |
| 341 | 28 | 53.8 | 439 | 11 | US-11-087-099-2036 | Sequence 2036, Ap |
| 342 | 28 | 53.8 | 439 | 11 | US-11-188-298-2010 | Sequence 2010, Ap |
| 343 | 28 | 53.8 | 447 | 11 | US-11-050-857-604 | Sequence 604, App |
| 344 | 28 | 53.8 | 447 | 11 | US-11-051-720-1286 | Sequence 1286, Ap |
| 345 | 28 | 53.8 | 478 | 11 | US-11-177-506-51 | Sequence 51, Appl |
| 346 | 28 | 53.8 | 478 | 11 | US-11-050-857-602 | Sequence 602, App |
| 347 | 28 | 53.8 | 478 | 11 | US-11-050-857-1000 | Sequence 1000, Ap |
| 348 | 28 | 53.8 | 478 | 11 | US-11-051-720-1418 | Sequence 1418, Ap |
| 349 | 28 | 53.8 | 478 | 11 | US-11-051-720-1696 | Sequence 1696, Ap |
| 350 | 28 | 53.8 | 482 | 11 | US-11-079-463-7816 | Sequence 7816, Ap |
| 351 | 28 | 53.8 | 484 | 11 | US-11-096-568A-10466 | Sequence 10466, A |
| 352 | 28 | 53.8 | 493 | 11 | US-11-087-099-987 | Sequence 987, App |
| 353 | 28 | 53.8 | 493 | 11 | US-11-188-298-1046 | Sequence 1046, Ap |
| 354 | 28 | 53.8 | 494 | 11 | US-11-188-298-13170 | Sequence 13170, A |
| 355 | 28 | 53.8 | 495 | 11 | US-11-051-720-1452 | Sequence 1452, Ap |
| 356 | 28 | 53.8 | 495 | 11 | US-11-188-298-2632 | Sequence 2632, Ap |
| 357 | 28 | 53.8 | 496 | 11 | US-11-051-720-1453 | Sequence 1453, Ap |
| 358 | 28 | 53.8 | 497 | 11 | US-11-287-235-10 | Sequence 10, Appl |
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| 360 | 28 | 53.8 | 498 | 11 | US-11-287-235-7 | Sequence 7, Appli |
| 361 | 28 | 53.8 | 505 | 11 | US-11-096-568A-10465 | Sequence 10465, A |
| 362 | 28 | 53.8 | 505 | 11 | US-11-188-298-2313 | Sequence 2313, Ap |
| 363 | 28 | 53.8 | 505 | 11 | US-11-188-298-11619 | Sequence 11619, A |
| 364 | 28 | 53.8 | 505 | 11 | US-11-188-298-15229 | Sequence 15229, A |
| 365 | 28 | 53.8 | 505 | 11 | US-11-188-298-15346 | Sequence 15346, A |
| 366 | 28 | 53.8 | 507 | 11 | US-11-087-099-10623 | Sequence 10623, A |
| 367 | 28 | 53.8 | 507 | 11 | US-11-188-298-9827 | Sequence 9827, Ap |
| 368 | 28 | 53.8 | 509 | 11 | US-11-077-619-88 | Sequence 88, Appl |
| 369 | 28 | 53.8 | 512 | 11 | US-11-096-568A-10464 | Sequence 10464, A |
| 370 | 28 | 53.8 | 515 | 9 | US-10-915-002-240 | Sequence 240, App |
| 371 | 28 | 53.8 | 538 | 11 | US-11-087-099-5646 | Sequence 5646, Ap |
| 372 | 28 | 53.8 | 545 | 9 | US-10-493-909-86 | Sequence 86, Appl |
| 373 | 28 | 53.8 | 555 | 11 | US-11-051-720-1389 | Sequence 1389, Ap |
| 374 | 28 | 53.8 | 560 | 9 | US-10-623-155-225 | Sequence 225, App |
| 375 | 28 | 53.8 | 560 | 9 | US-10-784-004-1217 | Sequence 1217, Ap |
| 376 | 28 | 53.8 | 563 | 9 | US-10-821-234-1067 | Sequence 1067, Ap |
| 377 | 28 | 53.8 | 572 | 9 | US-10-218-784-42 | Sequence 42, Appl |
| 378 | 28 | 53.8 | 572 | 9 | US-10-219-061-42 | Sequence 42, Appl |
| 379 | 28 | 53.8 | 572 | 9 | US-10-219-062-42 | Sequence 42, Appl |
| 380 | 28 | 53.8 | 572 | 9 | US-10-219-064-42 | Sequence 42, Appl |
| 381 | 28 | 53.8 | 572 | 9 | US-10-233-134-42 | Sequence 42, Appl |
| 382 | 28 | 53.8 | 582 | 11 | US-11-188-298-12921 | Sequence 12921, A |
| 383 | 28 | 53.8 | 586 | 11 | US-11-072-512-2947 | Sequence 2947, Ap |
| 384 | 28 | 53.8 | 627 | 11 | US-11-130-559-4 | Sequence 4, Appli |
| 385 | 28 | 53.8 | 627 | 11 | US-11-130-559-7 | Sequence 7, Appli |
| 386 | 28 | 53.8 | 682 | 11 | US-11-079-463-8936 | Sequence 8936, Ap |

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| 388 | 28 | 53.8 | 713 | 11 | US-11-188-298-18086 | Sequence 18086, A |
| 389 | 28 | 53.8 | 718 | 11 | US-11-147-109-6 | Sequence 6, Appli |
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| 391 | 28 | 53.8 | 770 | 11 | US-11-188-298-10473 | Sequence 10473, A |
| 392 | 28 | 53.8 | 777 | 11 | US-11-079-463-8738 | Sequence 8738, Ap |
| 393 | 28 | 53.8 | 816 | 11 | US-11-072-512-2341 | Sequence 2341, Ap |
| 394 | 28 | 53.8 | 879 | 11 | US-11-096-568A-30505 | Sequence 30505, A |
| 395 | 28 | 53.8 | 885 | 11 | US-11-045-004-1218 | Sequence 1218, Ap |
| 396 | 28 | 53.8 | 890 | 11 | US-11-106-623-28 | Sequence 28, Appl |
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| 398 | 28 | 53.8 | 943 | 9 | US-10-821-234-1012 | Sequence 1012, Ap |
| 399 | 28 | 53.8 | 1006 | 11 | US-11-188-298-21918 | Sequence 21918, A |
| 400 | 28 | 53.8 | 1033 | 11 | US-11-079-463-9280 | Sequence 9280, Ap |
| 401 | 28 | 53.8 | 1104 | 9 | US-10-330-773-794 | Sequence 794, App |
| 402 | 28 | 53.8 | 1132 | 9 | US-10-915-002-224 | Sequence 224, App |
| 403 | 28 | 53.8 | 1137 | 11 | US-11-087-099-5799 | Sequence 5799, Ap |
| 404 | 28 | 53.8 | 1155 | 11 | US-11-098-686-10550 | Sequence 10550, A |
| 405 | 28 | 53.8 | 1250 | 9 | US-10-330-773-792 | Sequence 792, App |
| 406 | 28 | 53.8 | 1388 | 9 | US-10-501-035-350 | Sequence 350, App |
| 407 | 28 | 53.8 | 1554 | 11 | US-11-186-284-93 | Sequence 93, Appl |
| 408 | 28 | 53.8 | 1644 | 9 | US-10-204-639-52 | Sequence 52, Appl |
| 409 | 28 | 53.8 | 2053 | 11 | US-11-013-759-9 | Sequence 9, Appli |
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| 413 | 27 | 51.9 | 48 | 11 | US-11-123-896-138 | Sequence 138, App |
| 414 | 27 | 51.9 | 57 | 9 | US-10-467-657-1312 | Sequence 1312, Ap |
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| 416 | 27 | 51.9 | 79 | 11 | US-11-123-896-134 | Sequence 134, App |
| 417 | 27 | 51.9 | 84 | 11 | US-11-096-568A-7042 | Sequence 7042, Ap |
| 418 | 27 | 51.9 | 89 | 11 | US-11-079-463-8564 | Sequence 8564, Ap |
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| 427 | 27 | 51.9 | 169 | 11 | US-11-188-298-816 | Sequence 816, App |
| 428 | 27 | 51.9 | 171 | 11 | US-11-096-568A-2885 | Sequence 2885, Ap |
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| 430 | 27 | 51.9 | 185 | 11 | US-11-188-298-1058 | Sequence 1058, Ap |
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| 433 | 27 | 51.9 | 205 | 11 | US-11-096-568A-8146 | Sequence 8146, Ap |
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| 435 | 27 | 51.9 | 211 | 9 | US-10-467-657-2142 | Sequence 2142, Ap |
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| 439 | 27 | 51.9 | 229 | 9 | US-10-137-873A-472 | Sequence 472, App |
| 440 | 27 | 51.9 | 229 | 9 | US-10-152-370-472 | Sequence 472, App |
| 441 | 27 | 51.9 | 229 | 11 | US-11-290-153-472 | Sequence 472, App |
| 442 | 27 | 51.9 | 231 | 9 | US-10-915-002-347 | Sequence 347, App |
| 443 | 27 | 51.9 | 231 | 9 | US-10-915-002-351 | Sequence 351, App |
| 444 | 27 | 51.9 | 233 | 11 | US-11-096-568A-2884 | Sequence 2884, Ap |
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| 450 | 27 | 51.9 | 246 | 11 | US-11-096-568A-12685 | Sequence 12685, A |
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| 455 | 27 | 51.9 | 249 | 11 | US-11-045-004-1079 | Sequence 1079, Ap |
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| 459 | 27 | 51.9 | 253 | 11 | US-11-087-099-4911 | Sequence 4911, Ap |
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| 462 | 27 | 51.9 | 256 | 9 | US-10-537-002-64 | Sequence 64, Appl |
| 463 | 27 | 51.9 | 256 | 9 | US-10-194-487-374 | Sequence 374, App |
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| 465 | 27 | 51.9 | 256 | 9 | US-10-195-888-374 | Sequence 374, App |
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| 472 | 27 | 51.9 | 262 | 11 | US-11-096-568A-11225 | Sequence 11225, A |
| 473 | 27 | 51.9 | 266 | 11 | US-11-096-568A-2883 | Sequence 2883, Ap |
| 474 | 27 | 51.9 | 266 | 11 | US-11-079-463-5850 | Sequence 5850, Ap |
| 475 | 27 | 51.9 | 268 | 11 | US-11-096-568A-8145 | Sequence 8145, Ap |
| 476 | 27 | 51.9 | 269 | 11 | US-11-096-568A-4300 | Sequence 4300, Ap |
| 477 | 27 | 51.9 | 270 | 11 | US-11-072-512-3274 | Sequence 3274, Ap |
| 478 | 27 | 51.9 | 272 | 11 | US-11-096-568A-32937 | Sequence 32937, A |
| 479 | 27 | 51.9 | 275 | 11 | US-11-096-568A-1954 | Sequence 1954, Ap |
| 480 | 27 | 51.9 | 278 | 11 | US-11-096-568A-11104 | Sequence 11104, A |
| 481 | 27 | 51.9 | 278 | 11 | US-11-096-568A-11224 | Sequence 11224, A |
| 482 | 27 | 51.9 | 279 | 11 | US-11-165-067A-19 | Sequence 19, Appl |
| 483 | 27 | 51.9 | 282 | 11 | US-11-096-568A-3004 | Sequence 3004, Ap |
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| 487 | 27 | 51.9 | 284 | 11 | US-11-144-947-416 | Sequence 416, App |
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| 498 | 27 | 51.9 | 303 | 11 | US-11-172-740-1720 | Sequence 1720, Ap |
| 499 | 27 | 51.9 | 306 | 11 | US-11-102-497-4 | Sequence 4, Appli |
| 500 | 27 | 51.9 | 308 | 10 | US-11-300-765-2 | Sequence 2, Appli |
| 501 | 27 | 51.9 | 308 | 11 | US-11-072-512-2169 | Sequence 2169, Ap |
| 502 | 27 | 51.9 | 308 | 11 | US-11-072-512-2734 | Sequence 2734, Ap |
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| 507 | 27 | 51.9 | 324 | 11 | US-11-188-298-14051 | Sequence 14051, A |
| 508 | 27 | 51.9 | 325 | 11 | US-11-096-568A-25271 | Sequence 25271, A |
| 509 | 27 | 51.9 | 331 | 9 | US-10-793-626-3256 | Sequence 3256, Ap |
| 510 | 27 | 51.9 | 332 | 11 | US-11-172-740-1388 | Sequence 1388, Ap |
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| 514 | 27 | 51.9 | 334 | 11 | US-11-188-298-17447 | Sequence 17447, A |
| 515 | 27 | 51.9 | 334 | 11 | US-11-188-298-18112 | Sequence 18112, A |
| 516 | 27 | 51.9 | 336 | 11 | US-11-188-298-6665 | Sequence 6665, Ap |
| 517 | 27 | 51.9 | 337 | 11 | US-11-096-568A-12683 | Sequence 12683, A |
| 518 | 27 | 51.9 | 340 | 11 | US-11-096-568A-5317 | Sequence 5317, Ap |
| 519 | 27 | 51.9 | 341 | 11 | US-11-096-568A-20989 | Sequence 20989, A |
| 520 | 27 | 51.9 | 343 | 11 | US-11-096-568A-1952 | Sequence 1952, Ap |
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| 522 | 27 | 51.9 | 343 | 11 | US-11-188-298-13013 | Sequence 13013, A |
| 523 | 27 | 51.9 | 347 | 11 | US-11-096-568A-5198 | Sequence 5198, Ap |
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| 528 | 27 | 51.9 | 358 | 11 | US-11-096-568A-25270 | Sequence 25270, A |
| 529 | 27 | 51.9 | 362 | 11 | US-11-072-512-2384 | Sequence 2384, Ap |
| 530 | 27 | 51.9 | 367 | 11 | US-11-087-099-8276 | Sequence 8276, Ap |
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| 546 | 27 | 51.9 | 445 | 11 | US-11-072-512-2209 | Sequence 2209, Ap |
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| 548 | 27 | 51.9 | 446 | 11 | US-11-146-428-71 | Sequence 71, Appl |
| 549 | 27 | 51.9 | 447 | 11 | US-11-264-096-1720 | Sequence 1720, Ap |
| 550 | 27 | 51.9 | 451 | 11 | US-11-096-568A-15629 | Sequence 15629, A |
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| 553 | 27 | 51.9 | 463 | 11 | US-11-096-568A-22044 | Sequence 22044, A |
| 554 | 27 | 51.9 | 465 | 11 | US-11-096-568A-5197 | Sequence 5197, Ap |
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| 557 | 27 | 51.9 | 468 | 11 | US-11-096-568A-18730 | Sequence 18730, A |
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| 565 | 27 | 51.9 | 521 | 11 | US-11-087-099-6169 | Sequence 6169, Ap |
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| 573 | 27 | 51.9 | 566 | 9 | US-10-195-889-56 | Sequence 56, Appl |
| 574 | 27 | 51.9 | 574 | 11 | US-11-079-463-8012 | Sequence 8012, Ap |
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| 588 | 27 | 51.9 | 642 | 11 | US-11-087-099-9818 | Sequence 9818, Ap |
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| 591 | 27 | 51.9 | 672 | 8 | US-10-370-959-154 | Sequence 154, App |
| 592 | 27 | 51.9 | 683 | 9 | US-10-330-773-346 | Sequence 346, App |
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| 597 | 27 | 51.9 | 688 | 11 | US-11-040-218-27 | Sequence 27, Appl |
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| 599 | 27 | 51.9 | 699 | 11 | US-11-152-601-21 | Sequence 21, Appl |
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| 601 | 27 | 51.9 | 701 | 11 | US-11-235-621-1 | Sequence 1, Appli |
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| 603 | 27 | 51.9 | 706 | 11 | US-11-087-099-5254 | Sequence 5254, Ap |
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| 605 | 27 | 51.9 | 714 | 11 | US-11-096-568A-27921 | Sequence 27921, A |
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| 607 | 27 | 51.9 | 739 | 11 | US-11-235-621-13 | Sequence 13, Appl |
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| 610 | 27 | 51.9 | 784 | 11 | US-11-147-109-4 | Sequence 4, Appli |
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| 615 | 27 | 51.9 | 917 | 11 | US-11-188-298-1393 | Sequence 1393, Ap |
| 616 | 27 | 51.9 | 919 | 11 | US-11-188-298-10380 | Sequence 10380, A |
| 617 | 27 | 51.9 | 931 | 8 | US-10-505-928-91 | Sequence 91, Appl |
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| 622 | 27 | 51.9 | 1115 | 9 | US-10-204-639-47 | Sequence 47, Appl |
| 623 | 27 | 51.9 | 1216 | 9 | US-10-873-528-12 | Sequence 12, Appl |
| 624 | 27 | 51.9 | 1231 | 11 | US-11-096-568A-28514 | Sequence 28514, A |
| 625 | 27 | 51.9 | 1253 | 11 | US-11-096-568A-28513 | Sequence 28513, A |
| 626 | 27 | 51.9 | 1388 | 9 | US-10-821-234-1143 | Sequence 1143, Ap |
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| 630 | 27 | 51.9 | 1663 | 8 | US-10-505-928-227 | Sequence 227, App |
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| 632 | 27 | 51.9 | 1938 | 9 | US-10-995-561-662 | Sequence 662, App |
| 633 | 27 | 51.9 | 1954 | 9 | US-10-995-561-660 | Sequence 660, App |
| 634 | 27 | 51.9 | 1972 | 9 | US-10-995-561-664 | Sequence 664, App |
| 635 | 27 | 51.9 | 1972 | 9 | US-10-995-561-666 | Sequence 666, App |
| 636 | 27 | 51.9 | 1992 | 11 | US-11-013-759-3 | Sequence 3, Appli |
| 637 | 27 | 51.9 | 1992 | 11 | US-11-013-759-13 | Sequence 13, Appl |
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| 639 | 27 | 51.9 | 2047 | 11 | US-11-013-759-7 | Sequence 7, Appli |
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| 651 | 26 | 50.0 | 8 | 11 | US-11-123-290-14 | Sequence 14, Appl |
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| 653 | 26 | 50.0 | 8 | 11 | US-11-123-290-19 | Sequence 19, Appl |
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| 655 | 26 | 50.0 | 8 | 11 | US-11-123-290-47 | Sequence 47, Appl |
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| 658 | 26 | 50.0 | 8 | 11 | US-11-123-290-51 | Sequence 51, Appl |
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| 663 | 26 | 50.0 | 9 | 11 | US-11-123-290-35 | Sequence 35, Appl |
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| 665 | 26 | 50.0 | 9 | 11 | US-11-123-290-72 | Sequence 72, Appl |
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| 667 | 26 | 50.0 | 10 | 11 | US-11-123-290-36 | Sequence 36, Appl |
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| 669 | 26 | 50.0 | 10 | 11 | US-11-123-290-73 | Sequence 73, Appl |
| 670 | 26 | 50.0 | 11 | 11 | US-11-123-290-37 | Sequence 37, Appl |
| 671 | 26 | 50.0 | 11 | 11 | US-11-123-290-74 | Sequence 74, Appl |
| 672 | 26 | 50.0 | 12 | 11 | US-11-123-290-38 | Sequence 38, Appl |
| 673 | 26 | 50.0 | 12 | 11 | US-11-123-290-75 | Sequence 75, Appl |
| 674 | 26 | 50.0 | 13 | 9 | US-10-467-657-478 | Sequence 478, App |
| 675 | 26 | 50.0 | 13 | 11 | US-11-123-290-42 | Sequence 42, Appl |
| 676 | 26 | 50.0 | 13 | 11 | US-11-123-290-79 | Sequence 79, Appl |
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| 681 | 26 | 50.0 | 43 | 11 | US-11-129-741-2011 | Sequence 2011, Ap |
| 682 | 26 | 50.0 | 46 | 9 | US-10-895-064-2009 | Sequence 2009, Ap |
| 683 | 26 | 50.0 | 46 | 11 | US-11-129-741-2009 | Sequence 2009, Ap |
| 684 | 26 | 50.0 | 67 | 11 | US-11-087-099-2453 | Sequence 2453, Ap |
| 685 | 26 | 50.0 | 71 | 9 | US-10-506-454-441 | Sequence 441, App |
| 686 | 26 | 50.0 | 73 | 11 | US-11-079-463-7089 | Sequence 7089, Ap |
| 687 | 26 | 50.0 | 83 | 11 | US-11-096-568A-11425 | Sequence 11425, A |
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| 690 | 26 | 50.0 | 90 | 11 | US-11-087-099-7854 | Sequence 7854, Ap |
| 691 | 26 | 50.0 | 90 | 11 | US-11-096-568A-3337 | Sequence 3337, Ap |
| 692 | 26 | 50.0 | 108 | 11 | US-11-210-756-12 | Sequence 12, Appl |
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| 695 | 26 | 50.0 | 128 | 11 | US-11-188-298-12958 | Sequence 12958, A |
| 696 | 26 | 50.0 | 130 | 11 | US-11-072-512-2847 | Sequence 2847, Ap |
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| 698 | 26 | 50.0 | 148 | 11 | US-11-079-463-7345 | Sequence 7345, Ap |
| 699 | 26 | 50.0 | 152 | 11 | US-11-156-516-42 | Sequence 42, Appl |
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| 702 | 26 | 50.0 | 163 | 11 | US-11-087-099-3035 | Sequence 3035, Ap |
| 703 | 26 | 50.0 | 163 | 11 | US-11-188-298-13907 | Sequence 13907, A |
| 704 | 26 | 50.0 | 172 | 11 | US-11-156-516-45 | Sequence 45, Appl |
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| 706 | 26 | 50.0 | 182 | 11 | US-11-087-099-9919 | Sequence 9919, Ap |
| 707 | 26 | 50.0 | 188 | 11 | US-11-079-463-8327 | Sequence 8327, Ap |
| 708 | 26 | 50.0 | 188 | 11 | US-11-188-298-11423 | Sequence 11423, A |
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| 710 | 26 | 50.0 | 190 | 11 | US-11-188-298-15108 | Sequence 15108, A |
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| 713 | 26 | 50.0 | 193 | 11 | US-11-156-516-49 | Sequence 49, Appl |
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| 715 | 26 | 50.0 | 200 | 11 | US-11-096-568A-784 | Sequence 784, App |
| 716 | 26 | 50.0 | 201 | 11 | US-11-096-568A-783 | Sequence 783, App |
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| 720 | 26 | 50.0 | 212 | 11 | US-11-156-516-48 | Sequence 48, Appl |
| 721 | 26 | 50.0 | 212 | 11 | US-11-045-004-1914 | Sequence 1914, Ap |
| 722 | 26 | 50.0 | 216 | 11 | US-11-156-084-244 | Sequence 244, App |
| 723 | 26 | 50.0 | 216 | 11 | US-11-156-084-322 | Sequence 322, App |
| 724 | 26 | 50.0 | 223 | 11 | US-11-264-096-290 | Sequence 290, App |
| 725 | 26 | 50.0 | 223 | 11 | US-11-264-096-292 | Sequence 292, App |
| 726 | 26 | 50.0 | 226 | 11 | US-11-096-568A-782 | Sequence 782, App |
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| 730 | 26 | 50.0 | 233 | 11 | US-11-124-368A-203 | Sequence 203, App |
| 731 | 26 | 50.0 | 234 | 11 | US-11-156-516-44 | Sequence 44, Appl |
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| 734 | 26 | 50.0 | 245 | 11 | US-11-079-463-7019 | Sequence 7019, Ap |
| 735 | 26 | 50.0 | 251 | 9 | US-10-528-031-8 | Sequence 8, Appli |
| 736 | 26 | 50.0 | 251 | 11 | US-11-188-298-8041 | Sequence 8041, Ap |
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| 738 | 26 | 50.0 | 251 | 11 | US-11-045-004-1517 | Sequence 1517, Ap |
| 739 | 26 | 50.0 | 252 | 11 | US-11-188-298-4103 | Sequence 4103, Ap |
| 740 | 26 | 50.0 | 253 | 9 | US-10-491-468-19 | Sequence 19, Appl |
| 741 | 26 | 50.0 | 253 | 11 | US-11-156-516-50 | Sequence 50, Appl |
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| 744 | 26 | 50.0 | 254 | 11 | US-11-096-568A-33560 | Sequence 33560, A |
| 745 | 26 | 50.0 | 257 | 11 | US-11-096-568A-6223 | Sequence 6223, Ap |
| 746 | 26 | 50.0 | 263 | 11 | US-11-156-516-33 | Sequence 33, Appl |
| 747 | 26 | 50.0 | 267 | 11 | US-11-096-568A-32564 | Sequence 32564, A |
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| 750 | 26 | 50.0 | 271 | 9 | US-10-793-626-678 | Sequence 678, App |
| 751 | 26 | 50.0 | 273 | 11 | US-11-096-568A-19908 | Sequence 19908, A |
| 752 | 26 | 50.0 | 273 | 11 | US-11-188-298-17019 | Sequence 17019, A |
| 753 | 26 | 50.0 | 278 | 9 | US-10-649-591-20 | Sequence 20, Appl |
| 754 | 26 | 50.0 | 280 | 11 | US-11-096-568A-33559 | Sequence 33559, A |
| 755 | 26 | 50.0 | 282 | 11 | US-11-188-298-10545 | Sequence 10545, A |
| 756 | 26 | 50.0 | 284 | 11 | US-11-079-463-7292 | Sequence 7292, Ap |
| 757 | 26 | 50.0 | 286 | 9 | US-10-485-517-155 | Sequence 155, App |
| 758 | 26 | 50.0 | 289 | 11 | US-11-096-568A-33558 | Sequence 33558, A |
| 759 | 26 | 50.0 | 290 | 11 | US-11-087-099-2472 | Sequence 2472, Ap |
| 760 | 26 | 50.0 | 291 | 11 | US-11-188-298-9305 | Sequence 9305, Ap |
| 761 | 26 | 50.0 | 293 | 11 | US-11-188-298-15653 | Sequence 15653, A |
| 762 | 26 | 50.0 | 301 | 11 | US-11-079-463-6727 | Sequence 6727, Ap |
| 763 | 26 | 50.0 | 302 | 11 | US-11-072-512-2998 | Sequence 2998, Ap |
| 764 | 26 | 50.0 | 307 | 11 | US-11-072-512-2986 | Sequence 2986, Ap |
| 765 | 26 | 50.0 | 311 | 11 | US-11-124-368A-201 | Sequence 201, App |
| 766 | 26 | 50.0 | 311 | 11 | US-11-124-368A-206 | Sequence 206, App |
| 767 | 26 | 50.0 | 311 | 11 | US-11-156-084-276 | Sequence 276, App |
| 768 | 26 | 50.0 | 311 | 11 | US-11-096-568A-19907 | Sequence 19907, A |
| 769 | 26 | 50.0 | 313 | 11 | US-11-156-084-335 | Sequence 335, App |
| 770 | 26 | 50.0 | 313 | 11 | US-11-237-600-68 | Sequence 68, Appl |
| 771 | 26 | 50.0 | 313 | 11 | US-11-096-568A-2917 | Sequence 2917, Ap |
| 772 | 26 | 50.0 | 313 | 11 | US-11-096-568A-2920 | Sequence 2920, Ap |
| 773 | 26 | 50.0 | 316 | 11 | US-11-156-084-193 | Sequence 193, App |
| 774 | 26 | 50.0 | 316 | 11 | US-11-156-084-210 | Sequence 210, App |
| 775 | 26 | 50.0 | 316 | 11 | US-11-156-084-280 | Sequence 280, App |
| 776 | 26 | 50.0 | 316 | 11 | US-11-156-084-287 | Sequence 287, App |
| 777 | 26 | 50.0 | 316 | 11 | US-11-072-512-2455 | Sequence 2455, Ap |
| 778 | 26 | 50.0 | 320 | 11 | US-11-096-568A-19906 | Sequence 19906, A |
| 779 | 26 | 50.0 | 322 | 11 | US-11-096-568A-3061 | Sequence 3061, Ap |
| 780 | 26 | 50.0 | 322 | 11 | US-11-096-568A-3817 | Sequence 3817, Ap |
| 781 | 26 | 50.0 | 322 | 11 | US-11-096-568A-6222 | Sequence 6222, Ap |
| 782 | 26 | 50.0 | 323 | 8 | US-10-511-937-2967 | Sequence 2967, Ap |
| 783 | 26 | 50.0 | 323 | 11 | US-11-124-368A-199 | Sequence 199, App |
| 784 | 26 | 50.0 | 323 | 11 | US-11-124-368A-205 | Sequence 205, App |
| 785 | 26 | 50.0 | 323 | 11 | US-11-188-298-16800 | Sequence 16800, A |
| 786 | 26 | 50.0 | 326 | 11 | US-11-096-568A-33337 | Sequence 33337, A |
| 787 | 26 | 50.0 | 328 | 11 | US-11-087-099-6596 | Sequence 6596, Ap |
| 788 | 26 | 50.0 | 329 | 9 | US-10-793-626-414 | Sequence 414, App |
| 789 | 26 | 50.0 | 330 | 11 | US-11-087-099-7121 | Sequence 7121, Ap |
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| 792 | 26 | 50.0 | 336 | 11 | US-11-188-298-7669 | Sequence 7669, Ap |
| 793 | 26 | 50.0 | 336 | 11 | US-11-188-298-17506 | Sequence 17506, A |
| 794 | 26 | 50.0 | 339 | 11 | US-11-096-568A-6942 | Sequence 6942, Ap |
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| 797 | 26 | 50.0 | 342 | 11 | US-11-096-568A-21155 | Sequence 21155, A |
| 798 | 26 | 50.0 | 343 | 11 | US-11-124-368A-202 | Sequence 202, App |
| 799 | 26 | 50.0 | 349 | 9 | US-10-515-419-2 | Sequence 2, Appli |
| 800 | 26 | 50.0 | 349 | 9 | US-10-515-547-6 | Sequence 6, Appli |
| 801 | 26 | 50.0 | 349 | 11 | US-11-096-568A-21154 | Sequence 21154, A |
| 802 | 26 | 50.0 | 352 | 9 | US-10-515-419-3 | Sequence 3, Appli |
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| 804 | 26 | 50.0 | 355 | 11 | US-11-124-368A-200 | Sequence 200, App |
| 805 | 26 | 50.0 | 355 | 11 | US-11-124-368A-204 | Sequence 204, App |
| 806 | 26 | 50.0 | 358 | 11 | US-11-096-568A-12780 | Sequence 12780, A |
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| 808 | 26 | 50.0 | 365 | 11 | US-11-096-568A-22440 | Sequence 22440, A |
| 809 | 26 | 50.0 | 366 | 9 | US-10-467-657-2544 | Sequence 2544, Ap |
| 810 | 26 | 50.0 | 367 | 11 | US-11-096-568A-3060 | Sequence 3060, Ap |
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| 812 | 26 | 50.0 | 369 | 11 | US-11-096-568A-3816 | Sequence 3816, Ap |
| 813 | 26 | 50.0 | 369 | 11 | US-11-096-568A-12778 | Sequence 12778, A |
| 814 | 26 | 50.0 | 371 | 11 | US-11-188-298-6449 | Sequence 6449, Ap |
| 815 | 26 | 50.0 | 372 | 11 | US-11-096-568A-3059 | Sequence 3059, Ap |
| 816 | 26 | 50.0 | 372 | 11 | US-11-096-568A-3062 | Sequence 3062, Ap |
| 817 | 26 | 50.0 | 374 | 11 | US-11-096-568A-3815 | Sequence 3815, Ap |
| 818 | 26 | 50.0 | 375 | 11 | US-11-045-004-700 | Sequence 700, App |
| 819 | 26 | 50.0 | 379 | 11 | US-11-096-568A-26197 | Sequence 26197, A |
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| 821 | 26 | 50.0 | 381 | 11 | US-11-096-568A-29594 | Sequence 29594, A |
| 822 | 26 | 50.0 | 383 | 9 | US-10-467-657-5602 | Sequence 5602, Ap |
| 823 | 26 | 50.0 | 383 | 11 | US-11-096-568A-29180 | Sequence 29180, A |
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| 829 | 26 | 50.0 | 398 | 11 | US-11-087-099-8396 | Sequence 8396, Ap |
| 830 | 26 | 50.0 | 398 | 11 | US-11-096-568A-22439 | Sequence 22439, A |
| 831 | 26 | 50.0 | 402 | 11 | US-11-096-568A-21988 | Sequence 21988, A |
| 832 | 26 | 50.0 | 407 | 11 | US-11-045-004-786 | Sequence 786, App |
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| 835 | 26 | 50.0 | 424 | 11 | US-11-096-568A-21987 | Sequence 21987, A |
| 836 | 26 | 50.0 | 428 | 11 | US-11-072-512-3675 | Sequence 3675, Ap |
| 837 | 26 | 50.0 | 428 | 11 | US-11-096-568A-11011 | Sequence 11011, A |
| 838 | 26 | 50.0 | 441 | 11 | US-11-096-568A-11010 | Sequence 11010, A |
| 839 | 26 | 50.0 | 443 | 9 | US-10-793-626-1598 | Sequence 1598, Ap |
| 840 | 26 | 50.0 | 447 | 11 | US-11-079-463-8913 | Sequence 8913, Ap |
| 841 | 26 | 50.0 | 447 | 11 | US-11-188-298-7951 | Sequence 7951, Ap |
| 842 | 26 | 50.0 | 451 | 9 | US-10-784-004-466 | Sequence 466, App |
| 843 | 26 | 50.0 | 451 | 9 | US-10-784-004-962 | Sequence 962, App |
| 844 | 26 | 50.0 | 451 | 11 | US-11-188-298-6556 | Sequence 6556, Ap |
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| 846 | 26 | 50.0 | 474 | 9 | US-10-763-712A-47 | Sequence 47, Appl |
| 847 | 26 | 50.0 | 474 | 11 | US-11-188-298-20836 | Sequence 20836, A |
| 848 | 26 | 50.0 | 477 | 11 | US-11-096-568A-11009 | Sequence 11009, A |
| 849 | 26 | 50.0 | 480 | 11 | US-11-096-568A-26196 | Sequence 26196, A |
| 850 | 26 | 50.0 | 483 | 11 | US-11-024-959-494 | Sequence 494, App |
| 851 | 26 | 50.0 | 487 | 9 | US-10-131-826A-528 | Sequence 528, App |
| 852 | 26 | 50.0 | 487 | 9 | US-10-973-115B-528 | Sequence 528, App |
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| 854 | 26 | 50.0 | 487 | 9 | US-10-218-784-204 | Sequence 204, App |
| 855 | 26 | 50.0 | 487 | 9 | US-10-219-061-204 | Sequence 204, App |
| 856 | 26 | 50.0 | 487 | 9 | US-10-219-062-204 | Sequence 204, App |
| 857 | 26 | 50.0 | 487 | 9 | US-10-219-064-204 | Sequence 204, App |
| 858 | 26 | 50.0 | 487 | 9 | US-10-233-134-204 | Sequence 204, App |
| 859 | 26 | 50.0 | 487 | 9 | US-10-137-873A-528 | Sequence 528, App |
| 860 | 26 | 50.0 | 487 | 9 | US-10-152-370-528 | Sequence 528, App |
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| 862 | 26 | 50.0 | 487 | 9 | US-10-784-004-1113 | Sequence 1113, Ap |
| 863 | 26 | 50.0 | 487 | 11 | US-11-290-153-528 | Sequence 528, App |
| 864 | 26 | 50.0 | 487 | 11 | US-11-288-493-16 | Sequence 16, Appl |
| 865 | 26 | 50.0 | 489 | 11 | US-11-188-298-4866 | Sequence 4866, Ap |
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| 868 | 26 | 50.0 | 500 | 11 | US-11-079-463-5773 | Sequence 5773, Ap |
| 869 | 26 | 50.0 | 502 | 11 | US-11-045-004-593 | Sequence 593, App |
| 870 | 26 | 50.0 | 512 | 11 | US-11-096-568A-29179 | Sequence 29179, A |
| 871 | 26 | 50.0 | 513 | 9 | US-10-485-517-233 | Sequence 233, App |
| 872 | 26 | 50.0 | 518 | 11 | US-11-072-512-3059 | Sequence 3059, Ap |
| 873 | 26 | 50.0 | 522 | 11 | US-11-079-463-5994 | Sequence 5994, Ap |
| 874 | 26 | 50.0 | 524 | 11 | US-11-087-099-460 | Sequence 460, App |
| 875 | 26 | 50.0 | 526 | 9 | US-10-606-302-5 | Sequence 5, Appli |
| 876 | 26 | 50.0 | 526 | 9 | US-10-606-302-7 | Sequence 7, Appli |
| 877 | 26 | 50.0 | 527 | 11 | US-11-188-298-15807 | Sequence 15807, A |
| 878 | 26 | 50.0 | 528 | 9 | US-10-864-758-7 | Sequence 7, Appli |
| 879 | 26 | 50.0 | 529 | 8 | US-10-505-928-815 | Sequence 815, App |
| 880 | 26 | 50.0 | 532 | 11 | US-11-188-298-7161 | Sequence 7161, Ap |
| 881 | 26 | 50.0 | 538 | 11 | US-11-188-298-12268 | Sequence 12268, A |
| 882 | 26 | 50.0 | 545 | 11 | US-11-096-568A-25213 | Sequence 25213, A |
| 883 | 26 | 50.0 | 545 | 11 | US-11-188-298-5522 | Sequence 5522, Ap |
| 884 | 26 | 50.0 | 550 | 11 | US-11-079-463-6201 | Sequence 6201, Ap |
| 885 | 26 | 50.0 | 551 | 11 | US-11-087-099-395 | Sequence 395, App |
| 886 | 26 | 50.0 | 555 | 11 | US-11-188-298-3933 | Sequence 3933, Ap |
| 887 | 26 | 50.0 | 555 | 11 | US-11-188-298-21317 | Sequence 21317, A |
| 888 | 26 | 50.0 | 556 | 11 | US-11-154-227-98 | Sequence 98, Appl |
| 889 | 26 | 50.0 | 556 | 11 | US-11-188-298-1509 | Sequence 1509, Ap |
| 890 | 26 | 50.0 | 556 | 11 | US-11-188-298-13437 | Sequence 13437, A |
| 891 | 26 | 50.0 | 557 | 11 | US-11-188-298-9391 | Sequence 9391, Ap |
| 892 | 26 | 50.0 | 557 | 11 | US-11-188-298-13930 | Sequence 13930, A |
| 893 | 26 | 50.0 | 561 | 11 | US-11-072-512-2805 | Sequence 2805, Ap |
| 894 | 26 | 50.0 | 566 | 11 | US-11-188-298-6803 | Sequence 6803, Ap |
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| 896 | 26 | 50.0 | 574 | 9 | US-10-524-647-132 | Sequence 132, App |
| 897 | 26 | 50.0 | 574 | 9 | US-10-524-972-120 | Sequence 120, App |
| 898 | 26 | 50.0 | 574 | 11 | US-11-096-568A-22229 | Sequence 22229, A |
| 899 | 26 | 50.0 | 576 | 11 | US-11-079-463-10199 | Sequence 10199, A |
| 900 | 26 | 50.0 | 578 | 11 | US-11-096-568A-33136 | Sequence 33136, A |
| 901 | 26 | 50.0 | 584 | 11 | US-11-079-463-6688 | Sequence 6688, Ap |
| 902 | 26 | 50.0 | 586 | 11 | US-11-072-512-3485 | Sequence 3485, Ap |
| 903 | 26 | 50.0 | 586 | 11 | US-11-096-568A-22228 | Sequence 22228, A |
| 904 | 26 | 50.0 | 587 | 11 | US-11-188-298-1430 | Sequence 1430, Ap |
| 905 | 26 | 50.0 | 591 | 9 | US-10-467-657-718 | Sequence 718, App |
| 906 | 26 | 50.0 | 592 | 11 | US-11-072-512-3366 | Sequence 3366, Ap |
| 907 | 26 | 50.0 | 608 | 11 | US-11-072-512-3337 | Sequence 3337, Ap |
| 908 | 26 | 50.0 | 615 | 11 | US-11-188-298-1099 | Sequence 1099, Ap |
| 909 | 26 | 50.0 | 618 | 9 | US-10-523-912-4 | Sequence 4, Appli |
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| 911 | 26 | 50.0 | 633 | 11 | US-11-188-298-2647 | Sequence 2647, Ap |
| 912 | 26 | 50.0 | 636 | 11 | US-11-072-512-2449 | Sequence 2449, Ap |
| 913 | 26 | 50.0 | 637 | 11 | US-11-188-298-2792 | Sequence 2792, Ap |
| 914 | 26 | 50.0 | 638 | 9 | US-10-995-561-1025 | Sequence 1025, Ap |
| 915 | 26 | 50.0 | 639 | 11 | US-11-079-463-8581 | Sequence 8581, Ap |
| 916 | 26 | 50.0 | 643 | 11 | US-11-072-512-2241 | Sequence 2241, Ap |
| 917 | 26 | 50.0 | 668 | 11 | US-11-113-424-12 | Sequence 12, Appl |
| 918 | 26 | 50.0 | 681 | 9 | US-10-533-066-5 | Sequence 5, Appli |
| 919 | 26 | 50.0 | 689 | 11 | US-11-040-218-3 | Sequence 3, Appli |
| 920 | 26 | 50.0 | 689 | 11 | US-11-040-218-29 | Sequence 29, Appl |
| 921 | 26 | 50.0 | 689 | 11 | US-11-040-218-31 | Sequence 31, Appl |
| 922 | 26 | 50.0 | 708 | 8 | US-10-505-928-416 | Sequence 416, App |
| 923 | 26 | 50.0 | 747 | 9 | US-10-501-035-224 | Sequence 224, App |
| 924 | 26 | 50.0 | 750 | 11 | US-11-072-512-2453 | Sequence 2453, Ap |
| 925 | 26 | 50.0 | 781 | 11 | US-11-072-512-2937 | Sequence 2937, Ap |
| 926 | 26 | 50.0 | 788 | 8 | US-10-485-346-2 | Sequence 2, Appli |
| 927 | 26 | 50.0 | 788 | 11 | US-11-079-463-8103 | Sequence 8103, Ap |
| 928 | 26 | 50.0 | 799 | 11 | US-11-072-512-2929 | Sequence 2929, Ap |
| 929 | 26 | 50.0 | 810 | 11 | US-11-188-298-6945 | Sequence 6945, Ap |
| 930 | 26 | 50.0 | 812 | 11 | US-11-188-298-16885 | Sequence 16885, A |
| 931 | 26 | 50.0 | 816 | 9 | US-10-784-004-467 | Sequence 467, App |
| 932 | 26 | 50.0 | 820 | 11 | US-11-147-047-31 | Sequence 31, Appl |
| 933 | 26 | 50.0 | 828 | 9 | US-10-784-004-786 | Sequence 786, App |
| 934 | 26 | 50.0 | 831 | 11 | US-11-098-686-10875 | Sequence 10875, A |
| 935 | 26 | 50.0 | 833 | 9 | US-10-467-657-3876 | Sequence 3876, Ap |
| 936 | 26 | 50.0 | 855 | 11 | US-11-188-298-17534 | Sequence 17534, A |
| 937 | 26 | 50.0 | 857 | 11 | US-11-188-298-2070 | Sequence 2070, Ap |
| 938 | 26 | 50.0 | 867 | 9 | US-10-131-826A-20 | Sequence 20, Appl |
| 939 | 26 | 50.0 | 867 | 9 | US-10-973-115B-20 | Sequence 20, Appl |
| 940 | 26 | 50.0 | 867 | 9 | US-10-137-873A-20 | Sequence 20, Appl |
| 941 | 26 | 50.0 | 867 | 9 | US-10-152-370-20 | Sequence 20, Appl |
| 942 | 26 | 50.0 | 867 | 11 | US-11-290-153-20 | Sequence 20, Appl |
| 943 | 26 | 50.0 | 869 | 11 | US-11-188-298-20296 | Sequence 20296, A |
| 944 | 26 | 50.0 | 870 | 9 | US-10-933-025-6 | Sequence 6, Appli |
| 945 | 26 | 50.0 | 870 | 9 | US-10-933-025-15 | Sequence 15, Appl |
| 946 | 26 | 50.0 | 870 | 11 | US-11-219-360-6 | Sequence 6, Appli |
| 947 | 26 | 50.0 | 870 | 11 | US-11-219-360-15 | Sequence 15, Appl |
| 948 | 26 | 50.0 | 870 | 11 | US-11-264-096-649 | Sequence 649, App |
| 949 | 26 | 50.0 | 870 | 11 | US-11-264-096-650 | Sequence 650, App |
| 950 | 26 | 50.0 | 877 | 11 | US-11-074-176-322 | Sequence 322, App |
| 951 | 26 | 50.0 | 883 | 11 | US-11-074-176-88 | Sequence 88, Appl |
| 952 | 26 | 50.0 | 885 | 11 | US-11-188-298-13076 | Sequence 13076, A |
| 953 | 26 | 50.0 | 906 | 8 | US-10-505-928-426 | Sequence 426, App |
| 954 | 26 | 50.0 | 907 | 11 | US-11-045-004-1754 | Sequence 1754, Ap |
| 955 | 26 | 50.0 | 935 | 11 | US-11-124-368A-294 | Sequence 294, App |
| 956 | 26 | 50.0 | 943 | 11 | US-11-124-368A-293 | Sequence 293, App |
| 957 | 26 | 50.0 | 943 | 11 | US-11-124-368A-295 | Sequence 295, App |
| 958 | 26 | 50.0 | 971 | 11 | US-11-188-298-3624 | Sequence 3624, Ap |
| 959 | 26 | 50.0 | 980 | 9 | US-10-330-773-507 | Sequence 507, App |
| 960 | 26 | 50.0 | 995 | 9 | US-10-330-773-505 | Sequence 505, App |
| 961 | 26 | 50.0 | 1001 | 9 | US-10-330-773-510 | Sequence 510, App |
| 962 | 26 | 50.0 | 1009 | 9 | US-10-912-971-16 | Sequence 16, Appl |
| 963 | 26 | 50.0 | 1032 | 9 | US-10-467-657-3278 | Sequence 3278, Ap |
| 964 | 26 | 50.0 | 1051 | 9 | US-10-204-639-15 | Sequence 15, Appl |
| 965 | 26 | 50.0 | 1077 | 11 | US-11-072-512-2291 | Sequence 2291, Ap |
| 966 | 26 | 50.0 | 1098 | 11 | US-11-096-568A-30390 | Sequence 30390, A |
| 967 | 26 | 50.0 | 1126 | 11 | US-11-075-185-3 | Sequence 3, Appli |
| 968 | 26 | 50.0 | 1139 | 11 | US-11-096-568A-30389 | Sequence 30389, A |
| 969 | 26 | 50.0 | 1141 | 11 | US-11-096-568A-34321 | Sequence 34321, A |
| 970 | 26 | 50.0 | 1147 | 11 | US-11-096-568A-34320 | Sequence 34320, A |

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| 971 | 26 | 50.0 | 1153 | 11 | US-11-096-568A-30388 | Sequence 30388, A |
| 972 | 26 | 50.0 | 1160 | 9 | US-10-995-561-1019 | Sequence 1019, Ap |
| 973 | 26 | 50.0 | 1180 | 8 | US-10-505-928-177 | Sequence 177, App |
| 974 | 26 | 50.0 | 1186 | 11 | US-11-096-568A-33275 | Sequence 33275, A |
| 975 | 26 | 50.0 | 1202 | 11 | US-11-096-568A-33274 | Sequence 33274, A |
| 976 | 26 | 50.0 | 1218 | 11 | US-11-096-568A-33273 | Sequence 33273, A |
| 977 | 26 | 50.0 | 1272 | 9 | US-10-501-035-313 | Sequence 313, App |
| 978 | 26 | 50.0 | 1280 | 11 | US-11-045-578-4 | Sequence 4, Appli |
| 979 | 26 | 50.0 | 1302 | 9 | US-10-995-561-1024 | Sequence 1024, Ap |
| 980 | 26 | 50.0 | 1306 | 9 | US-10-995-561-1027 | Sequence 1027, Ap |
| 981 | 26 | 50.0 | 1336 | 10 | US-11-106-014-92 | Sequence 92, Appl |
| 982 | 26 | 50.0 | 1410 | 9 | US-10-821-234-1050 | Sequence 1050, Ap |
| 983 | 26 | 50.0 | 1440 | 11 | US-11-096-568A-28130 | Sequence 28130, A |
| 984 | 26 | 50.0 | 1441 | 11 | US-11-096-568A-28129 | Sequence 28129, A |
| 985 | 26 | 50.0 | 1490 | 11 | US-11-096-568A-28128 | Sequence 28128, A |
| 986 | 26 | 50.0 | 1510 | 11 | US-11-055-822-72 | Sequence 72, Appl |
| 987 | 26 | 50.0 | 1515 | 9 | US-10-915-002-292 | Sequence 292, App |
| 988 | 26 | 50.0 | 1530 | 11 | US-11-045-004-946 | Sequence 946, App |
| 989 | 26 | 50.0 | 1534 | 8 | US-10-505-928-40 | Sequence 40, Appl |
| 990 | 26 | 50.0 | 1612 | 11 | US-11-045-004-38 | Sequence 38, Appl |
| 991 | 26 | 50.0 | 1933 | 9 | US-10-523-912-2 | Sequence 2, Appli |
| 992 | 26 | 50.0 | 1992 | 11 | US-11-069-834-58 | Sequence 58, Appl |
| 993 | 26 | 50.0 | 1995 | 11 | US-11-069-834-60 | Sequence 60, Appl |
| 994 | 26 | 50.0 | 2000 | 11 | US-11-069-834-56 | Sequence 56, Appl |
| 995 | 26 | 50.0 | 2107 | 11 | US-11-285-818-8 | Sequence 8, Appli |
| 996 | 26 | 50.0 | 2202 | 8 | US-10-488-015-12 | Sequence 12, Appl |
| 997 | 26 | 50.0 | 2333 | 11 | US-11-096-281-13 | Sequence 13, Appl |
| 998 | 26 | 50.0 | 2871 | 8 | US-10-505-928-100 | Sequence 100, App |
| 999 | 26 | 50.0 | 2871 | 11 | US-11-124-367A-264 | Sequence 264, App |
| 1000 | 26 | 50.0 | 2923 | 11 | US-11-200-822-3 | Sequence 3, Appli |

ALIGNMENTS

```
RESULT 1
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-13

  Query Match             100.0%;  Score 52;  DB 9;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 0.0049;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        118 HLDKKQRFH 126


RESULT 2
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
;  APPLICANT: HealthBanks Biotech CO. LTD.
;  TITLE OF INVENTION: Fusion protein for inhibiting cervcal cancer
;  FILE REFERENCE: P7819/0613
;  CURRENT APPLICATION NUMBER: US/11/206,138
;  CURRENT FILING DATE:  2005-08-18
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-11-206-138-3

  Query Match             100.0%;  Score 52;  DB 11;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.0051;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        125 HLDKKQRFH 133


RESULT 3
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-1

  Query Match             100.0%;  Score 52;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.0084;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        118 HLDKKQRFH 126


RESULT 4
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
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;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-3

  Query Match             100.0%;  Score 52;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.0084;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        118 HLDKKQRFH 126


RESULT 5
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-5

  Query Match             100.0%;  Score 52;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.0084;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        118 HLDKKQRFH 126


RESULT 6
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-7

  Query Match             100.0%;  Score 52;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.0084;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        215 HLDKKQRFH 223


RESULT 7
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-9

  Query Match             100.0%;  Score 52;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.0084;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        215 HLDKKQRFH 223


RESULT 8
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-11

  Query Match             100.0%;  Score 52;  DB 9;  Length 248;
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  Best Local Similarity   100.0%;  Pred. No. 0.0084;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        215 HLDKKQRFH 223


RESULT 9
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
;  APPLICANT: PANG, XIAOWU
;  TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
;  TITLE OF INVENTION:  RECOMBINANT REPLICON
;  FILE REFERENCE: 116620-003
;  CURRENT APPLICATION NUMBER: US/11/192,923A
;  CURRENT FILING DATE:  2005-07-29
;  PRIOR APPLICATION NUMBER: CN 03115272.4
;  PRIOR FILING DATE: 2003-01-30
;  PRIOR APPLICATION NUMBER: CN 03115273.2
;  PRIOR FILING DATE: 2003-01-30
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
;   LENGTH: 256
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-11-192-923A-2

  Query Match             100.0%;  Score 52;  DB 11;  Length 256;
  Best Local Similarity   100.0%;  Pred. No. 0.0087;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||||||
Db        223 HLDKKQRFH 231


RESULT 10
US-10-530-253-16
; Sequence 16, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 31
US-10-530-253-16

  Query Match             92.3%;  Score 48;  DB 9;  Length 149;
  Best Local Similarity   88.9%;  Pred. No. 0.029;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |||||:|||
Db        118 HLDKKKRFH 126


RESULT 11
US-10-530-253-18
; Sequence 18, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 35
US-10-530-253-18

  Query Match             76.9%;  Score 40;  DB 9;  Length 149;
  Best Local Similarity   66.7%;  Pred. No. 1.1;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              ||::|:|||
Db        118 HLEEKKRFH 126


RESULT 12
US-10-530-253-23
; Sequence 23, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 23
;   LENGTH: 155
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 56
US-10-530-253-23

  Query Match             76.9%;  Score 40;  DB 9;  Length 155;
  Best Local Similarity   66.7%;  Pred. No. 1.1;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              | |:|:|||
Db        121 HCDRKRRFH 129


RESULT 13
US-10-530-253-15
; Sequence 15, Application US/10530253
; Publication No. US20060014926A1
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; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 18
US-10-530-253-15

  Query Match             75.0%;  Score 39;  DB 9;  Length 158;
  Best Local Similarity   66.7%;  Pred. No. 1.8;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              ||::|:|||
Db        120 HLNEKRRFH 128


RESULT 14
US-10-530-253-19
; Sequence 19, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 39
US-10-530-253-19

  Query Match             73.1%;  Score 38;  DB 9;  Length 158;
  Best Local Similarity   66.7%;  Pred. No. 2.8;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              ||: |:|||
Db        120 HLNSKRRFH 128


RESULT 15
US-10-530-253-20
; Sequence 20, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 45
US-10-530-253-20

  Query Match             67.3%;  Score 35;  DB 9;  Length 158;
  Best Local Similarity   66.7%;  Pred. No. 11;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              ||  |:|||
Db        120 HLKDKRRFH 128


RESULT 16
US-10-530-253-25
; Sequence 25, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 25
;   LENGTH: 160
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 59
US-10-530-253-25

  Query Match             67.3%;  Score 35;  DB 9;  Length 160;
  Best Local Similarity   55.6%;  Pred. No. 11;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |: :|:|||
Db        120 HITEKRRFH 128


RESULT 17
US-11-087-099-9638
; Sequence 9638, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 9638
;   LENGTH: 640
;   TYPE: PRT
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; ORGANISM: Cryphonectria parasitica
US-11-087-099-9638

Query Match 65.4%; Score 34; DB 11; Length 640;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 HLDKKQRF 8
|| |:|||
Db 383 HLQKEQRF 390

RESULT 18
US-10-530-253-17
; Sequence 17, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 33
US-10-530-253-17

Query Match 63.5%; Score 33; DB 9; Length 149;
Best Local Similarity 55.6%; Pred. No. 25;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 HLDKKQRFH 9
|:| :|||
Db 118 HVDLNKRFH 126

RESULT 19
US-10-530-253-24
; Sequence 24, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 24
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 58
US-10-530-253-24

Query Match 63.5%; Score 33; DB 9; Length 149;
Best Local Similarity 55.6%; Pred. No. 25;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 HLDKKQRFH 9
|:| :|||
Db 118 HVDLNKRFH 126

RESULT 20
US-10-530-253-21
; Sequence 21, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 21
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 51
US-10-530-253-21

Query Match 63.5%; Score 33; DB 9; Length 151;
Best Local Similarity 62.5%; Pred. No. 26;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LDKKQRFH 9
:|:|:|||
Db 119 VDEKKRFH 126

RESULT 21
US-10-530-253-39
; Sequence 39, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 39
; LENGTH: 152
; TYPE: PRT
; ORGANISM: Human papillomavirus
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(152)
; OTHER INFORMATION: where Xaa is any amino acid
US-10-530-253-39

Query Match 63.5%; Score 33; DB 9; Length 152;
Best Local Similarity 55.6%; Pred. No. 26;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

```
Qy          1 HLDKKQRFH 9
              | : | |||
Db        120 HXBXKXRFH 128


RESULT 22
US-11-096-568A-33639
; Sequence 33639, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 33639
;   LENGTH: 336
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(336)
;   OTHER INFORMATION: Ceres Seq. ID no. 13603684
US-11-096-568A-33639

  Query Match             63.5%;  Score 33;  DB 11;  Length 336;
  Best Local Similarity   85.7%;  Pred. No. 62;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQR 7
              ||:||||
Db          3 HLNKKQR 9


RESULT 23
US-11-096-568A-33638
; Sequence 33638, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 33638
;   LENGTH: 354
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(354)
;   OTHER INFORMATION: Ceres Seq. ID no. 13603683
US-11-096-568A-33638

  Query Match             63.5%;  Score 33;  DB 11;  Length 354;
  Best Local Similarity   85.7%;  Pred. No. 66;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQR 7
              ||:||||
Db         21 HLNKKQR 27


RESULT 24
US-11-301-602-1
; Sequence 1, Application US/11301602
; Publication No. US20060088535A1
;   GENERAL INFORMATION:
;       APPLICANT: Bartsch, Dusan
;                  Kandel, Eric R.
;                  Ghirardi, Mirella
;       TITLE OF INVENTION: A METHOD FOR ENHANCING LONG-TERM MEMORY IN A
;                           SUBJECT AND USES THEREOF
;       NUMBER OF SEQUENCES: 20
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: Cooper & Dunham LLP
;            STREET: 1185 Avenue of the Americas
;            CITY: New York
;            STATE: New York
;            COUNTRY: U.S.A.
;            ZIP: 10036
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.30
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/11/301,602
;            FILING DATE: 13-Dec-2005
;            CLASSIFICATION: 424
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: US/08/656,811
;            FILING DATE: 03 June, 1996
;       ATTORNEY/AGENT INFORMATION:
;            NAME: White, John P.
;            REGISTRATION NUMBER: 28,678
;            REFERENCE/DOCKET NUMBER: 50865/JPW/JML
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: 212-278-0400
;            TELEFAX: 212-391-0525
;   INFORMATION FOR SEQ ID NO: 1:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 379 amino acids
;            TYPE: amino acid
;            STRANDEDNESS: single
;            TOPOLOGY: linear
;       MOLECULE TYPE: peptide
;       SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-11-301-602-1

  Query Match             63.5%;  Score 33;  DB 10;  Length 379;
  Best Local Similarity   85.7%;  Pred. No. 71;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQR 7
              ||||| |
Db        305 HLDKKDR 311


RESULT 25
US-11-045-004-985
; Sequence 985, Application US/11045004
; Publication No. US20060078901A1
; GENERAL INFORMATION:
;  APPLICANT: BUCHRIESER, CARMEN
;  APPLICANT:  FRANGEUL, LIONEL
;  APPLICANT:  COUVE, ELISABETH
;  APPLICANT:  RUSNIOK, CHRISTOPHE
;  APPLICANT:  FSIHI, HAFIDA
;  APPLICANT:  DEHOUX, PIERRE
;  APPLICANT:  DUSSURGET, OLIVIER
;  APPLICANT:  CHETOUANI, FARID
;  APPLICANT:  NEDJARI, HAFED
;  APPLICANT:  GLASER, PHILIPPE
;  APPLICANT:  KUNST, FRANCK
;  APPLICANT:  COSSART, PASCALE
;  APPLICANT:  DANIELS, JUSTIN
;  APPLICANT:  GOEBEL, WERNER
;  APPLICANT:  KREFT, JURGEN
;  APPLICANT:  KUHN, MICHAEL
;  APPLICANT:  NG, EVA
```

```
;  APPLICANT:  VAZQUEZ-BOLAND, ANTONIO
;  APPLICANT:  DOMINGUEZ-BERNAL, GUSTAVO
;  APPLICANT:  GARRIDO-GARCIA, PATRICIA
;  APPLICANT:  TIERREZ-MARTINEZ, ALBERTO
;  APPLICANT:  AMEND, ALEXANDRA
;  APPLICANT:  CHAKRABORTY, TRINAD
;  APPLICANT:  DOMANN, EUGEN
;  APPLICANT:  HAIN, THORSTEN
;  APPLICANT:  BERCHE, PATRICK
;  APPLICANT:  CHARBIT, ALAIN
;  APPLICANT:  DURANT, LIONEL
;  APPLICANT:  PEREZ-DIAZ, JOSE-CLAUDIO
;  APPLICANT:  BAQUERO, FERNANDO
;  APPLICANT:  GARCIA DEL PORTILLO, FRANCISCO
;  APPLICANT:  GOMEZ-LOPEZ, NURIA
;  APPLICANT:  MADUENIO, ENCARNA
;  APPLICANT:  PABLOS, BETRIZ DE
;  APPLICANT:  WEHLAND, JURGEN
;  APPLICANT:  KARST, UWE
;  APPLICANT:  ENTIAN, KARL-DIETER
;  APPLICANT:  HAUF, JORG
;  APPLICANT:  ROSE, MATTHIAS
;  APPLICANT:  VOSS, HAMUT
;  TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
;  FILE REFERENCE: 05394.0018-02
;  CURRENT APPLICATION NUMBER: US/11/045,004
;  CURRENT FILING DATE:  2005-01-28
;  PRIOR APPLICATION NUMBER: 10/637,657
;  PRIOR FILING DATE: 2003-08-11
;  PRIOR APPLICATION NUMBER: 10/257,023
;  PRIOR FILING DATE: 2002-10-08
;  PRIOR APPLICATION NUMBER: PCT/FR01/01118
;  PRIOR FILING DATE: 2001-04-11
;  PRIOR APPLICATION NUMBER: FR 00/04,629
;  PRIOR FILING DATE: 2000-04-11
;  NUMBER OF SEQ ID NOS: 2854
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 985
;   LENGTH: 396
;   TYPE: PRT
;   ORGANISM: Listeria monocytogenes
US-11-045-004-985

  Query Match             63.5%;  Score 33;  DB 11;  Length 396;
  Best Local Similarity   71.4%;  Pred. No. 75;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 DKKQRFH 9
              :|||:||
Db        200 EKKQKFH 206


RESULT 26
US-10-467-657-338
; Sequence 338, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
;  APPLICANT: CHIRON SpA
;  APPLICANT: FONTANA Maria Rita
;  APPLICANT: PIZZA Mariagrazia
;  APPLICANT: MASIGNANI Vega
;  APPLICANT: MONACI Elisabetta
;  TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
;  FILE REFERENCE:
;  CURRENT APPLICATION NUMBER: US/10/467,657
;  CURRENT FILING DATE:  2003-08-11
;  PRIOR APPLICATION NUMBER: GB-0103424.8
;  PRIOR FILING DATE: 2001-02-12
;  NUMBER OF SEQ ID NOS: 9218
;  SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 338
;   LENGTH: 624
;   TYPE: PRT
;   ORGANISM: Neisseria gonorrhoeae
US-10-467-657-338

  Query Match             63.5%;  Score 33;  DB 9;  Length 624;
  Best Local Similarity   66.7%;  Pred. No. 1.2e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              | ||| |:|
Db        609 HSDKKIRWH 617


RESULT 27
US-11-072-512-2645
; Sequence 2645, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
;  APPLICANT: ISOGAI, TAKAO
;  APPLICANT:  SUGIYAMA, TOMOYASU
;  APPLICANT:  OTSUKI, TETSUJI
;  APPLICANT:  WAKAMATSU, AI
;  APPLICANT:  SATO, HIROYUKI
;  APPLICANT:  ISHII, SHIZUKO
;  APPLICANT:  YAMAMOTO, JUN-ICHI
;  APPLICANT:  ISONO, YUUKO
;  APPLICANT:  HIO, YURI
;  APPLICANT:  OTSUKA, KAORU
;  APPLICANT:  NAGAI, KEIICHI
;  APPLICANT:  IRIE, RYOTARO
;  APPLICANT:  TAMECHIKA, ICHIRO
;  APPLICANT:  SEKI, NAOHIKO
;  APPLICANT:  YOSHIKAWA, TSUTOMU
;  APPLICANT:  OTSUKA, MOTOYUKI
;  APPLICANT:  NAGAHARI, KENJI
;  APPLICANT:  MASUHO, YASUHIKO
;  TITLE OF INVENTION: Novel full length cDNA
;  FILE REFERENCE: 084335-0191
;  CURRENT APPLICATION NUMBER: US/11/072,512
;  CURRENT FILING DATE:  2005-03-07
;  PRIOR APPLICATION NUMBER: US 60/350,978
;  PRIOR FILING DATE: 2002-01-25
;  PRIOR APPLICATION NUMBER: JP 2001-379298
;  PRIOR FILING DATE: 2001-11-05
;  NUMBER OF SEQ ID NOS: 4096
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2645
;   LENGTH: 661
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-072-512-2645

  Query Match             63.5%;  Score 33;  DB 11;  Length 661;
  Best Local Similarity   66.7%;  Pred. No. 1.3e+02;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |  || |||
Db        261 HARKKYRFH 269


RESULT 28
US-11-065-695-20
; Sequence 20, Application US/11065695
; Publication No. US20060024688A1
; GENERAL INFORMATION:
;  APPLICANT: STONE, EDWIN
;  TITLE OF INVENTION: ALTERATIONS OF FIBULIN GENES IN MACULAR DEGENERATION
;  FILE REFERENCE: IOWA:058US
;  CURRENT APPLICATION NUMBER: US/11/065,695
;  CURRENT FILING DATE:  2005-02-24
;  PRIOR APPLICATION NUMBER: 60/547,216
;  PRIOR FILING DATE: 2004-02-24
;  NUMBER OF SEQ ID NOS: 22
```

```
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
;   LENGTH: 5636
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-065-695-20

  Query Match             63.5%;  Score 33;  DB 11;  Length 5636;
  Best Local Similarity   100.0%;  Pred. No. 1.4e+03;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQ 6
              ||||||
Db        199 HLDKKQ 204


RESULT 29
US-11-188-298-1035
; Sequence 1035, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 1035
;   LENGTH: 780
;   TYPE: PRT
;   ORGANISM: Panax ginseng
US-11-188-298-1035

  Query Match             62.5%;  Score 32.5;  DB 11;  Length 780;
  Best Local Similarity   60.0%;  Pred. No. 2e+02;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    1;  Gaps    1;

Qy          1 HLDK-KQRFH 9
              |:|| :|:||
Db         39 HIDKLRQQFH 48


RESULT 30
US-10-467-657-5192
; Sequence 5192, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
;  APPLICANT: CHIRON SpA
;  APPLICANT: FONTANA Maria Rita
;  APPLICANT: PIZZA Mariagrazia
;  APPLICANT: MASIGNANI Vega
;  APPLICANT: MONACI Elisabetta
;  TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
;  FILE REFERENCE:
;  CURRENT APPLICATION NUMBER: US/10/467,657
;  CURRENT FILING DATE:  2003-08-11
;  PRIOR APPLICATION NUMBER: GB-0103424.8
;  PRIOR FILING DATE: 2001-02-12
;  NUMBER OF SEQ ID NOS: 9218
;  SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 5192
;   LENGTH: 47
;   TYPE: PRT
;   ORGANISM: Neisseria gonorrhoeae
US-10-467-657-5192

  Query Match             61.5%;  Score 32;  DB 9;  Length 47;
  Best Local Similarity   55.6%;  Pred. No. 11;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
                | :|:| ||
Db         26 HREKQQSFH 34


RESULT 31
US-11-115-922-223
; Sequence 223, Application US/11115922
; Publication No. US20050267062A1
; GENERAL INFORMATION:
;  APPLICANT: Rebar, Edward
;  APPLICANT:  Jamieson, Andrew
;  APPLICANT:  Liu, Qiang
;  APPLICANT:  Liu, Pei-Qi
;  APPLICANT:  Wolffe, Alan
;  APPLICANT:  Eisenberg, Stephen P.
;  APPLICANT:  Jarvis, Eric
;  APPLICANT:  Sangamo BioSciences, Inc.
;  TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
;  TITLE OF INVENTION:  Finger Proteins
;  FILE REFERENCE: 019496-005830US
;  CURRENT APPLICATION NUMBER: US/11/115,922
;  CURRENT FILING DATE:  2005-04-26
;  PRIOR APPLICATION NUMBER: US/10/006,069
;  PRIOR FILING DATE: 2001-12-06
;  PRIOR APPLICATION NUMBER: US 09/733,604
;  PRIOR FILING DATE: 2000-12-07
;  PRIOR APPLICATION NUMBER: US 09/736,083
;  PRIOR FILING DATE: 2000-12-12
;  PRIOR APPLICATION NUMBER: US 09/846,033
;  PRIOR FILING DATE: 2001-04-30
;  NUMBER OF SEQ ID NOS: 252
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 223
;   LENGTH: 100
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Sp-i consensus sequence with leader sequence
US-11-115-922-223

  Query Match             61.5%;  Score 32;  DB 11;  Length 100;
  Best Local Similarity   66.7%;  Pred. No. 25;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              || | || |
Db         87 HLSKHQRTH 95


RESULT 32
US-11-225-686-15
; Sequence 15, Application US/11225686
; Publication No. US20060019349A1
; GENERAL INFORMATION:
;  APPLICANT: LIU, Qiang
;  TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
;  TITLE OF INVENTION:  TRIPLETS BY ZINC FINGERS
;  FILE REFERENCE: 8325-0011.20 / S11-US2
;  CURRENT APPLICATION NUMBER: US/11/225,686
;  CURRENT FILING DATE:  2005-09-12
;  PRIOR APPLICATION NUMBER: US/09/989,994
;  PRIOR FILING DATE: 2001-11-20
;  NUMBER OF SEQ ID NOS: 4085
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 15
;   LENGTH: 100
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Sp-1 consensus
;   OTHER INFORMATION: sequence
US-11-225-686-15
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```
  Query Match             61.5%;  Score 32;  DB 11;  Length 100;
  Best Local Similarity   66.7%;  Pred. No. 25;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              || | || |
Db         87 HLSKHQRTH 95


RESULT 33
US-11-202-009-15
; Sequence 15, Application US/11202009
; Publication No. US20060024726A1
; GENERAL INFORMATION:
;  APPLICANT: LIU, Qiang
;  TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
;  TITLE OF INVENTION:  TRIPLETS BY ZINC FINGERS
;  FILE REFERENCE: 8325-0011.20 / S11-US2
;  CURRENT APPLICATION NUMBER: US/11/202,009
;  CURRENT FILING DATE:  2005-08-11
;  PRIOR APPLICATION NUMBER: US/09/989,994
;  PRIOR FILING DATE: 2001-11-20
;  NUMBER OF SEQ ID NOS: 4085
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 15
;   LENGTH: 100
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Sp-1 consensus
;   OTHER INFORMATION: sequence
US-11-202-009-15

  Query Match             61.5%;  Score 32;  DB 11;  Length 100;
  Best Local Similarity   66.7%;  Pred. No. 25;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              || | || |
Db         87 HLSKHQRTH 95


RESULT 34
US-11-188-298-7503
; Sequence 7503, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 7503
;   LENGTH: 164
;   TYPE: PRT
;   ORGANISM: Sesamum indicum
US-11-188-298-7503

  Query Match             61.5%;  Score 32;  DB 11;  Length 164;
  Best Local Similarity   71.4%;  Pred. No. 44;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 DKKQRFH 9
              ||:|:||
Db         29 DKEQQFH 35


RESULT 35
US-11-264-096-2108
; Sequence 2108, Application US/11264096
; Publication No. US20060084794A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Albumin Fusion Proteins
;  FILE REFERENCE: PF546D1
;  CURRENT APPLICATION NUMBER: US/11/264,096
;  CURRENT FILING DATE:  2005-11-02
;  PRIOR APPLICATION NUMBER: 09/833,245
;  PRIOR FILING DATE: 2001-04-12
;  PRIOR APPLICATION NUMBER: 60/229, 358
;  PRIOR FILING DATE: 2000-04-12
;  PRIOR APPLICATION NUMBER: 60/256, 931
;  PRIOR FILING DATE: 2000-12-21
;  PRIOR APPLICATION NUMBER: 60/199, 384
;  PRIOR FILING DATE: 2000-04-25
;  NUMBER OF SEQ ID NOS: 2267
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2108
;   LENGTH: 404
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (41)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (77)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (96)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (98)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (108)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (122)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (124)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (126)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (175)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (192)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (210)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (236)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (239)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
```

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;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (309)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (335)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (389)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-11-264-096-2108

  Query Match             61.5%;  Score 32;  DB 11;  Length 404;
  Best Local Similarity   66.7%;  Pred. No. 1.2e+02;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |  ||  |||
Db        261 HSRKKYRFH 269


RESULT 36
US-11-188-298-11114
; Sequence 11114, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 11114
;   LENGTH: 438
;   TYPE: PRT
;   ORGANISM: Lactobacillus plantarum WCFS1
US-11-188-298-11114

  Query Match             61.5%;  Score 32;  DB 11;  Length 438;
  Best Local Similarity   85.7%;  Pred. No. 1.3e+02;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 LDKKQRF 8
              |||:|||
Db        431 LDKQQRF 437


RESULT 37
US-11-188-298-19084
; Sequence 19084, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 19084
;   LENGTH: 499
;   TYPE: PRT
;   ORGANISM: Lotus japonicus
US-11-188-298-19084

  Query Match             61.5%;  Score 32;  DB 11;  Length 499;
  Best Local Similarity   85.7%;  Pred. No. 1.5e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQR 7
              | |||||
Db        262 HRDKKQR 268


RESULT 38
US-10-510-386-20
; Sequence 20, Application US/10510386
; Publication No. US20050244922A1
; GENERAL INFORMATION:
;  APPLICANT: Andersen, Jens Tonne
;  APPLICANT:  Clausen, Ib Groth
;  APPLICANT:  Jorgensen, Steen Troels
;  APPLICANT:  Olsen, Peter Bjarke
;  APPLICANT:  Rasmussen, Michael Dolberg
;  TITLE OF INVENTION: Improved Bacillus Host Cell
;  FILE REFERENCE: 10294.204-US
;  CURRENT APPLICATION NUMBER: US/10/510,386
;  CURRENT FILING DATE:  2004-10-04
;  NUMBER OF SEQ ID NOS: 248
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 20
;   LENGTH: 585
;   TYPE: PRT
;   ORGANISM: Bacillus licheniformis
US-10-510-386-20

  Query Match             61.5%;  Score 32;  DB 9;  Length 585;
  Best Local Similarity   85.7%;  Pred. No. 1.8e+02;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQR 7
              :||||||
Db        364 YLDKKQR 370


RESULT 39
US-10-510-386-38
; Sequence 38, Application US/10510386
; Publication No. US20050244922A1
; GENERAL INFORMATION:
;  APPLICANT: Andersen, Jens Tonne
;  APPLICANT:  Clausen, Ib Groth
;  APPLICANT:  Jorgensen, Steen Troels
;  APPLICANT:  Olsen, Peter Bjarke
;  APPLICANT:  Rasmussen, Michael Dolberg
;  TITLE OF INVENTION: Improved Bacillus Host Cell
;  FILE REFERENCE: 10294.204-US
;  CURRENT APPLICATION NUMBER: US/10/510,386
;  CURRENT FILING DATE:  2004-10-04
;  NUMBER OF SEQ ID NOS: 248
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 38
;   LENGTH: 594
;   TYPE: PRT
;   ORGANISM: Bacillus licheniformis
US-10-510-386-38

  Query Match             61.5%;  Score 32;  DB 9;  Length 594;
  Best Local Similarity   85.7%;  Pred. No. 1.8e+02;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HLDKKQR 7
              :||||||
Db        369 YLDKKQR 375


RESULT 40
US-11-072-512-2596
; Sequence 2596, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
```

; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHIKO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2596
; LENGTH: 611
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-2596

Query Match 61.5%; Score 32; DB 11; Length 611;
Best Local Similarity 66.7%; Pred. No. 1.9e+02;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 HLDKKQRFH 9
| || |||
Db 277 HSRKKYRFH 285

RESULT 41
US-11-024-959-411
; Sequence 411, Application US/11024959
; Publication No. US20060010516A1
; GENERAL INFORMATION:
; APPLICANT: FORSTER, RICHARD L.
; APPLICANT: CONNETT, MARIE B.
; APPLICANT: EMERSON, SARAH JANE
; APPLICANT: GRIGOR, MURRAY ROBERT
; APPLICANT: HIGGINS, COLLEEN M.
; APPLICANT: LUND, STEVEN TROY
; APPLICANT: MAGUSIN, ANDREAS
; APPLICANT: KODRZYCKI, BOB
; TITLE OF INVENTION: CELL CYCLE GENES AND RELATED METHODS
; FILE REFERENCE: 044463-0360
; CURRENT APPLICATION NUMBER: US/11/024,959
; CURRENT FILING DATE: 2004-12-30
; PRIOR APPLICATION NUMBER: 60/533,036
; PRIOR FILING DATE: 2003-12-30
; NUMBER OF SEQ ID NOS: 782
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 411
; LENGTH: 644
; TYPE: PRT
; ORGANISM: Pinus radiata
US-11-024-959-411

Query Match 61.5%; Score 32; DB 11; Length 644;
Best Local Similarity 75.0%; Pred. No. 2e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 HLDKKQRF 8
||| | ||
Db 389 HLDGKMRF 396

RESULT 42
US-11-096-568A-31532
; Sequence 31532, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 31532
; LENGTH: 1114
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1114)
; OTHER INFORMATION: Ceres Seq. ID no. 13587975
US-11-096-568A-31532

Query Match 61.5%; Score 32; DB 11; Length 1114;
Best Local Similarity 75.0%; Pred. No. 3.7e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 HLDKKQRF 8
||||| |
Db 753 HLDKKTSF 760

RESULT 43
US-11-096-568A-31531
; Sequence 31531, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 31531
; LENGTH: 1116
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1116)
; OTHER INFORMATION: Ceres Seq. ID no. 13587974
US-11-096-568A-31531

Query Match 61.5%; Score 32; DB 11; Length 1116;
Best Local Similarity 75.0%; Pred. No. 3.7e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 HLDKKQRF 8
||||| |
Db 755 HLDKKTSF 762

RESULT 44
US-11-096-568A-31530
; Sequence 31530, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:

```
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 31530
;   LENGTH: 1153
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(1153)
;   OTHER INFORMATION: Ceres Seq. ID no. 13587973
US-11-096-568A-31530

  Query Match             61.5%;  Score 32;  DB 11;  Length 1153;
  Best Local Similarity   75.0%;  Pred. No. 3.8e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRF 8
              |||||  |
Db        792 HLDKKTSF 799


RESULT 45
US-11-119-351-2
; Sequence 2, Application US/11119351
; Publication No. US20060010519A1
; GENERAL INFORMATION:
;  APPLICANT: Kadowaki, Koichi
;  APPLICANT:  Takahashi, Sakiko
;  APPLICANT:  Kawamukai, Makoto
;  APPLICANT:  Shimada, Hiroaki
;  TITLE OF INVENTION: Method for Producing Ubiquinone-10 in Plant
;  FILE REFERENCE: 59150-8034
;  CURRENT APPLICATION NUMBER: US/11/119,351
;  CURRENT FILING DATE:  2005-04-29
;  PRIOR APPLICATION NUMBER: JP 2004-136906
;  PRIOR FILING DATE: 2004-04-30
;  PRIOR APPLICATION NUMBER: JP 2005-000984
;  PRIOR FILING DATE: 2005-01-05
;  NUMBER OF SEQ ID NOS: 12
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
;   LENGTH: 112
;   TYPE: PRT
;   ORGANISM: Oryza sativa
US-11-119-351-2

  Query Match             59.6%;  Score 31;  DB 11;  Length 112;
  Best Local Similarity   71.4%;  Pred. No. 45;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HLDKKQR 7
              |:||| |
Db         45 HIDKKSR 51


RESULT 46
US-11-096-568A-21356
; Sequence 21356, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 21356
;   LENGTH: 184
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(184)
;   OTHER INFORMATION: Ceres Seq. ID no. 12403406
US-11-096-568A-21356

  Query Match             59.6%;  Score 31;  DB 11;  Length 184;
  Best Local Similarity   55.6%;  Pred. No. 79;
  Matches    5;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |: |  |||
Db        138 HVHKDSRFH 146


RESULT 47
US-11-096-568A-21355
; Sequence 21355, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 21355
;   LENGTH: 200
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(200)
;   OTHER INFORMATION: Ceres Seq. ID no. 12403405
US-11-096-568A-21355

  Query Match             59.6%;  Score 31;  DB 11;  Length 200;
  Best Local Similarity   55.6%;  Pred. No. 86;
  Matches    5;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |: |  |||
Db        154 HVHKDSRFH 162


RESULT 48
US-11-087-099-11084
; Sequence 11084, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 11084
;   LENGTH: 269
;   TYPE: PRT
;   ORGANISM: Triticum aestivum
US-11-087-099-11084

  Query Match             59.6%;  Score 31;  DB 11;  Length 269;
  Best Local Similarity   44.4%;  Pred. No. 1.2e+02;
  Matches    4;  Conservative    3;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 HLDKKQRFH 9
              |: |: :||
Db        217 HVKKRSKFH 225
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```
RESULT 49
US-10-506-454-539
; Sequence 539, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
;  APPLICANT: Slesarev, Alexi I
;  APPLICANT:  Mezhevaya, Katja V
;  APPLICANT:  Polushin, Nikolai N
;  APPLICANT:  Shcherbinina, Olga V
;  APPLICANT:  Shakhova, Vera V
;  APPLICANT:  Malykh, Andrei G
;  APPLICANT:  Kozyavkin, Sergei A
;  TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
;  TITLE OF INVENTION:  Methanopyrus Kandleri AV19 and Monophyly of Archael Methanogens
;  TITLE OF INVENTION:  and Methods of Use Thereof
;  FILE REFERENCE: FID001
;  CURRENT APPLICATION NUMBER: US/10/506,454
;  CURRENT FILING DATE:  2004-08-31
;  PRIOR APPLICATION NUMBER: PCT/US03/06664
;  PRIOR FILING DATE: 2003-03-04
;  PRIOR APPLICATION NUMBER: 60/361,742
;  PRIOR FILING DATE: 2002-03-04
;  NUMBER OF SEQ ID NOS: 1722
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 539
;   LENGTH: 275
;   TYPE: PRT
;   ORGANISM: Methanopyrus kandleri
US-10-506-454-539

  Query Match             59.6%;  Score 31;  DB 9;  Length 275;
  Best Local Similarity   71.4%;  Pred. No. 1.2e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 DKKQRFH 9
              |||:| |
Db        253 DKKERIH 259


RESULT 50
US-11-096-568A-422
; Sequence 422, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 422
;   LENGTH: 280
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(280)
;   OTHER INFORMATION: Ceres Seq. ID no. 16625650
US-11-096-568A-422

  Query Match             59.6%;  Score 31;  DB 11;  Length 280;
  Best Local Similarity   71.4%;  Pred. No. 1.3e+02;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 LDKKQRF 8
              :||||:|
Db         45 MDKKQKF 51


Search completed: May  5, 2006, 08:29:40
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Job time : 10.4 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 01:38:21 ; Search time 20.8 Seconds
(without alignments)
35.773 Million cell updates/sec

Title: US-08-170-344-56
Perfect score: 54
Sequence: 1 CMSCCRSSR 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/1/iaa/5_COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/6_COMB.pep:*
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4: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/RE_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
|---|---|---|---|---|---|---|
| 1 | 54 | 100.0 | 21 | 1 | US-08-934-915-167 | Sequence 167, App |
| 2 | 54 | 100.0 | 151 | 2 | US-09-701-080C-18 | Sequence 18, Appl |
| 3 | 54 | 100.0 | 158 | 2 | US-09-980-523A-2 | Sequence 2, Appli |
| 4 | 54 | 100.0 | 162 | 1 | US-08-316-239B-3 | Sequence 3, Appli |
| 5 | 54 | 100.0 | 162 | 1 | US-08-316-239B-4 | Sequence 4, Appli |
| 6 | 54 | 100.0 | 172 | 2 | US-08-860-165-12 | Sequence 12, Appl |
| 7 | 54 | 100.0 | 172 | 2 | US-09-359-382-12 | Sequence 12, Appl |
| 8 | 54 | 100.0 | 243 | 2 | US-09-462-993-1 | Sequence 1, Appli |
| 9 | 54 | 100.0 | 266 | 2 | US-08-860-165-10 | Sequence 10, Appl |
| 10 | 54 | 100.0 | 266 | 2 | US-09-359-382-10 | Sequence 10, Appl |
| 11 | 54 | 100.0 | 266 | 2 | US-09-367-309A-1 | Sequence 1, Appli |
| 12 | 54 | 100.0 | 273 | 2 | US-09-485-885-4 | Sequence 4, Appli |
| 13 | 54 | 100.0 | 292 | 2 | US-09-485-885-10 | Sequence 10, Appl |
| 14 | 54 | 100.0 | 371 | 2 | US-09-485-885-6 | Sequence 6, Appli |
| 15 | 54 | 100.0 | 390 | 2 | US-09-485-885-14 | Sequence 14, Appl |
| 16 | 42 | 77.8 | 154 | 2 | US-09-252-991A-25612 | Sequence 25612, A |
| 17 | 42 | 77.8 | 389 | 2 | US-09-252-991A-31590 | Sequence 31590, A |
| 18 | 39 | 72.2 | 141 | 2 | US-10-141-645-72 | Sequence 72, Appl |
| 19 | 39 | 72.2 | 141 | 2 | US-10-141-645-73 | Sequence 73, Appl |
| 20 | 39 | 72.2 | 208 | 2 | US-09-252-991A-25609 | Sequence 25609, A |
| 21 | 38 | 70.4 | 206 | 2 | US-09-252-991A-22768 | Sequence 22768, A |
| 22 | 38 | 70.4 | 449 | 2 | US-09-252-991A-23908 | Sequence 23908, A |
| 23 | 37 | 68.5 | 113 | 2 | US-09-252-991A-29076 | Sequence 29076, A |
| 24 | 37 | 68.5 | 598 | 2 | US-10-197-220-140 | Sequence 140, App |
| 25 | 36 | 66.7 | 17 | 2 | US-08-469-260A-425 | Sequence 425, App |
| 26 | 36 | 66.7 | 17 | 2 | US-08-488-446-425 | Sequence 425, App |
| 27 | 36 | 66.7 | 17 | 2 | US-08-467-344A-425 | Sequence 425, App |
| 28 | 36 | 66.7 | 17 | 2 | US-08-424-550B-425 | Sequence 425, App |
| 29 | 36 | 66.7 | 73 | 2 | US-09-270-767-35372 | Sequence 35372, A |
| 30 | 36 | 66.7 | 73 | 2 | US-09-270-767-50589 | Sequence 50589, A |
| 31 | 36 | 66.7 | 84 | 2 | US-09-198-452A-1276 | Sequence 1276, Ap |
| 32 | 36 | 66.7 | 329 | 2 | US-09-252-991A-18070 | Sequence 18070, A |
| 33 | 36 | 66.7 | 953 | 2 | US-09-252-991A-30039 | Sequence 30039, A |
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| 35 | 35 | 64.8 | 44 | 2 | US-09-270-767-54087 | Sequence 54087, A |
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| 38 | 35 | 64.8 | 167 | 2 | US-09-252-991A-20715 | Sequence 20715, A |
| 39 | 35 | 64.8 | 168 | 2 | US-09-252-991A-32502 | Sequence 32502, A |
| 40 | 35 | 64.8 | 187 | 2 | US-09-673-395A-148 | Sequence 148, App |
| 41 | 35 | 64.8 | 197 | 2 | US-09-252-991A-32518 | Sequence 32518, A |
| 42 | 35 | 64.8 | 210 | 2 | US-09-198-452A-641 | Sequence 641, App |
| 43 | 35 | 64.8 | 218 | 2 | US-09-252-991A-31933 | Sequence 31933, A |
| 44 | 35 | 64.8 | 245 | 2 | US-09-270-767-35096 | Sequence 35096, A |
| 45 | 35 | 64.8 | 245 | 2 | US-09-270-767-50313 | Sequence 50313, A |
| 46 | 35 | 64.8 | 248 | 2 | US-09-252-991A-29249 | Sequence 29249, A |
| 47 | 35 | 64.8 | 287 | 2 | US-09-949-016-9099 | Sequence 9099, Ap |
| 48 | 35 | 64.8 | 292 | 2 | US-09-439-313-532 | Sequence 532, App |
| 49 | 35 | 64.8 | 292 | 2 | US-09-636-215-532 | Sequence 532, App |
| 50 | 35 | 64.8 | 292 | 2 | US-09-685-166A-532 | Sequence 532, App |
| 51 | 35 | 64.8 | 292 | 2 | US-09-429-755-315 | Sequence 315, App |
| 52 | 35 | 64.8 | 292 | 2 | US-09-679-426-532 | Sequence 532, App |
| 53 | 35 | 64.8 | 292 | 2 | US-09-759-143-532 | Sequence 532, App |
| 54 | 35 | 64.8 | 292 | 2 | US-09-651-236-532 | Sequence 532, App |
| 55 | 35 | 64.8 | 292 | 2 | US-09-699-295-315 | Sequence 315, App |
| 56 | 35 | 64.8 | 292 | 2 | US-09-534-825A-315 | Sequence 315, App |
| 57 | 35 | 64.8 | 292 | 2 | US-09-657-279-532 | Sequence 532, App |
| 58 | 35 | 64.8 | 292 | 2 | US-10-012-896-532 | Sequence 532, App |
| 59 | 35 | 64.8 | 321 | 2 | US-09-039-609-4 | Sequence 4, Appli |
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| 63 | 35 | 64.8 | 373 | 2 | US-09-578-063-6 | Sequence 6, Appli |
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| 65 | 35 | 64.8 | 384 | 2 | US-09-429-755-304 | Sequence 304, App |
| 66 | 35 | 64.8 | 384 | 2 | US-09-699-295-304 | Sequence 304, App |
| 67 | 35 | 64.8 | 384 | 2 | US-09-699-295-326 | Sequence 326, App |
| 68 | 35 | 64.8 | 384 | 2 | US-09-534-825A-304 | Sequence 304, App |
| 69 | 35 | 64.8 | 399 | 2 | US-09-252-991A-25098 | Sequence 25098, A |
| 70 | 35 | 64.8 | 451 | 2 | US-09-578-063-43 | Sequence 43, Appl |
| 71 | 35 | 64.8 | 456 | 2 | US-09-578-063-5 | Sequence 5, Appli |
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| 73 | 35 | 64.8 | 460 | 2 | US-09-826-509-513 | Sequence 513, App |
| 74 | 35 | 64.8 | 470 | 2 | US-09-578-063-69 | Sequence 69, Appl |
| 75 | 35 | 64.8 | 475 | 2 | US-09-578-063-3 | Sequence 3, Appli |
| 76 | 35 | 64.8 | 479 | 1 | US-08-313-553-7 | Sequence 7, Appli |
| 77 | 35 | 64.8 | 479 | 2 | US-08-767-993-7 | Sequence 7, Appli |
| 78 | 35 | 64.8 | 529 | 2 | US-09-699-295-324 | Sequence 324, App |
| 79 | 35 | 64.8 | 656 | 2 | US-09-439-313-379 | Sequence 379, App |
| 80 | 35 | 64.8 | 656 | 2 | US-09-352-616A-379 | Sequence 379, App |
| 81 | 35 | 64.8 | 656 | 2 | US-09-289-198-305 | Sequence 305, App |
| 82 | 35 | 64.8 | 656 | 2 | US-09-636-215-379 | Sequence 379, App |
| 83 | 35 | 64.8 | 656 | 2 | US-09-685-166A-379 | Sequence 379, App |
| 84 | 35 | 64.8 | 656 | 2 | US-09-429-755-305 | Sequence 305, App |
| 85 | 35 | 64.8 | 656 | 2 | US-09-679-426-379 | Sequence 379, App |
| 86 | 35 | 64.8 | 656 | 2 | US-09-759-143-379 | Sequence 379, App |
| 87 | 35 | 64.8 | 656 | 2 | US-09-651-236-379 | Sequence 379, App |
| 88 | 35 | 64.8 | 656 | 2 | US-09-699-295-305 | Sequence 305, App |
| 89 | 35 | 64.8 | 656 | 2 | US-09-534-825A-305 | Sequence 305, App |
| 90 | 35 | 64.8 | 656 | 2 | US-09-657-279-379 | Sequence 379, App |
| 91 | 35 | 64.8 | 656 | 2 | US-10-012-896-379 | Sequence 379, App |
| 92 | 35 | 64.8 | 671 | 2 | US-09-439-313-380 | Sequence 380, App |
| 93 | 35 | 64.8 | 671 | 2 | US-09-352-616A-380 | Sequence 380, App |
| 94 | 35 | 64.8 | 671 | 2 | US-09-289-198-306 | Sequence 306, App |
| 95 | 35 | 64.8 | 671 | 2 | US-09-636-215-380 | Sequence 380, App |
| 96 | 35 | 64.8 | 671 | 2 | US-09-685-166A-380 | Sequence 380, App |
| 97 | 35 | 64.8 | 671 | 2 | US-09-429-755-306 | Sequence 306, App |
| 98 | 35 | 64.8 | 671 | 2 | US-09-679-426-380 | Sequence 380, App |
| 99 | 35 | 64.8 | 671 | 2 | US-09-759-143-380 | Sequence 380, App |
| 100 | 35 | 64.8 | 671 | 2 | US-09-651-236-380 | Sequence 380, App |

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| 102 | 35 | 64.8 | 671 | 2 | US-09-534-825A-306 | Sequence 306, App |
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| 104 | 35 | 64.8 | 671 | 2 | US-10-012-896-380 | Sequence 380, App |
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| 106 | 35 | 64.8 | 690 | 2 | US-08-935-433-2 | Sequence 2, Appli |
| 107 | 35 | 64.8 | 690 | 2 | US-09-553-132-2 | Sequence 2, Appli |
| 108 | 35 | 64.8 | 706 | 2 | US-09-949-016-11394 | Sequence 11394, A |
| 109 | 35 | 64.8 | 764 | 2 | US-09-949-016-9367 | Sequence 9367, Ap |
| 110 | 35 | 64.8 | 847 | 2 | US-10-162-012-2 | Sequence 2, Appli |
| 111 | 35 | 64.8 | 969 | 1 | US-08-284-941-2 | Sequence 2, Appli |
| 112 | 35 | 64.8 | 969 | 1 | US-08-447-642-2 | Sequence 2, Appli |
| 113 | 35 | 64.8 | 969 | 2 | US-09-236-503-2 | Sequence 2, Appli |
| 114 | 35 | 64.8 | 969 | 2 | US-09-961-403-6 | Sequence 6, Appli |
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| 116 | 35 | 64.8 | 969 | 4 | PCT-US93-02147A-2 | Sequence 2, Appli |
| 117 | 35 | 64.8 | 1719 | 2 | US-09-439-313-378 | Sequence 378, App |
| 118 | 35 | 64.8 | 1719 | 2 | US-09-352-616A-378 | Sequence 378, App |
| 119 | 35 | 64.8 | 1719 | 2 | US-09-636-215-378 | Sequence 378, App |
| 120 | 35 | 64.8 | 1719 | 2 | US-09-685-166A-378 | Sequence 378, App |
| 121 | 35 | 64.8 | 1719 | 2 | US-09-679-426-378 | Sequence 378, App |
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| 123 | 35 | 64.8 | 1719 | 2 | US-09-651-236-378 | Sequence 378, App |
| 124 | 35 | 64.8 | 1719 | 2 | US-09-657-279-378 | Sequence 378, App |
| 125 | 35 | 64.8 | 1719 | 2 | US-10-012-896-378 | Sequence 378, App |
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| 127 | 34 | 63.0 | 83 | 2 | US-09-252-991A-27113 | Sequence 27113, A |
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| 129 | 34 | 63.0 | 100 | 2 | US-09-270-767-39568 | Sequence 39568, A |
| 130 | 34 | 63.0 | 100 | 2 | US-09-270-767-54785 | Sequence 54785, A |
| 131 | 34 | 63.0 | 101 | 2 | US-09-270-767-35252 | Sequence 35252, A |
| 132 | 34 | 63.0 | 101 | 2 | US-09-270-767-50469 | Sequence 50469, A |
| 133 | 34 | 63.0 | 105 | 2 | US-09-950-933A-53 | Sequence 53, Appl |
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| 135 | 34 | 63.0 | 114 | 2 | US-09-188-930-288 | Sequence 288, App |
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| 137 | 34 | 63.0 | 114 | 2 | US-09-312-283C-288 | Sequence 288, App |
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| 140 | 34 | 63.0 | 120 | 2 | US-09-248-796A-16711 | Sequence 16711, A |
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| 142 | 34 | 63.0 | 143 | 2 | US-09-252-991A-18285 | Sequence 18285, A |
| 143 | 34 | 63.0 | 144 | 2 | US-09-949-016-11102 | Sequence 11102, A |
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| 150 | 34 | 63.0 | 191 | 2 | US-09-252-991A-23902 | Sequence 23902, A |
| 151 | 34 | 63.0 | 204 | 2 | US-09-252-991A-31049 | Sequence 31049, A |
| 152 | 34 | 63.0 | 217 | 2 | US-09-270-767-43695 | Sequence 43695, A |
| 153 | 34 | 63.0 | 220 | 2 | US-09-205-258-1129 | Sequence 1129, Ap |
| 154 | 34 | 63.0 | 220 | 2 | US-10-004-860-1129 | Sequence 1129, Ap |
| 155 | 34 | 63.0 | 233 | 2 | US-09-252-991A-18455 | Sequence 18455, A |
| 156 | 34 | 63.0 | 271 | 1 | US-08-117-083-14 | Sequence 14, Appl |
| 157 | 34 | 63.0 | 278 | 2 | US-09-485-885-21 | Sequence 21, Appl |
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| 167 | 34 | 63.0 | 654 | 2 | US-09-252-991A-20916 | Sequence 20916, A |
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| 169 | 34 | 63.0 | 1094 | 2 | US-10-160-719A-26 | Sequence 26, Appl |
| 170 | 34 | 63.0 | 1094 | 2 | US-10-160-719A-46 | Sequence 46, Appl |
| 171 | 34 | 63.0 | 1094 | 2 | US-10-209-059-18 | Sequence 18, Appl |
| 172 | 34 | 63.0 | 1165 | 2 | US-09-900-237-8 | Sequence 8, Appli |
| 173 | 34 | 63.0 | 1503 | 2 | US-08-976-255-14 | Sequence 14, Appl |
| 174 | 34 | 63.0 | 1698 | 2 | US-09-315-793-12 | Sequence 12, Appl |
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| 177 | 33 | 61.1 | 15 | 2 | US-09-910-009A-399 | Sequence 399, App |
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| 183 | 33 | 61.1 | 39 | 1 | US-08-469-660-40 | Sequence 40, Appl |
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| 187 | 33 | 61.1 | 39 | 4 | PCT-US95-06846A-40 | Sequence 40, Appl |
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| 200 | 33 | 61.1 | 96 | 2 | US-10-360-101-238 | Sequence 238, App |
| 201 | 33 | 61.1 | 101 | 2 | US-08-918-288-33 | Sequence 33, Appl |
| 202 | 33 | 61.1 | 101 | 2 | US-09-282-357-33 | Sequence 33, Appl |
| 203 | 33 | 61.1 | 107 | 2 | US-09-950-933A-67 | Sequence 67, Appl |
| 204 | 33 | 61.1 | 109 | 2 | US-09-059-625-40 | Sequence 40, Appl |
| 205 | 33 | 61.1 | 113 | 2 | US-10-104-047-2080 | Sequence 2080, Ap |
| 206 | 33 | 61.1 | 114 | 2 | US-09-513-999C-4186 | Sequence 4186, Ap |
| 207 | 33 | 61.1 | 116 | 1 | US-08-599-895-5 | Sequence 5, Appli |
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| 216 | 33 | 61.1 | 141 | 2 | US-09-825-294-215 | Sequence 215, App |
| 217 | 33 | 61.1 | 141 | 2 | US-09-970-966-215 | Sequence 215, App |
| 218 | 33 | 61.1 | 151 | 2 | US-09-059-625-32 | Sequence 32, Appl |
| 219 | 33 | 61.1 | 151 | 2 | US-09-059-625-43 | Sequence 43, Appl |
| 220 | 33 | 61.1 | 151 | 2 | US-09-059-625-46 | Sequence 46, Appl |
| 221 | 33 | 61.1 | 155 | 2 | US-09-059-625-62 | Sequence 62, Appl |
| 222 | 33 | 61.1 | 159 | 2 | US-09-059-625-64 | Sequence 64, Appl |
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| 224 | 33 | 61.1 | 165 | 2 | US-09-270-767-47882 | Sequence 47882, A |
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| 226 | 33 | 61.1 | 173 | 2 | US-09-252-991A-20624 | Sequence 20624, A |
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| 228 | 33 | 61.1 | 222 | 2 | US-08-918-288-30 | Sequence 30, Appl |
| 229 | 33 | 61.1 | 222 | 2 | US-09-282-357-30 | Sequence 30, Appl |
| 230 | 33 | 61.1 | 223 | 2 | US-08-918-288-27 | Sequence 27, Appl |
| 231 | 33 | 61.1 | 223 | 2 | US-09-282-357-27 | Sequence 27, Appl |
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| 233 | 33 | 61.1 | 223 | 2 | US-09-270-767-48799 | Sequence 48799, A |
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| 235 | 33 | 61.1 | 226 | 2 | US-09-059-625-78 | Sequence 78, Appl |
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| 242 | 33 | 61.1 | 234 | 2 | US-08-918-288-21 | Sequence 21, Appl |
| 243 | 33 | 61.1 | 234 | 2 | US-08-918-288-24 | Sequence 24, Appl |
| 244 | 33 | 61.1 | 234 | 2 | US-09-282-357-6 | Sequence 6, Appli |
| 245 | 33 | 61.1 | 234 | 2 | US-09-282-357-9 | Sequence 9, Appli |
| 246 | 33 | 61.1 | 234 | 2 | US-09-282-357-21 | Sequence 21, Appl |

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| 250 | 33 | 61.1 | 237 | 2 | US-09-282-357-15 | Sequence 15, Appl |
| 251 | 33 | 61.1 | 237 | 2 | US-09-282-357-18 | Sequence 18, Appl |
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| 253 | 33 | 61.1 | 256 | 2 | US-08-910-991-2 | Sequence 2, Appli |
| 254 | 33 | 61.1 | 256 | 2 | US-09-756-186-2 | Sequence 2, Appli |
| 255 | 33 | 61.1 | 265 | 2 | US-08-918-288-3 | Sequence 3, Appli |
| 256 | 33 | 61.1 | 265 | 2 | US-08-918-288-39 | Sequence 39, Appl |
| 257 | 33 | 61.1 | 265 | 2 | US-09-282-357-3 | Sequence 3, Appli |
| 258 | 33 | 61.1 | 265 | 2 | US-09-282-357-39 | Sequence 39, Appl |
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| 262 | 33 | 61.1 | 285 | 2 | US-08-910-991-6 | Sequence 6, Appli |
| 263 | 33 | 61.1 | 285 | 2 | US-09-756-186-6 | Sequence 6, Appli |
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| 265 | 33 | 61.1 | 297 | 2 | US-09-262-653A-6 | Sequence 6, Appli |
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| 270 | 33 | 61.1 | 774 | 2 | US-09-583-110-4703 | Sequence 4703, Ap |
| 271 | 33 | 61.1 | 780 | 2 | US-09-107-433-3973 | Sequence 3973, Ap |
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| 273 | 33 | 61.1 | 911 | 2 | US-09-356-952-6 | Sequence 6, Appli |
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| 276 | 33 | 61.1 | 1259 | 2 | US-09-187-049-13 | Sequence 13, Appl |
| 277 | 33 | 61.1 | 1308 | 1 | US-08-484-438-2 | Sequence 2, Appli |
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| 280 | 32 | 59.3 | 14 | 2 | US-09-910-009A-285 | Sequence 285, App |
| 281 | 32 | 59.3 | 14 | 2 | US-09-910-009A-286 | Sequence 286, App |
| 282 | 32 | 59.3 | 31 | 2 | US-09-894-882-360 | Sequence 360, App |
| 283 | 32 | 59.3 | 31 | 2 | US-09-894-882-363 | Sequence 363, App |
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| 548 | 31 | 57.4 | 276 | 2 | US-10-004-860-958 | Sequence 958, App |
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| 553 | 31 | 57.4 | 331 | 2 | US-09-252-991A-24140 | Sequence 24140, A |
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| 561 | 31 | 57.4 | 382 | 2 | US-09-252-991A-25095 | Sequence 25095, A |
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| 563 | 31 | 57.4 | 397 | 2 | US-09-252-991A-18709 | Sequence 18709, A |
| 564 | 31 | 57.4 | 399 | 2 | US-09-489-039A-9456 | Sequence 9456, Ap |
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| 569 | 31 | 57.4 | 493 | 2 | US-09-252-991A-16925 | Sequence 16925, A |
| 570 | 31 | 57.4 | 513 | 2 | US-09-252-991A-32774 | Sequence 32774, A |
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| 586 | 31 | 57.4 | 718 | 2 | US-08-473-089-44 | Sequence 44, Appl |
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| 637 | 30 | 55.6 | 61 | 1 | US-08-785-530-6 | Sequence 6, Appli |
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| 784 | 30 | 55.6 | 280 | 2 | US-09-903-190-178 | Sequence 178, App |
| 785 | 30 | 55.6 | 293 | 2 | US-09-999-833A-231 | Sequence 231, App |
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ALIGNMENTS

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RESULT 1
US-08-934-915-167
; Sequence 167, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  167:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  21 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-167

  Query Match           100.0%;  Score 54;  DB 1;  Length 21;
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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
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Db          6 CMSCCRSSR 14


RESULT 2
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
;  APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
;  TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 FC
;  TITLE OF INVENTION:  TRANSCRIPTIONAL REGULATION
;  FILE REFERENCE: N73477C GCW
;  CURRENT APPLICATION NUMBER: US/09/701,080C
;  CURRENT FILING DATE:  2001-02-27
;  PRIOR APPLICATION NUMBER: GB 9811303.8
;  PRIOR FILING DATE: 1998-05-26
;  PRIOR APPLICATION NUMBER: GB 9900157.0
;  PRIOR FILING DATE: 1999-01-05
;  NUMBER OF SEQ ID NOS: 36
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-09-701-080C-18

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Db        136 CMSCCRSSR 144


RESULT 3
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-2
```

```
  Query Match             100.0%;  Score 54;  DB 2;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 2.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        143 CMSCCRSSR 151


RESULT 4
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-3

  Query Match             100.0%;  Score 54;  DB 1;  Length 162;
  Best Local Similarity   100.0%;  Pred. No. 2.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        143 CMSCCRSSR 151


RESULT 5
US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-4

  Query Match             100.0%;  Score 54;  DB 1;  Length 162;
  Best Local Similarity   100.0%;  Pred. No. 2.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        143 CMSCCRSSR 151


RESULT 6
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

  Query Match             100.0%;  Score 54;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 2.2;
```

```
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db         81 CMSCCRSSR 89


RESULT 7
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-12

  Query Match            100.0%;  Score 54;  DB 2;  Length 172;
  Best Local Similarity  100.0%;  Pred. No. 2.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db         81 CMSCCRSSR 89


RESULT 8
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
;  APPLICANT:  KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION:  ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE:  017753-122
;  CURRENT APPLICATION NUMBER: US/09/462,993
;  CURRENT FILING DATE:  2000-04-17
;  PRIOR APPLICATION NUMBER:  PCT/FR98/01576
;  PRIOR FILING DATE:  1998-07-17
;  PRIOR APPLICATION NUMBER:  FR 97/09152
;  PRIOR FILING DATE:  1997-07-18
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

  Query Match            100.0%;  Score 54;  DB 2;  Length 243;
  Best Local Similarity  100.0%;  Pred. No. 2.9;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        166 CMSCCRSSR 174


RESULT 9
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

  Query Match            100.0%;  Score 54;  DB 2;  Length 266;
  Best Local Similarity  100.0%;  Pred. No. 3.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        143 CMSCCRSSR 151


RESULT 10
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-10

  Query Match            100.0%;  Score 54;  DB 2;  Length 266;
  Best Local Similarity  100.0%;  Pred. No. 3.1;
```

```
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        143 CMSCCRSSR 151


RESULT 11
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 54;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 3.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        143 CMSCCRSSR 151


RESULT 12
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-4

  Query Match             100.0%;  Score 54;  DB 2;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 3.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        249 CMSCCRSSR 257


RESULT 13
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-10

  Query Match             100.0%;  Score 54;  DB 2;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 3.4;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        268 CMSCCRSSR 276


RESULT 14
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-6

  Query Match             100.0%;  Score 54;  DB 2;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 4;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        249 CMSCCRSSR 257


RESULT 15
US-09-485-885-14
```

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; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-14

  Query Match             100.0%;  Score 54;  DB 2;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 4.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        268 CMSCCRSSR 276


RESULT 16
US-09-252-991A-25612
; Sequence 25612, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 25612
;   LENGTH: 154
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-25612

  Query Match             77.8%;  Score 42;  DB 2;  Length 154;
  Best Local Similarity   66.7%;  Pred. No. 69;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              | :||||:|
Db         86 CCACCRSAR 94


RESULT 17
US-09-252-991A-31590
; Sequence 31590, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 31590
;   LENGTH: 389
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-31590

  Query Match             77.8%;  Score 42;  DB 2;  Length 389;
  Best Local Similarity   77.8%;  Pred. No. 1.4e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              | |||| ||
Db        169 CTSCCRLSR 177


RESULT 18
US-10-141-645-72
; Sequence 72, Application US/10141645
; Patent No. 6713078
; GENERAL INFORMATION:
;  APPLICANT: Robert Lehrer
;  APPLICANT:  Alan Waring
;  APPLICANT:  Alexander Cole
;  APPLICANT:  Teresa Hong
;  TITLE OF INVENTION: Retrocyclins - Antiviral and
;  TITLE OF INVENTION:  Antimicrobial Peptides
;  FILE REFERENCE: UCLA-001CIP
;  CURRENT APPLICATION NUMBER: US/10/141,645
;  CURRENT FILING DATE:  2002-05-06
;  PRIOR APPLICATION NUMBER: 60/284,855
;  PRIOR FILING DATE: 2001-04-18
;  PRIOR APPLICATION NUMBER: Unassigned
;  PRIOR FILING DATE: 2002-04-18
;  NUMBER OF SEQ ID NOS: 125
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 72
;   LENGTH: 141
;   TYPE: PRT
;   ORGANISM: Rhesus monkey
;   FEATURE:
;   NAME/KEY: VARIANT
;   LOCATION: 113
;   OTHER INFORMATION: Xaa = Any Amino Acid
US-10-141-645-72

  Query Match             72.2%;  Score 39;  DB 2;  Length 141;
  Best Local Similarity   66.7%;  Pred. No. 1.6e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |  |||:||
Db         92 CRICCRASR 100


RESULT 19
US-10-141-645-73
; Sequence 73, Application US/10141645
; Patent No. 6713078
; GENERAL INFORMATION:
;  APPLICANT: Robert Lehrer
;  APPLICANT:  Alan Waring
;  APPLICANT:  Alexander Cole
;  APPLICANT:  Teresa Hong
;  TITLE OF INVENTION: Retrocyclins - Antiviral and
;  TITLE OF INVENTION:  Antimicrobial Peptides
;  FILE REFERENCE: UCLA-001CIP
```

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;  CURRENT APPLICATION NUMBER: US/10/141,645
;  CURRENT FILING DATE:  2002-05-06
;  PRIOR APPLICATION NUMBER: 60/284,855
;  PRIOR FILING DATE: 2001-04-18
;  PRIOR APPLICATION NUMBER: Unassigned
;  PRIOR FILING DATE: 2002-04-18
;  NUMBER OF SEQ ID NOS: 125
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 73
;   LENGTH: 141
;   TYPE: PRT
;   ORGANISM: Pig-tailed macaque
;   FEATURE:
;   NAME/KEY: VARIANT
;   LOCATION: 113
;   OTHER INFORMATION: Xaa = Any Amino Acid
US-10-141-645-73

  Query Match             72.2%;  Score 39;  DB 2;  Length 141;
  Best Local Similarity   66.7%;  Pred. No. 1.6e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |  |||:||
Db         92 CRICCRASR 100


RESULT 20
US-09-252-991A-25609
; Sequence 25609, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 25609
;   LENGTH: 208
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-25609

  Query Match             72.2%;  Score 39;  DB 2;  Length 208;
  Best Local Similarity   55.6%;  Pred. No. 2.1e+02;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              | :|||::|
Db        121 CCACCRNAR 129


RESULT 21
US-09-252-991A-22768
; Sequence 22768, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 22768
;   LENGTH: 206
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-22768

  Query Match             70.4%;  Score 38;  DB 2;  Length 206;
  Best Local Similarity   55.6%;  Pred. No. 2.8e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              | :||| :|
Db         99 CCACCRKAR 107


RESULT 22
US-09-252-991A-23908
; Sequence 23908, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 23908
;   LENGTH: 449
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-23908

  Query Match             70.4%;  Score 38;  DB 2;  Length 449;
  Best Local Similarity   75.0%;  Pred. No. 5.3e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              | |||| |
Db        296 CASCCRRS 303


RESULT 23
US-09-252-991A-29076
; Sequence 29076, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 29076
;   LENGTH: 113
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-29076

  Query Match             68.5%;  Score 37;  DB 2;  Length 113;
  Best Local Similarity   85.7%;  Pred. No. 2.4e+02;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy          3 SCCRSSR 9
              :||||||
Db         49 ACCRSSR 55


RESULT 24
US-10-197-220-140
; Sequence 140, Application US/10197220
; Patent No. 6919187
; GENERAL INFORMATION:
;  APPLICANT: Bhatia, Ajay
;  APPLICANT:  Guderian, Jeff
;  APPLICANT:  Skeiky, Yasir A. W.
;  APPLICANT:  Maisonneuve, Jean-Francois L.
;  TITLE OF INVENTION: COMPOUNDS AND METHODS FOR TREATMENT
;  TITLE OF INVENTION:  AND DIAGNOSIS OF CHLAMYDIAL INFECTION
;  FILE REFERENCE: 210121.515C3
;  CURRENT APPLICATION NUMBER: US/10/197,220
;  CURRENT FILING DATE:  2002-07-15
;  NUMBER OF SEQ ID NOS: 175
; SEQ ID NO 140
;   LENGTH: 598
;   TYPE: PRT
;   ORGANISM: Chlamydia trachomatis
US-10-197-220-140

  Query Match             68.5%;  Score 37;  DB 2;  Length 598;
  Best Local Similarity   62.5%;  Pred. No. 8.9e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              | |||: |
Db        400 CFSCCKGS 407


RESULT 25
US-08-469-260A-425
; Sequence 425, Application US/08469260A
; Patent No. 6451578
;  GENERAL INFORMATION:
;    APPLICANT:  JOHN N. SIMONS
;    APPLICANT:  TAMI J. PILOT-MATIAS
;    APPLICANT:  GEORGE J. DAWSON
;    APPLICANT:  GEORGE G. SCHLAUDER
;    APPLICANT:  SURESH M. DESAI
;    APPLICANT:  THOMAS P. LEARY
;    APPLICANT:  ANTHONY SCOTT MUERHOFF
;    APPLICANT:  JAMES C. ERKER
;    APPLICANT:  SHERI L. BUIJK
;    APPLICANT:  ISA K. MUSHAHWAR
;    TITLE OF INVENTION:  NON-A, NON-B. NON-C, NON-D, NON-E HEPATITIS
;    TITLE OF INVENTION:  REAGENTS AND METHODS FOR THEIR USE
;    NUMBER OF SEQUENCES:  716
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ABBOTT LABORATORIES  D377/AP6D
;      STREET:  100 ABBOTT PARK ROAD
;      CITY:  ABBOTT PARK
;      STATE:  IL
;      COUNTRY:  USA
;      ZIP:  60064-3500
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/469,260A
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/424,550
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  POREMBSKI, PRISCILLA E.
;      REGISTRATION NUMBER:  33,207
;      REFERENCE/DOCKET NUMBER:  5527.PC.01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  708-937-6365
;      TELEFAX:  708-938-2623
;  INFORMATION FOR SEQ ID NO:  425:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  17 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-469-260A-425

  Query Match             66.7%;  Score 36;  DB 2;  Length 17;
  Best Local Similarity   75.0%;  Pred. No. 71;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              | |||  ||
Db          1 CSSCCGSS 8


RESULT 26
US-08-488-446-425
; Sequence 425, Application US/08488446
; Patent No. 6558898
;  GENERAL INFORMATION:
;    APPLICANT:  JOHN N. SIMONS
;    APPLICANT:  TAMI J. PILOT-MATIAS
;    APPLICANT:  GEORGE J. DAWSON
;    APPLICANT:  GEORGE G. SCHLAUDER
;    APPLICANT:  SURESH M. DESAI
;    APPLICANT:  THOMAS P. LEARY
;    APPLICANT:  ANTHONY SCOTT MUERHOFF
;    APPLICANT:  JAMES C. ERKER
;    APPLICANT:  SHERI L. BUIJK
;    APPLICANT:  ISA K. MUSHAHWAR
;    TITLE OF INVENTION:  NON-A, NON-B. NON-C, NON-D, NON-E HEPATITIS
;    TITLE OF INVENTION:  REAGENTS AND METHODS FOR THEIR USE
;    NUMBER OF SEQUENCES:  716
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ABBOTT LABORATORIES  D377/AP6D
;      STREET:  100 ABBOTT PARK ROAD
;      CITY:  ABBOTT PARK
;      STATE:  IL
;      COUNTRY:  USA
;      ZIP:  60064-3500
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/488,446
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/424,550
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  POREMBSKI, PRISCILLA E.
;      REGISTRATION NUMBER:  33,207
;      REFERENCE/DOCKET NUMBER:  5527.PC.01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  708-937-6365
;      TELEFAX:  708-938-2623
;  INFORMATION FOR SEQ ID NO:  425:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  17 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
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```
US-08-488-446-425

  Query Match             66.7%;  Score 36;  DB 2;  Length 17;
  Best Local Similarity   75.0%;  Pred. No. 71;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              | ||| ||
Db          1 CSSCCGSS 8


RESULT 27
US-08-467-344A-425
; Sequence 425, Application US/08467344A
; Patent No. 6586568
;  GENERAL INFORMATION:
;       APPLICANT: JOHN N. SIMONS
;                  TAMI J. PILOT-MATIAS
;                  GEORGE J. DAWSON
;                  GEORGE G. SCHLAUDER
;                  SURESH M. DESAI
;                  THOMAS P. LEARY
;                  ANTHONY SCOTT MUERHOFF
;                  JAMES C. ERKER
;                  SHERI L. BUIJK
;                  ISA K. MUSHAHWAR
;       TITLE OF INVENTION: NON-A, NON-B. NON-C, NON-D, NON-E HEPATITIS
;                           REAGENTS AND METHODS FOR THEIR USE
;       NUMBER OF SEQUENCES: 716
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: ABBOTT LABORATORIES  D377/AP6D
;            STREET: 100 ABBOTT PARK ROAD
;            CITY: ABBOTT PARK
;            STATE: IL
;            COUNTRY: USA
;            ZIP: 60064-3500
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.25
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/08/467,344A
;            FILING DATE: 07-Jun-1995
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 08/424,550
;            FILING DATE: <Unknown>
;       ATTORNEY/AGENT INFORMATION:
;            NAME: POREMBSKI, PRISCILLA E.
;            REGISTRATION NUMBER: 33,207
;            REFERENCE/DOCKET NUMBER: 5527.PC.01
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: 708-937-6365
;            TELEFAX: 708-938-2623
;  INFORMATION FOR SEQ ID NO: 425:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 17 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       SEQUENCE DESCRIPTION: SEQ ID NO: 425:
US-08-467-344A-425

  Query Match             66.7%;  Score 36;  DB 2;  Length 17;
  Best Local Similarity   75.0%;  Pred. No. 71;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              | ||| ||
Db          1 CSSCCGSS 8


RESULT 28
US-08-424-550B-425
; Sequence 425, Application US/08424550B
; Patent No. 6720166
;  GENERAL INFORMATION:
;    APPLICANT:  JOHN N. SIMONS
;    APPLICANT:  TAMI J. PILOT-MATIAS
;    APPLICANT:  GEORGE J. DAWSON
;    APPLICANT:  GEORGE G. SCHLAUDER
;    APPLICANT:  SURESH M. DESAI
;    APPLICANT:  THOMAS P. LEARY
;    APPLICANT:  ANTHONY SCOTT MUERHOFF
;    APPLICANT:  JAMES C. ERKER
;    APPLICANT:  SHERI L. BUIJK
;    APPLICANT:  ISA K. MUSHAHWAR
;    TITLE OF INVENTION:  NON-A, NON-B. NON-C, NON-D, NON-E HEPATITIS
;    TITLE OF INVENTION:  REAGENTS AND METHODS FOR THEIR USE
;    NUMBER OF SEQUENCES:  716
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ABBOTT LABORATORIES  D377/AP6D
;      STREET:  100 ABBOTT PARK ROAD
;      CITY:  ABBOTT PARK
;      STATE:  IL
;      COUNTRY:  USA
;      ZIP:  60064-3500
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/424,550B
;      FILING DATE:
;      CLASSIFICATION:  435435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  POREMBSKI, PRISCILLA E.
;      REGISTRATION NUMBER:  33,207
;      REFERENCE/DOCKET NUMBER:  5527.PC.01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  708-937-6365
;      TELEFAX:  708-938-2623
;  INFORMATION FOR SEQ ID NO:  425:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  17 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-424-550B-425

  Query Match             66.7%;  Score 36;  DB 2;  Length 17;
  Best Local Similarity   75.0%;  Pred. No. 71;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              | ||| ||
Db          1 CSSCCGSS 8


RESULT 29
US-09-270-767-35372
; Sequence 35372, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 35372
;   LENGTH: 73
;   TYPE: PRT
```

;  ORGANISM: Drosophila melanogaster
US-09-270-767-35372

  Query Match  66.7%;  Score 36;  DB 2;  Length 73;
  Best Local Similarity  71.4%;  Pred. No. 2.3e+02;
  Matches  5;  Conservative  1;  Mismatches  1;  Indels  0;  Gaps  0;

Qy  1 CMSCCRS 7
  | |||:|
Db  22 CASCCKS 28

RESULT 30
US-09-270-767-50589
; Sequence 50589, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 50589
;  LENGTH: 73
;  TYPE: PRT
;  ORGANISM: Drosophila melanogaster
US-09-270-767-50589

  Query Match  66.7%;  Score 36;  DB 2;  Length 73;
  Best Local Similarity  71.4%;  Pred. No. 2.3e+02;
  Matches  5;  Conservative  1;  Mismatches  1;  Indels  0;  Gaps  0;

Qy  1 CMSCCRS 7
  | |||:|
Db  22 CASCCKS 28

RESULT 31
US-09-198-452A-1276
; Sequence 1276, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
;  APPLICANT: Griffais, R.
;  TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
;  TITLE OF INVENTION:  thereof and uses thereof, in particular for the diagnosis, preve
;  TITLE OF INVENTION:  and treatment of infection
;  FILE REFERENCE: 9710-003-999
;  CURRENT APPLICATION NUMBER: US/09/198,452A
;  CURRENT FILING DATE:  1998-11-24
;  NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 1276
;  LENGTH: 84
;  TYPE: PRT
;  ORGANISM: Chlamydia pneumoniae
US-09-198-452A-1276

  Query Match  66.7%;  Score 36;  DB 2;  Length 84;
  Best Local Similarity  75.0%;  Pred. No. 2.5e+02;
  Matches  6;  Conservative  0;  Mismatches  2;  Indels  0;  Gaps  0;

Qy  1 CMSCCRSS 8
  | |||| |
Db  10 CGSCCRCS 17

RESULT 32
US-09-252-991A-18070
; Sequence 18070, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 18070
;  LENGTH: 329
;  TYPE: PRT
;  ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18070

  Query Match  66.7%;  Score 36;  DB 2;  Length 329;
  Best Local Similarity  55.6%;  Pred. No. 7.4e+02;
  Matches  5;  Conservative  2;  Mismatches  2;  Indels  0;  Gaps  0;

Qy  1 CMSCCRSSR 9
  | :|| |:|
Db  17 CSACCASAR 25

RESULT 33
US-09-252-991A-30039
; Sequence 30039, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 30039
;  LENGTH: 953
;  TYPE: PRT
;  ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30039

  Query Match  66.7%;  Score 36;  DB 2;  Length 953;
  Best Local Similarity  100.0%;  Pred. No. 1.7e+03;
  Matches  6;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps  0;

Qy  4 CCRSSR 9
  ||||||
Db  929 CCRSSR 934

RESULT 34
US-09-270-767-38870
; Sequence 38870, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 38870
;  LENGTH: 44
;  TYPE: PRT
;  ORGANISM: Drosophila melanogaster
US-09-270-767-38870

```
  Query Match             64.8%;  Score 35;  DB 2;  Length 44;
  Best Local Similarity   55.6%;  Pred. No. 2e+02;
  Matches    5;  Conservative    0;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |  |||  |
Db         20 CRRCCREQR 28


RESULT 35
US-09-270-767-54087
; Sequence 54087, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 54087
;    LENGTH: 44
;    TYPE: PRT
;    ORGANISM: Drosophila melanogaster
US-09-270-767-54087

  Query Match             64.8%;  Score 35;  DB 2;  Length 44;
  Best Local Similarity   55.6%;  Pred. No. 2e+02;
  Matches    5;  Conservative    0;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |  |||  |
Db         20 CRRCCREQR 28


RESULT 36
US-09-950-933A-60
; Sequence 60, Application US/09950933A
; Patent No. 6875907
; GENERAL INFORMATION:
;  APPLICANT: Simmons, Carl R.
;  APPLICANT:  Navarro, Pedro
;  TITLE OF INVENTION: Antimicrobial Peptides and Methods of
;  TITLE OF INVENTION:  Use
;  FILE REFERENCE: 35718/238472
;  CURRENT APPLICATION NUMBER: US/09/950,933A
;  CURRENT FILING DATE:  2001-09-11
;  PRIOR APPLICATION NUMBER: 60/232,569
;  PRIOR FILING DATE: 2000-09-13
;  NUMBER OF SEQ ID NOS: 99
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 60
;    LENGTH: 96
;    TYPE: PRT
;    ORGANISM: Glycine max
US-09-950-933A-60

  Query Match             64.8%;  Score 35;  DB 2;  Length 96;
  Best Local Similarity   55.6%;  Pred. No. 3.8e+02;
  Matches    5;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              | |||:  |
Db         59 CNSCCKKCR 67


RESULT 37
US-09-252-991A-17724
; Sequence 17724, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 17724
;    LENGTH: 147
;    TYPE: PRT
;    ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17724

  Query Match             64.8%;  Score 35;  DB 2;  Length 147;
  Best Local Similarity   85.7%;  Pred. No. 5.3e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 SCCRSSR 9
              ||| |||
Db        134 SCCNSSR 140


RESULT 38
US-09-252-991A-20715
; Sequence 20715, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 20715
;    LENGTH: 167
;    TYPE: PRT
;    ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-20715

  Query Match             64.8%;  Score 35;  DB 2;  Length 167;
  Best Local Similarity   66.7%;  Pred. No. 5.8e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              | | ||:||
Db        125 CPSACRASR 133


RESULT 39
US-09-252-991A-32502
; Sequence 32502, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
```

```
; SEQ ID NO 32502
;   LENGTH: 168
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-32502

  Query Match             64.8%;  Score 35;  DB 2;  Length 168;
  Best Local Similarity   85.7%;  Pred. No. 5.9e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 SCCRSSR 9
              |||| ||
Db        148 SCCRCSR 154


RESULT 40
US-09-673-395A-148
; Sequence 148, Application US/09673395A
; Patent No. 6620923
; GENERAL INFORMATION:
;  APPLICANT: SPECHT, THOMAS
;  APPLICANT:  HINZMANN, BERND
;  APPLICANT:  SCHMITT, ARMIN
;  APPLICANT:  PILARSKY, CHRISTIAN
;  APPLICANT:  DAHL, EDGAR
;  APPLICANT:  ROSENTHAL, ANDRE
;  TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM UTERUS TUMOR TISSUE
;  FILE REFERENCE: ALBRE-12
;  CURRENT APPLICATION NUMBER: US/09/673,395A
;  CURRENT FILING DATE:  2000-10-17
;  NUMBER OF SEQ ID NOS: 637
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 148
;   LENGTH: 187
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-673-395A-148

  Query Match             64.8%;  Score 35;  DB 2;  Length 187;
  Best Local Similarity   71.4%;  Pred. No. 6.4e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CMSCCRS 7
              |: ||||
Db        132 CILCCRS 138


RESULT 41
US-09-252-991A-32518
; Sequence 32518, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 32518
;   LENGTH: 197
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-32518

  Query Match             64.8%;  Score 35;  DB 2;  Length 197;
  Best Local Similarity   66.7%;  Pred. No. 6.6e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              | || ||:|
Db        151 CASCVRSAR 159


RESULT 42
US-09-198-452A-641
; Sequence 641, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
;  APPLICANT: Griffais, R.
;  TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
;  TITLE OF INVENTION:  thereof and uses thereof, in particular for the diagnosis, prever
;  TITLE OF INVENTION:  and treatment of infection
;  FILE REFERENCE: 9710-003-999
;  CURRENT APPLICATION NUMBER: US/09/198,452A
;  CURRENT FILING DATE:  1998-11-24
;  NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 641
;   LENGTH: 210
;   TYPE: PRT
;   ORGANISM: Chlamydia pneumoniae
US-09-198-452A-641

  Query Match             64.8%;  Score 35;  DB 2;  Length 210;
  Best Local Similarity   83.3%;  Pred. No. 7e+02;
  Matches    5;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CMSCCR 6
              | ||||
Db        187 CASCCR 192


RESULT 43
US-09-252-991A-31933
; Sequence 31933, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 31933
;   LENGTH: 218
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-31933

  Query Match             64.8%;  Score 35;  DB 2;  Length 218;
  Best Local Similarity   75.0%;  Pred. No. 7.2e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              ||  ||||
Db         74 CMPACRSS 81


RESULT 44
US-09-270-767-35096
; Sequence 35096, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
```

; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 35096
; LENGTH: 245
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-35096

Query Match 64.8%; Score 35; DB 2; Length 245;
Best Local Similarity 83.3%; Pred. No. 7.9e+02;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CMSCCR 6
| ||||
Db 239 CRSCCR 244

RESULT 45
US-09-270-767-50313
; Sequence 50313, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 50313
; LENGTH: 245
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-50313

Query Match 64.8%; Score 35; DB 2; Length 245;
Best Local Similarity 83.3%; Pred. No. 7.9e+02;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CMSCCR 6
| ||||
Db 239 CRSCCR 244

RESULT 46
US-09-252-991A-29249
; Sequence 29249, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 29249
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-29249

Query Match 64.8%; Score 35; DB 2; Length 248;
Best Local Similarity 62.5%; Pred. No. 8e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CMSCCRSS 8
| |||:|
Db 49 CRRCCRAS 56

RESULT 47
US-09-949-016-9099
; Sequence 9099, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9099
; LENGTH: 287
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-9099

Query Match 64.8%; Score 35; DB 2; Length 287;
Best Local Similarity 55.6%; Pred. No. 8.9e+02;
Matches 5; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 CMSCCRSSR 9
| ||| |
Db 72 CFRCCRCQR 80

RESULT 48
US-09-439-313-532
; Sequence 532, Application US/09439313
; Patent No. 6329505
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang Yuqui
; APPLICANT: Reed, Steven G.
; APPLICANT: Kalos, Michael
; APPLICANT: Fanger, Gary
; APPLICANT: Retter, Mark
; APPLICANT: Solk, John
; APPLICANT: Day, Craig
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C9
; CURRENT APPLICATION NUMBER: US/09/439,313
; CURRENT FILING DATE: 1999-11-12
; NUMBER OF SEQ ID NOS: 575
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 532
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-439-313-532

Query Match 64.8%; Score 35; DB 2; Length 292;
Best Local Similarity 62.5%; Pred. No. 9.1e+02;
Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```
Qy          1 CMSCCRSS 8
              |  |||  |
Db         47 CFPCCRGS 54
```

RESULT 49
US-09-636-215-532
; Sequence 532, Application US/09636215
; Patent No. 6620922
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.42717C17
; CURRENT APPLICATION NUMBER: US/09/636,215
; CURRENT FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 852
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 532
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-636-215-532

```
  Query Match             64.8%;  Score 35;  DB 2;  Length 292;
  Best Local Similarity   62.5%;  Pred. No. 9.1e+02;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              |  |||  |
Db         47 CFPCCRGS 54
```

RESULT 50
US-09-685-166A-532
; Sequence 532, Application US/09685166A
; Patent No. 6630305
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C21
; CURRENT APPLICATION NUMBER: US/09/685,166A
; CURRENT FILING DATE: 2000-10-10
; NUMBER OF SEQ ID NOS: 898
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 532
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-685-166A-532

```
  Query Match             64.8%;  Score 35;  DB 2;  Length 292;
  Best Local Similarity   62.5%;  Pred. No. 9.1e+02;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              |  |||  |
Db         47 CFPCCRGS 54
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Search completed: May 5, 2006, 02:25:36
Job time : 22.8 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:44:45 ; Search time 55.9 Seconds
(without alignments)
67.271 Million cell updates/sec

Title: US-08-170-344-56
Perfect score: 54
Sequence: 1 CMSCCRSSR 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_Main:*
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
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4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
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6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
|---|---|---|---|---|---|---|
| 1 | 54 | 100.0 | 16 | 5 | US-10-484-063-9 | Sequence 9, Appli |
| 2 | 54 | 100.0 | 20 | 5 | US-10-938-249-513 | Sequence 513, App |
| 3 | 54 | 100.0 | 24 | 4 | US-10-476-570-44 | Sequence 44, Appl |
| 4 | 54 | 100.0 | 151 | 4 | US-10-177-390-6 | Sequence 6, Appli |
| 5 | 54 | 100.0 | 151 | 5 | US-10-484-063-20 | Sequence 20, Appl |
| 6 | 54 | 100.0 | 151 | 5 | US-10-484-063-27 | Sequence 27, Appl |
| 7 | 54 | 100.0 | 158 | 5 | US-10-858-384-2 | Sequence 2, Appli |
| 8 | 54 | 100.0 | 158 | 5 | US-10-367-057-16 | Sequence 16, Appl |
| 9 | 54 | 100.0 | 158 | 6 | US-11-021-949-13 | Sequence 13, Appl |
| 10 | 54 | 100.0 | 171 | 4 | US-10-472-724-2 | Sequence 2, Appli |
| 11 | 54 | 100.0 | 243 | 6 | US-11-072-288-1 | Sequence 1, Appli |
| 12 | 54 | 100.0 | 266 | 3 | US-09-367-309A-1 | Sequence 1, Appli |
| 13 | 54 | 100.0 | 273 | 4 | US-10-000-903-4 | Sequence 4, Appli |
| 14 | 54 | 100.0 | 273 | 5 | US-10-899-771-4 | Sequence 4, Appli |
| 15 | 54 | 100.0 | 292 | 4 | US-10-000-903-10 | Sequence 10, Appl |
| 16 | 54 | 100.0 | 292 | 5 | US-10-899-771-10 | Sequence 10, Appl |
| 17 | 54 | 100.0 | 371 | 4 | US-10-000-903-6 | Sequence 6, Appli |
| 18 | 54 | 100.0 | 371 | 5 | US-10-899-771-6 | Sequence 6, Appli |
| 19 | 54 | 100.0 | 390 | 4 | US-10-000-903-14 | Sequence 14, Appl |
| 20 | 54 | 100.0 | 390 | 5 | US-10-899-771-14 | Sequence 14, Appl |
| 21 | 49 | 90.7 | 10 | 5 | US-10-484-063-10 | Sequence 10, Appl |
| 22 | 41 | 75.9 | 118 | 4 | US-10-425-115-214017 | Sequence 214017, |
| 23 | 41 | 75.9 | 341 | 4 | US-10-437-963-192283 | Sequence 192283, |
| 24 | 41 | 75.9 | 377 | 5 | US-10-739-930-11071 | Sequence 11071, A |
| 25 | 41 | 75.9 | 747 | 4 | US-10-425-114-38701 | Sequence 38701, A |
| 26 | 41 | 75.9 | 817 | 4 | US-10-425-114-38290 | Sequence 38290, A |
| 27 | 41 | 75.9 | 941 | 4 | US-10-424-599-210074 | Sequence 210074, |
| 28 | 41 | 75.9 | 11300 | 4 | US-10-250-304A-2 | Sequence 2, Appli |
| 29 | 40 | 74.1 | 43 | 3 | US-09-397-945-213 | Sequence 213, App |
| 30 | 40 | 74.1 | 43 | 4 | US-10-653-595-213 | Sequence 213, App |
| 31 | 40 | 74.1 | 61 | 3 | US-09-864-761-36259 | Sequence 36259, A |
| 32 | 40 | 74.1 | 88 | 5 | US-10-450-763-48672 | Sequence 48672, A |
| 33 | 40 | 74.1 | 137 | 3 | US-09-397-945-211 | Sequence 211, App |
| 34 | 40 | 74.1 | 137 | 4 | US-10-653-595-211 | Sequence 211, App |
| 35 | 40 | 74.1 | 210 | 4 | US-10-424-599-214145 | Sequence 214145, |
| 36 | 40 | 74.1 | 239 | 6 | US-11-097-143-7383 | Sequence 7383, Ap |
| 37 | 40 | 74.1 | 245 | 4 | US-10-425-114-65786 | Sequence 65786, A |
| 38 | 40 | 74.1 | 1345 | 4 | US-10-108-605-249 | Sequence 249, App |
| 39 | 40 | 74.1 | 1368 | 4 | US-10-263-929-149 | Sequence 149, App |
| 40 | 40 | 74.1 | 1368 | 5 | US-10-494-921-57 | Sequence 57, Appl |
| 41 | 40 | 74.1 | 1368 | 6 | US-11-097-143-23016 | Sequence 23016, A |
| 42 | 39 | 72.2 | 50 | 4 | US-10-050-882-89 | Sequence 89, Appl |
| 43 | 39 | 72.2 | 50 | 5 | US-10-963-903-89 | Sequence 89, Appl |
| 44 | 39 | 72.2 | 67 | 5 | US-10-808-187-1685 | Sequence 1685, Ap |
| 45 | 39 | 72.2 | 67 | 5 | US-10-807-807-1685 | Sequence 1685, Ap |
| 46 | 39 | 72.2 | 141 | 4 | US-10-141-645-72 | Sequence 72, Appl |
| 47 | 39 | 72.2 | 141 | 4 | US-10-141-645-73 | Sequence 73, Appl |
| 48 | 38 | 70.4 | 45 | 5 | US-10-808-187-193 | Sequence 193, App |
| 49 | 38 | 70.4 | 45 | 5 | US-10-807-807-193 | Sequence 193, App |
| 50 | 38 | 70.4 | 70 | 4 | US-10-424-599-202673 | Sequence 202673, |
| 51 | 38 | 70.4 | 73 | 4 | US-10-425-115-295668 | Sequence 295668, |
| 52 | 38 | 70.4 | 93 | 4 | US-10-425-115-265982 | Sequence 265982, |
| 53 | 38 | 70.4 | 136 | 4 | US-10-425-115-357597 | Sequence 357597, |
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| 56 | 38 | 70.4 | 251 | 4 | US-10-425-114-66360 | Sequence 66360, A |
| 57 | 38 | 70.4 | 253 | 4 | US-10-767-701-40737 | Sequence 40737, A |
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| 66 | 37 | 68.5 | 136 | 4 | US-10-437-963-156901 | Sequence 156901, |
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| 71 | 37 | 68.5 | 241 | 4 | US-10-425-115-273966 | Sequence 273966, |
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| 73 | 37 | 68.5 | 281 | 4 | US-10-424-599-192239 | Sequence 192239, |
| 74 | 37 | 68.5 | 304 | 4 | US-10-282-122A-53249 | Sequence 53249, A |
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| 77 | 37 | 68.5 | 526 | 4 | US-10-424-599-225865 | Sequence 225865, |
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| 80 | 37 | 68.5 | 598 | 4 | US-10-007-693-140 | Sequence 140, App |
| 81 | 37 | 68.5 | 598 | 4 | US-10-762-058-140 | Sequence 140, App |
| 82 | 37 | 68.5 | 598 | 5 | US-10-197-220-140 | Sequence 140, App |
| 83 | 37 | 68.5 | 598 | 6 | US-11-109-468-140 | Sequence 140, App |
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| 90 | 37 | 68.5 | 2013 | 4 | US-10-437-963-204416 | Sequence 204416, |
| 91 | 36 | 66.7 | 17 | 2 | US-08-424-550B-425 | Sequence 425, App |
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| 93 | 36 | 66.7 | 24 | 6 | US-11-021-949-5 | Sequence 5, Appli |
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| 117 | 36 | 66.7 | 152 | 4 | US-10-425-115-305852 | Sequence 305852, |
| 118 | 36 | 66.7 | 155 | 4 | US-10-437-963-183229 | Sequence 183229, |
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| 120 | 36 | 66.7 | 156 | 5 | US-10-499-065A-493 | Sequence 493, App |
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| 127 | 36 | 66.7 | 312 | 3 | US-09-804-291-171 | Sequence 171, App |
| 128 | 36 | 66.7 | 312 | 4 | US-10-017-161-624 | Sequence 624, App |
| 129 | 36 | 66.7 | 312 | 4 | US-10-387-629-28 | Sequence 28, Appl |
| 130 | 36 | 66.7 | 312 | 4 | US-10-292-798-548 | Sequence 548, App |
| 131 | 36 | 66.7 | 312 | 4 | US-10-343-650A-434 | Sequence 434, App |
| 132 | 36 | 66.7 | 312 | 4 | US-10-473-518-19 | Sequence 19, Appl |
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| 151 | 35 | 64.8 | 20 | 4 | US-10-212-679-363 | Sequence 363, App |
| 152 | 35 | 64.8 | 20 | 4 | US-10-212-679-364 | Sequence 364, App |
| 153 | 35 | 64.8 | 20 | 4 | US-10-212-679-365 | Sequence 365, App |
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| 165 | 35 | 64.8 | 27 | 4 | US-10-097-065-580 | Sequence 580, App |
| 166 | 35 | 64.8 | 27 | 4 | US-10-372-876-580 | Sequence 580, App |
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| 169 | 35 | 64.8 | 33 | 4 | US-10-212-679-428 | Sequence 428, App |
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| 187 | 35 | 64.8 | 86 | 4 | US-10-372-876-579 | Sequence 579, App |
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| 206 | 35 | 64.8 | 193 | 4 | US-10-650-608-11 | Sequence 11, Appl |
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| 209 | 35 | 64.8 | 223 | 4 | US-10-424-599-149377 | Sequence 149377, |
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| 222 | 35 | 64.8 | 292 | 3 | US-09-780-669-532 | Sequence 532, App |
| 223 | 35 | 64.8 | 292 | 3 | US-09-810-936-315 | Sequence 315, App |
| 224 | 35 | 64.8 | 292 | 3 | US-09-822-827-532 | Sequence 532, App |
| 225 | 35 | 64.8 | 292 | 3 | US-09-429-755-315 | Sequence 315, App |
| 226 | 35 | 64.8 | 292 | 3 | US-09-924-400-315 | Sequence 315, App |
| 227 | 35 | 64.8 | 292 | 3 | US-09-895-793-532 | Sequence 532, App |
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| 230 | 35 | 64.8 | 292 | 4 | US-10-010-940-532 | Sequence 532, App |
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| 233 | 35 | 64.8 | 292 | 4 | US-10-212-679-346 | Sequence 346, App |
| 234 | 35 | 64.8 | 292 | 4 | US-10-144-678A-532 | Sequence 532, App |
| 235 | 35 | 64.8 | 292 | 4 | US-10-033-527-4 | Sequence 4, Appli |
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| 239 | 35 | 64.8 | 292 | 4 | US-10-079-137B-346 | Sequence 346, App |
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| 243 | 35 | 64.8 | 313 | 4 | US-10-079-137B-348 | Sequence 348, App |
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| 245 | 35 | 64.8 | 315 | 4 | US-10-292-798-1722 | Sequence 1722, Ap |
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| 255 | 35 | 64.8 | 373 | 4 | US-10-042-431-6 | Sequence 6, Appli |
| 256 | 35 | 64.8 | 373 | 4 | US-10-741-790-376 | Sequence 376, App |
| 257 | 35 | 64.8 | 384 | 3 | US-09-825-301-8 | Sequence 8, Appli |
| 258 | 35 | 64.8 | 384 | 3 | US-09-810-936-304 | Sequence 304, App |
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| 260 | 35 | 64.8 | 384 | 3 | US-09-810-936-332 | Sequence 332, App |
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| 278 | 35 | 64.8 | 384 | 4 | US-10-079-137B-326 | Sequence 326, App |
| 279 | 35 | 64.8 | 384 | 4 | US-10-079-137B-332 | Sequence 332, App |
| 280 | 35 | 64.8 | 384 | 4 | US-10-079-137B-333 | Sequence 333, App |
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| 282 | 35 | 64.8 | 384 | 4 | US-10-079-137B-340 | Sequence 340, App |
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| 285 | 35 | 64.8 | 384 | 4 | US-10-451-168-96 | Sequence 96, Appl |
| 286 | 35 | 64.8 | 384 | 5 | US-10-980-387-86 | Sequence 86, Appl |
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| 288 | 35 | 64.8 | 384 | 5 | US-10-980-387-96 | Sequence 96, Appl |
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| 298 | 35 | 64.8 | 451 | 4 | US-10-741-790-413 | Sequence 413, App |
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| 307 | 35 | 64.8 | 460 | 3 | US-09-826-509-513 | Sequence 513, App |
| 308 | 35 | 64.8 | 460 | 4 | US-10-225-567A-188 | Sequence 188, App |
| 309 | 35 | 64.8 | 460 | 4 | US-10-336-489-6 | Sequence 6, Appli |
| 310 | 35 | 64.8 | 460 | 4 | US-10-096-319-66 | Sequence 66, Appl |
| 311 | 35 | 64.8 | 460 | 4 | US-10-423-543-93 | Sequence 93, Appl |
| 312 | 35 | 64.8 | 460 | 4 | US-10-806-018-82 | Sequence 82, Appl |
| 313 | 35 | 64.8 | 460 | 5 | US-10-925-095-513 | Sequence 513, App |
| 314 | 35 | 64.8 | 470 | 3 | US-09-759-130B-439 | Sequence 439, App |
| 315 | 35 | 64.8 | 470 | 4 | US-10-042-431-69 | Sequence 69, Appl |
| 316 | 35 | 64.8 | 470 | 4 | US-10-741-790-439 | Sequence 439, App |
| 317 | 35 | 64.8 | 475 | 3 | US-09-759-130B-373 | Sequence 373, App |
| 318 | 35 | 64.8 | 475 | 4 | US-10-042-431-3 | Sequence 3, Appli |
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| 320 | 35 | 64.8 | 477 | 3 | US-09-905-673-67 | Sequence 67, Appl |
| 321 | 35 | 64.8 | 477 | 4 | US-10-096-319-67 | Sequence 67, Appl |
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| 323 | 35 | 64.8 | 492 | 4 | US-10-094-749-2546 | Sequence 2546, Ap |
| 324 | 35 | 64.8 | 498 | 4 | US-10-029-009-22 | Sequence 22, Appl |
| 325 | 35 | 64.8 | 529 | 3 | US-09-810-936-324 | Sequence 324, App |
| 326 | 35 | 64.8 | 529 | 3 | US-09-924-400-324 | Sequence 324, App |
| 327 | 35 | 64.8 | 529 | 4 | US-10-212-679-324 | Sequence 324, App |
| 328 | 35 | 64.8 | 529 | 4 | US-10-079-137B-324 | Sequence 324, App |
| 329 | 35 | 64.8 | 586 | 4 | US-10-112-944-748 | Sequence 748, App |
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| 335 | 35 | 64.8 | 656 | 3 | US-09-759-143-379 | Sequence 379, App |
| 336 | 35 | 64.8 | 656 | 3 | US-09-780-669-379 | Sequence 379, App |
| 337 | 35 | 64.8 | 656 | 3 | US-09-810-936-305 | Sequence 305, App |
| 338 | 35 | 64.8 | 656 | 3 | US-09-822-827-379 | Sequence 379, App |
| 339 | 35 | 64.8 | 656 | 3 | US-09-429-755-305 | Sequence 305, App |
| 340 | 35 | 64.8 | 656 | 3 | US-09-924-400-305 | Sequence 305, App |
| 341 | 35 | 64.8 | 656 | 3 | US-09-895-793-379 | Sequence 379, App |
| 342 | 35 | 64.8 | 656 | 3 | US-09-895-814-379 | Sequence 379, App |
| 343 | 35 | 64.8 | 656 | 4 | US-10-012-896-379 | Sequence 379, App |
| 344 | 35 | 64.8 | 656 | 4 | US-10-010-940-379 | Sequence 379, App |
| 345 | 35 | 64.8 | 656 | 4 | US-10-212-679-305 | Sequence 305, App |
| 346 | 35 | 64.8 | 656 | 4 | US-10-144-678A-379 | Sequence 379, App |
| 347 | 35 | 64.8 | 656 | 4 | US-10-033-527-9 | Sequence 9, Appli |
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| 349 | 35 | 64.8 | 656 | 4 | US-10-079-137B-305 | Sequence 305, App |
| 350 | 35 | 64.8 | 671 | 3 | US-09-825-301-10 | Sequence 10, Appl |
| 351 | 35 | 64.8 | 671 | 3 | US-09-759-143-380 | Sequence 380, App |
| 352 | 35 | 64.8 | 671 | 3 | US-09-780-669-380 | Sequence 380, App |
| 353 | 35 | 64.8 | 671 | 3 | US-09-810-936-306 | Sequence 306, App |
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| 358 | 35 | 64.8 | 671 | 3 | US-09-895-814-380 | Sequence 380, App |
| 359 | 35 | 64.8 | 671 | 4 | US-10-012-896-380 | Sequence 380, App |
| 360 | 35 | 64.8 | 671 | 4 | US-10-010-940-380 | Sequence 380, App |
| 361 | 35 | 64.8 | 671 | 4 | US-10-212-679-306 | Sequence 306, App |
| 362 | 35 | 64.8 | 671 | 4 | US-10-144-678A-380 | Sequence 380, App |
| 363 | 35 | 64.8 | 671 | 4 | US-10-033-527-10 | Sequence 10, Appl |
| 364 | 35 | 64.8 | 671 | 4 | US-10-294-025-380 | Sequence 380, App |
| 365 | 35 | 64.8 | 671 | 4 | US-10-079-137B-306 | Sequence 306, App |
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| 368 | 35 | 64.8 | 689 | 4 | US-10-257-021-147 | Sequence 147, App |
| 369 | 35 | 64.8 | 689 | 6 | US-11-050-926-221 | Sequence 221, App |
| 370 | 35 | 64.8 | 690 | 4 | US-10-173-999-150 | Sequence 150, App |
| 371 | 35 | 64.8 | 690 | 5 | US-10-747-032-21 | Sequence 21, Appl |
| 372 | 35 | 64.8 | 690 | 5 | US-10-936-626-106 | Sequence 106, App |
| 373 | 35 | 64.8 | 690 | 5 | US-10-936-626-107 | Sequence 107, App |
| 374 | 35 | 64.8 | 690 | 5 | US-10-938-061-106 | Sequence 106, App |
| 375 | 35 | 64.8 | 690 | 5 | US-10-938-061-107 | Sequence 107, App |
| 376 | 35 | 64.8 | 690 | 5 | US-10-756-149-5110 | Sequence 5110, Ap |
| 377 | 35 | 64.8 | 690 | 5 | US-10-631-467-923 | Sequence 923, App |
| 378 | 35 | 64.8 | 690 | 5 | US-10-983-340-6 | Sequence 6, Appli |
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| 380 | 35 | 64.8 | 735 | 4 | US-10-437-963-127595 | Sequence 127595, |
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| 383 | 35 | 64.8 | 806 | 5 | US-10-450-763-45948 | Sequence 45948, A |
| 384 | 35 | 64.8 | 847 | 3 | US-09-875-321-2 | Sequence 2, Appli |
| 385 | 35 | 64.8 | 847 | 4 | US-10-162-012-2 | Sequence 2, Appli |
| 386 | 35 | 64.8 | 847 | 4 | US-10-162-102-2 | Sequence 2, Appli |
| 387 | 35 | 64.8 | 847 | 5 | US-10-916-061-2 | Sequence 2, Appli |
| 388 | 35 | 64.8 | 886 | 4 | US-10-297-022-22 | Sequence 22, Appl |
| 389 | 35 | 64.8 | 969 | 3 | US-09-961-403-6 | Sequence 6, Appli |
| 390 | 35 | 64.8 | 969 | 5 | US-10-723-860-2254 | Sequence 2254, Ap |
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| 394 | 35 | 64.8 | 1138 | 4 | US-10-043-487-266 | Sequence 266, App |
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| 398 | 35 | 64.8 | 1719 | 3 | US-09-780-669-378 | Sequence 378, App |
| 399 | 35 | 64.8 | 1719 | 3 | US-09-822-827-378 | Sequence 378, App |
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| 404 | 35 | 64.8 | 1719 | 4 | US-10-144-678A-378 | Sequence 378, App |
| 405 | 35 | 64.8 | 1719 | 4 | US-10-294-025-378 | Sequence 378, App |
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| 407 | 34 | 63.0 | 22 | 4 | US-10-153-244-334 | Sequence 334, App |
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| 413 | 34 | 63.0 | 47 | 4 | US-10-437-963-130484 | Sequence 130484, |
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| 415 | 34 | 63.0 | 62 | 4 | US-10-425-115-272883 | Sequence 272883, |
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| 423 | 34 | 63.0 | 76 | 4 | US-10-062-599-68 | Sequence 68, Appl |
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| 467 | 34 | 63.0 | 201 | 6 | US-11-097-143-7704 | Sequence 7704, Ap |
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| 531 | 34 | 63.0 | 834 | 4 | US-10-123-236-148 | Sequence 148, App |
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| 535 | 34 | 63.0 | 834 | 4 | US-10-121-045-148 | Sequence 148, App |
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| 537 | 34 | 63.0 | 834 | 4 | US-10-123-903-148 | Sequence 148, App |
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| 542 | 34 | 63.0 | 834 | 4 | US-10-124-824-148 | Sequence 148, App |
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| 544 | 34 | 63.0 | 834 | 4 | US-10-127-829A-148 | Sequence 148, App |
| 545 | 34 | 63.0 | 834 | 4 | US-10-127-835A-148 | Sequence 148, App |
| 546 | 34 | 63.0 | 834 | 4 | US-10-127-839A-148 | Sequence 148, App |
| 547 | 34 | 63.0 | 834 | 4 | US-10-127-901A-148 | Sequence 148, App |
| 548 | 34 | 63.0 | 834 | 4 | US-10-128-693A-148 | Sequence 148, App |
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| 557 | 34 | 63.0 | 834 | 4 | US-10-147-502-148 | Sequence 148, App |
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| 563 | 34 | 63.0 | 834 | 4 | US-10-121-043-148 | Sequence 148, App |
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| 835 | 34 | 63.0 | 834 | 4 | US-10-152-399-148 | Sequence 148, App |
| 836 | 34 | 63.0 | 834 | 4 | US-10-156-848-148 | Sequence 148, App |
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| 858 | 34 | 63.0 | 834 | 4 | US-10-121-053-148 | Sequence 148, App |
| 859 | 34 | 63.0 | 834 | 4 | US-10-121-054-148 | Sequence 148, App |
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| 870 | 34 | 63.0 | 834 | 4 | US-10-127-852A-148 | Sequence 148, App |
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| 874 | 34 | 63.0 | 834 | 4 | US-10-142-886-148 | Sequence 148, App |
| 875 | 34 | 63.0 | 834 | 4 | US-10-146-728-148 | Sequence 148, App |
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| 879 | 34 | 63.0 | 834 | 4 | US-10-123-913-148 | Sequence 148, App |
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| 884 | 34 | 63.0 | 834 | 4 | US-10-141-699-148 | Sequence 148, App |
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| 892 | 34 | 63.0 | 834 | 4 | US-10-143-027-148 | Sequence 148, App |
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| 895 | 34 | 63.0 | 834 | 4 | US-10-144-958-148 | Sequence 148, App |
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| 898 | 34 | 63.0 | 834 | 4 | US-10-145-753-148 | Sequence 148, App |
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| 901 | 34 | 63.0 | 834 | 4 | US-10-146-794-148 | Sequence 148, App |
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| 903 | 34 | 63.0 | 834 | 4 | US-10-147-507-148 | Sequence 148, App |
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| 906 | 34 | 63.0 | 834 | 4 | US-10-152-376-148 | Sequence 148, App |
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| 908 | 34 | 63.0 | 834 | 4 | US-10-152-400-148 | Sequence 148, App |
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| 912 | 34 | 63.0 | 834 | 4 | US-10-157-801-148 | Sequence 148, App |
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| 914 | 34 | 63.0 | 834 | 4 | US-10-158-784-148 | Sequence 148, App |
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| 927 | 34 | 63.0 | 834 | 4 | US-10-143-113-148 | Sequence 148, App |
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| 930 | 34 | 63.0 | 834 | 4 | US-10-158-791-148 | Sequence 148, App |
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| 932 | 34 | 63.0 | 834 | 4 | US-10-157-786-148 | Sequence 148, App |
| 933 | 34 | 63.0 | 834 | 4 | US-10-152-405-148 | Sequence 148, App |
| 934 | 34 | 63.0 | 834 | 4 | US-10-147-528-148 | Sequence 148, App |
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| 936 | 34 | 63.0 | 834 | 4 | US-10-264-237-2619 | Sequence 2619, Ap |
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| 938 | 34 | 63.0 | 834 | 4 | US-10-140-927-148 | Sequence 148, App |
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| 943 | 34 | 63.0 | 834 | 4 | US-10-144-993-148 | Sequence 148, App |
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| 945 | 34 | 63.0 | 834 | 4 | US-10-142-426-148 | Sequence 148, App |
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| 949 | 34 | 63.0 | 834 | 4 | US-10-125-795-148 | Sequence 148, App |
| 950 | 34 | 63.0 | 834 | 4 | US-10-145-626-148 | Sequence 148, App |
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| 952 | 34 | 63.0 | 834 | 4 | US-10-145-825-148 | Sequence 148, App |
| 953 | 34 | 63.0 | 834 | 4 | US-10-147-513-148 | Sequence 148, App |
| 954 | 34 | 63.0 | 834 | 4 | US-10-147-518-148 | Sequence 148, App |
| 955 | 34 | 63.0 | 834 | 5 | US-10-145-961-148 | Sequence 148, App |
| 956 | 34 | 63.0 | 834 | 5 | US-10-147-488-148 | Sequence 148, App |
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| 958 | 34 | 63.0 | 834 | 5 | US-10-919-272-48 | Sequence 48, Appl |
| 959 | 34 | 63.0 | 834 | 5 | US-10-931-886-148 | Sequence 148, App |
| 960 | 34 | 63.0 | 834 | 5 | US-10-158-788-148 | Sequence 148, App |
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| 966 | 34 | 63.0 | 963 | 4 | US-10-425-114-39483 | Sequence 39483, A |
| 967 | 34 | 63.0 | 989 | 4 | US-10-017-161-2072 | Sequence 2072, Ap |
| 968 | 34 | 63.0 | 989 | 4 | US-10-292-798-1718 | Sequence 1718, Ap |
| 969 | 34 | 63.0 | 995 | 6 | US-11-097-143-2607 | Sequence 2607, Ap |
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| 972 | 34 | 63.0 | 1094 | 4 | US-10-209-059-18 | Sequence 18, Appl |
| 973 | 34 | 63.0 | 1094 | 4 | US-10-160-719-26 | Sequence 26, Appl |
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| 975 | 34 | 63.0 | 1094 | 4 | US-10-627-132-18 | Sequence 18, Appl |
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| 977 | 34 | 63.0 | 1094 | 4 | US-10-425-115-229855 | Sequence 229855, |
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| 979 | 34 | 63.0 | 1094 | 5 | US-10-961-254-26 | Sequence 26, Appl |
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| 981 | 34 | 63.0 | 1165 | 3 | US-09-900-237-8 | Sequence 8, Appli |
| 982 | 34 | 63.0 | 1212 | 5 | US-10-450-763-56320 | Sequence 56320, A |
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| 984 | 34 | 63.0 | 1579 | 6 | US-11-097-143-3498 | Sequence 3498, Ap |
| 985 | 34 | 63.0 | 1679 | 6 | US-11-097-143-8286 | Sequence 8286, Ap |
| 986 | 34 | 63.0 | 1679 | 6 | US-11-097-143-8298 | Sequence 8298, Ap |
| 987 | 34 | 63.0 | 1799 | 4 | US-10-467-163-11 | Sequence 11, Appl |
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| 990 | 34 | 63.0 | 1863 | 3 | US-09-832-292-29 | Sequence 29, Appl |
| 991 | 34 | 63.0 | 1863 | 3 | US-09-930-512-38 | Sequence 38, Appl |
| 992 | 34 | 63.0 | 1863 | 3 | US-09-930-512-39 | Sequence 39, Appl |
| 993 | 34 | 63.0 | 1864 | 3 | US-09-832-292-27 | Sequence 27, Appl |
| 994 | 34 | 63.0 | 1864 | 3 | US-09-930-512-6 | Sequence 6, Appli |
| 995 | 34 | 63.0 | 1864 | 4 | US-10-153-244-9 | Sequence 9, Appli |
| 996 | 34 | 63.0 | 1864 | 5 | US-10-343-903-23 | Sequence 23, Appl |
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| 998 | 34 | 63.0 | 1885 | 4 | US-10-353-690-68 | Sequence 68, Appl |
| 999 | 34 | 63.0 | 1885 | 4 | US-10-423-543-64 | Sequence 64, Appl |
| 1000 | 34 | 63.0 | 1885 | 5 | US-10-753-267-24 | Sequence 24, Appl |

ALIGNMENTS

RESULT 1
US-10-484-063-9
; Sequence 9, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-9

Query Match 100.0%; Score 54; DB 5; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CMSCCRSSR 9
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Db 6 CMSCCRSSR 14

RESULT 2
US-10-938-249-513
; Sequence 513, Application US/10938249
; Publication No. US20050037969A1
; GENERAL INFORMATION:
; APPLICANT: Lu, Peter S.
; APPLICANT: Rabinowitz, Joshua D.
; APPLICANT: Schweizer, Johannes
; APPLICANT: Arbor Vita Corporation
; TITLE OF INVENTION: Molecular Interactions in Hematopoietic
; TITLE OF INVENTION: Cells
; FILE REFERENCE: 020054-001130US
; CURRENT APPLICATION NUMBER: US/10/938,249
; CURRENT FILING DATE: 2004-09-10
; PRIOR APPLICATION NUMBER: US/09/724,553
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: US 60/134,114
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: US 60/134,117
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: US 60/134,118
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: US 60/160,860
; PRIOR FILING DATE: 1999-10-21
; PRIOR APPLICATION NUMBER: US 60/162,498
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 60/170,453
; PRIOR FILING DATE: 1999-12-13
; PRIOR APPLICATION NUMBER: US 60/176,195
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: US 60/182,296
; PRIOR FILING DATE: 2000-02-14
; PRIOR APPLICATION NUMBER: US 60/196,267
; PRIOR FILING DATE: 2000-04-11
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 543
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 513
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HPV16 E6 C-terminal
US-10-938-249-513

Query Match 100.0%; Score 54; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CMSCCRSSR 9
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Db 5 CMSCCRSSR 13

RESULT 3
US-10-476-570-44
; Sequence 44, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 44
; LENGTH: 24
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 135-158
US-10-476-570-44

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  Query Match             100.0%;  Score 54;  DB 4;  Length 24;
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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db          9 CMSCCRSSR 17


RESULT 4
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
;  APPLICANT: Schuler, Gerold
;  APPLICANT:  N.V. Antwerps Innovatiecentrum
;  TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
;  TITLE OF INVENTION:  Polynucleotides by Electroporation
;  FILE REFERENCE: 021505wo/JH/ml
;  CURRENT APPLICATION NUMBER: US/10/177,390
;  CURRENT FILING DATE:  2002-06-20
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-177-390-6

  Query Match             100.0%;  Score 54;  DB 4;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 8.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
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Db        136 CMSCCRSSR 144


RESULT 5
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-484-063-20

  Query Match             100.0%;  Score 54;  DB 5;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 8.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        136 CMSCCRSSR 144


RESULT 6
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-484-063-27

  Query Match             100.0%;  Score 54;  DB 5;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 8.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        136 CMSCCRSSR 144


RESULT 7
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-10-858-384-2

  Query Match             100.0%;  Score 54;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 8.4;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        143 CMSCCRSSR 151


RESULT 8
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
```

```
; GENERAL INFORMATION:
;  APPLICANT: Cuthill, Scott;
;  APPLICANT:  Jackson, Amanda;
;  APPLICANT:  Lewin, David A.;
;  APPLICANT:  Ooi, Chean Eng
;  TITLE OF INVENTION: Complexes and Methods of Using Same
;  FILE REFERENCE: 21402-559
;  CURRENT APPLICATION NUMBER: US/10/367,057
;  CURRENT FILING DATE:  2003-02-14
;  PRIOR APPLICATION NUMBER: 60/256,911
;  PRIOR FILING DATE: 2002-02-14
;  NUMBER OF SEQ ID NOS: 198
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 16
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-367-057-16

  Query Match             100.0%;  Score 54;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 8.4;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        143 CMSCCRSSR 151


RESULT 9
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

  Query Match             100.0%;  Score 54;  DB 6;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 8.4;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        143 CMSCCRSSR 151


RESULT 10
US-10-472-724-2
; Sequence 2, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
;  APPLICANT: Cid-Arregui, Angel
;  APPLICANT:  Zur Hausen, Harald
;  TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
;  FILE REFERENCE: 4121-154
;  CURRENT APPLICATION NUMBER: US/10/472,724
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP02/03271
;  PRIOR FILING DATE: 2002-03-22
;  PRIOR APPLICATION NUMBER: EP 01107271.7
;  PRIOR FILING DATE: 2001-03-23
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
;   LENGTH: 171
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

  Query Match             100.0%;  Score 54;  DB 4;  Length 171;
  Best Local Similarity   100.0%;  Pred. No. 8.9;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        148 CMSCCRSSR 156


RESULT 11
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
;  APPLICANT: KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE: 017753-122
;  CURRENT APPLICATION NUMBER: US/11/072,288
;  CURRENT FILING DATE:  2005-03-07
;  PRIOR APPLICATION NUMBER: US/09/462,993
;  PRIOR FILING DATE: 2000-04-17
;  PRIOR APPLICATION NUMBER: PCT/FR98/01576
;  PRIOR FILING DATE: 1998-07-17
;  PRIOR APPLICATION NUMBER: FR 97/09152
;  PRIOR FILING DATE: 1997-07-18
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

  Query Match             100.0%;  Score 54;  DB 6;  Length 243;
  Best Local Similarity   100.0%;  Pred. No. 12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        166 CMSCCRSSR 174


RESULT 12
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
```

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;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 54;  DB 3;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        143 CMSCCRSSR 151


RESULT 13
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-4

  Query Match             100.0%;  Score 54;  DB 4;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 13;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        249 CMSCCRSSR 257


RESULT 14
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-4

  Query Match             100.0%;  Score 54;  DB 5;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 13;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        249 CMSCCRSSR 257


RESULT 15
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-10

  Query Match             100.0%;  Score 54;  DB 4;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 13;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        268 CMSCCRSSR 276


RESULT 16
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
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;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
;   OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-10

  Query Match             100.0%;  Score 54;  DB 5;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 13;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        268 CMSCCRSSR 276


RESULT 17
US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-6

  Query Match             100.0%;  Score 54;  DB 4;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        249 CMSCCRSSR 257


RESULT 18
US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
;   OTHER INFORMATION: virus type 16)
US-10-899-771-6

  Query Match             100.0%;  Score 54;  DB 5;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        249 CMSCCRSSR 257


RESULT 19
US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-14

  Query Match             100.0%;  Score 54;  DB 4;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        268 CMSCCRSSR 276


RESULT 20
US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
```

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;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
;   OTHER INFORMATION: pneumoniae and E6E7 fusion from Human papilloma
;   OTHER INFORMATION: virus type 16)
US-10-899-771-14

  Query Match             100.0%;  Score 54;  DB 5;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        268 CMSCCRSSR 276


RESULT 21
US-10-484-063-10
; Sequence 10, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-484-063-10

  Query Match             90.7%;  Score 49;  DB 5;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 4.7;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              ||||||||
Db          3 CMSCCRSS 10


RESULT 22
US-10-425-115-214017
; Sequence 214017, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 214017
;   LENGTH: 118
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(118)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_126780C.1.pep
US-10-425-115-214017

  Query Match             75.9%;  Score 41;  DB 4;  Length 118;
  Best Local Similarity   66.7%;  Pred. No. 3e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |:||||  |
Db         68 CLSCCRGLR 76


RESULT 23
US-10-437-963-192283
; Sequence 192283, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 192283
;   LENGTH: 341
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(341)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_88525C.1.pep
US-10-437-963-192283

  Query Match             75.9%;  Score 41;  DB 4;  Length 341;
  Best Local Similarity   75.0%;  Pred. No. 6.7e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              |: |||||
Db          6 CIGCCRSS 13


RESULT 24
US-10-739-930-11071
; Sequence 11071, Application US/10739930
; Publication No. US20040216190A1
; GENERAL INFORMATION:
;  APPLICANT: Kovalic, David K.
;  TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
;  TITLE OF INVENTION:  PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53377)B
;  CURRENT APPLICATION NUMBER: US/10/739,930
```

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;  CURRENT FILING DATE:  2003-12-18
;  NUMBER OF SEQ ID NOS: 11088
; SEQ ID NO 11071
;   LENGTH: 377
;   TYPE: PRT
;   ORGANISM: Triticum aestivum
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(377)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: TRIAE-23APR03-C98_877.p
US-10-739-930-11071

  Query Match             75.9%;  Score 41;  DB 5;  Length 377;
  Best Local Similarity   100.0%;  Pred. No. 7.2e+02;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCR 6
              ||||||
Db        317 CMSCCR 322


RESULT 25
US-10-425-114-38701
; Sequence 38701, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 38701
;   LENGTH: 747
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: LIB3093-024-F2_FLI.pep
US-10-425-114-38701

  Query Match             75.9%;  Score 41;  DB 4;  Length 747;
  Best Local Similarity   66.7%;  Pred. No. 1.2e+03;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |:||||  |
Db        166 CLSCCRDLR 174


RESULT 26
US-10-425-114-38290
; Sequence 38290, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 38290
;   LENGTH: 817
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: LIB3170-086-H2_FLI.pep
US-10-425-114-38290

  Query Match             75.9%;  Score 41;  DB 4;  Length 817;
  Best Local Similarity   66.7%;  Pred. No. 1.3e+03;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |:||||  |
Db        360 CLSCCRDLR 368


RESULT 27
US-10-424-599-210074
; Sequence 210074, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 210074
;   LENGTH: 941
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(941)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_31725C.1.pep
US-10-424-599-210074

  Query Match             75.9%;  Score 41;  DB 4;  Length 941;
  Best Local Similarity   66.7%;  Pred. No. 1.4e+03;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |:||||  |
Db        360 CLSCCRDLR 368


RESULT 28
US-10-250-304A-2
; Sequence 2, Application US/10250304A
; Publication No. US20040136958A1
; GENERAL INFORMATION:
;  APPLICANT: WADELL, Goran
;  APPLICANT:  MEI, Ya-Fang
;  APPLICANT:  SEGERMAN, Anna
;  APPLICANT:  SKOG, Johan
;  APPLICANT:  LINDMAN, Kristina
;  TITLE OF INVENTION: Viral vectors for gene therapy
;  FILE REFERENCE: MH46489
;  CURRENT APPLICATION NUMBER: US/10/250,304A
;  CURRENT FILING DATE:  2003-06-30
;  PRIOR APPLICATION NUMBER: SE 0100035-5
;  PRIOR FILING DATE: 2001-01-04
;  PRIOR APPLICATION NUMBER: US 60/260,358
;  PRIOR FILING DATE: 2001-01-08
;  NUMBER OF SEQ ID NOS: 2
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;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 11300
;   TYPE: PRT
;   ORGANISM: Adenovirus serotype 11
US-10-250-304A-2

  Query Match             75.9%;  Score 41;  DB 4;  Length 11300;
  Best Local Similarity   66.7%;  Pred. No. 9e+03;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              | |||||  :
Db       4678 CYSCCRSGK 4686


RESULT 29
US-09-397-945-213
; Sequence 213, Application US/09397945
; Publication No. US20030065139A1
; GENERAL INFORMATION:
;  APPLICANT: Human Genome Sciences, Inc. et al.
;  TITLE OF INVENTION: 95 Human secreted proteins
;  FILE REFERENCE: PZ027P1
;  CURRENT APPLICATION NUMBER: US/09/397,945
;  CURRENT FILING DATE:  1999-09-17
;  PRIOR APPLICATION NUMBER: PCT/US99/05804
;  PRIOR FILING DATE: 1999-03-18
;  PRIOR APPLICATION NUMBER: 60/078,566
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,576
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,573
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,574
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,579
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/080,314
;  PRIOR FILING DATE: 1998-04-01
;  PRIOR APPLICATION NUMBER: 60/080,312
;  PRIOR FILING DATE: 1998-04-01
;  PRIOR APPLICATION NUMBER: 60/078,578
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,581
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,577
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,563
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/080,313
;  PRIOR FILING DATE: 1998-04-01
;  NUMBER OF SEQ ID NOS: 470
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 213
;   LENGTH: 43
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-397-945-213

  Query Match             74.1%;  Score 40;  DB 3;  Length 43;
  Best Local Similarity   100.0%;  Pred. No. 1.9e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 SCCRSSR 9
              |||||||
Db         10 SCCRSSR 16


RESULT 30
US-10-653-595-213
; Sequence 213, Application US/10653595
; Publication No. US20040048304A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et. al.
;  TITLE OF INVENTION: 95 Human secreted proteins
;  FILE REFERENCE: PZ027P1C1
;  CURRENT APPLICATION NUMBER: US/10/653,595
;  CURRENT FILING DATE:  2003-09-03
;  PRIOR APPLICATION NUMBER: US 09/397945
;  PRIOR FILING DATE: 1999-09-17
;  PRIOR APPLICATION NUMBER: PCT/US99/05804
;  PRIOR FILING DATE: 1999-03-18
;  PRIOR APPLICATION NUMBER: 60/078,566
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,576
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,573
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,574
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,579
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/080,314
;  PRIOR FILING DATE: 1998-04-01
;  PRIOR APPLICATION NUMBER: 60/080,312
;  PRIOR FILING DATE: 1998-04-01
;  PRIOR APPLICATION NUMBER: 60/078,578
;  PRIOR FILING DATE: 1998-03-19
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 470
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 213
;   LENGTH: 43
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-653-595-213

  Query Match             74.1%;  Score 40;  DB 4;  Length 43;
  Best Local Similarity   100.0%;  Pred. No. 1.9e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 SCCRSSR 9
              |||||||
Db         10 SCCRSSR 16


RESULT 31
US-09-864-761-36259
; Sequence 36259, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
;  APPLICANT: Penn, Sharron G.
;  APPLICANT:  Rank, David R.
;  APPLICANT:  Hanzel, David K.
;  APPLICANT:  Chen, Wensheng
;  TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
;  TITLE OF INVENTION:  GENE EXPRESSION ANALYSIS BY MICROARRAY
;  FILE REFERENCE: Aeomica-X-1
;  CURRENT APPLICATION NUMBER: US/09/864,761
;  CURRENT FILING DATE:  2001-05-23
;  PRIOR APPLICATION NUMBER: US 60/180,312
;  PRIOR FILING DATE: 2000-02-04
;  PRIOR APPLICATION NUMBER: US 60/207,456
;  PRIOR FILING DATE: 2000-05-26
;  PRIOR APPLICATION NUMBER: US 09/632,366
;  PRIOR FILING DATE: 2000-08-03
;  PRIOR APPLICATION NUMBER: GB 24263.6
;  PRIOR FILING DATE: 2000-10-04
;  PRIOR APPLICATION NUMBER: US 60/236,359
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: PCT/US01/00666
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00667
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00664
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;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00669
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00665
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00668
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00663
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00662
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00661
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00670
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: US 60/234,687
;  PRIOR FILING DATE: 2000-09-21
;  PRIOR APPLICATION NUMBER: US 09/608,408
;  PRIOR FILING DATE: 2000-06-30
;  PRIOR APPLICATION NUMBER: US 09/774,203
;  PRIOR FILING DATE: 2001-01-29
;  NUMBER OF SEQ ID NOS: 49117
;  SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 36259
;   LENGTH: 61
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   OTHER INFORMATION: MAP TO AF134726.1
;   OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 6.1
;   OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL =  20
;   OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL =  87
;   OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL =  15
;   OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 4.9
;   OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 7.9
;   OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL =  11
;   OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL =   7
;   OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 3.8
;   OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 3.7
;   OTHER INFORMATION: EST_HUMAN HIT: AW630923.1, EVALUE 7.00e-22
;   OTHER INFORMATION: SWISSPROT HIT: Q06428, EVALUE 1.60e+00
US-09-864-761-36259

  Query Match             74.1%;  Score 40;  DB 3;  Length 61;
  Best Local Similarity   75.0%;  Pred. No. 2.5e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              | ||||:|
Db         49 CRSCCRTS 56


RESULT 32
US-10-450-763-48672
; Sequence 48672, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
;  APPLICANT: Hyseq, Inc
;  TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
;  FILE REFERENCE: 790CIP3/US
;  CURRENT APPLICATION NUMBER: US/10/450,763
;  CURRENT FILING DATE:  2003-06-11
;  PRIOR APPLICATION NUMBER: PCT/US01/08631
;  PRIOR FILING DATE: 2001-03-30
;  PRIOR APPLICATION NUMBER: 09/540,217
;  PRIOR FILING DATE: 2000-03-31
;  PRIOR APPLICATION NUMBER: 09/649,167
;  PRIOR FILING DATE: 2000-08-23
;  NUMBER OF SEQ ID NOS: 60736
;  SOFTWARE: Custom
; SEQ ID NO 48672
;   LENGTH: 88
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)...(88)
;   OTHER INFORMATION: Xaa = X or * as defined in Table 2
US-10-450-763-48672

  Query Match             74.1%;  Score 40;  DB 5;  Length 88;
  Best Local Similarity   75.0%;  Pred. No. 3.3e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              | ||||:
Db         50 CSSCCRST 57


RESULT 33
US-09-397-945-211
; Sequence 211, Application US/09397945
; Publication No. US20030065139A1
; GENERAL INFORMATION:
;  APPLICANT: Human Genome Sciences, Inc. et al.
;  TITLE OF INVENTION: 95 Human secreted proteins
;  FILE REFERENCE: PZ027P1
;  CURRENT APPLICATION NUMBER: US/09/397,945
;  CURRENT FILING DATE:  1999-09-17
;  PRIOR APPLICATION NUMBER: PCT/US99/05804
;  PRIOR FILING DATE: 1999-03-18
;  PRIOR APPLICATION NUMBER: 60/078,566
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,576
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,573
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,574
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,579
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/080,314
;  PRIOR FILING DATE: 1998-04-01
;  PRIOR APPLICATION NUMBER: 60/080,312
;  PRIOR FILING DATE: 1998-04-01
;  PRIOR APPLICATION NUMBER: 60/078,578
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,581
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,577
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,563
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/080,313
;  PRIOR FILING DATE: 1998-04-01
;  NUMBER OF SEQ ID NOS: 470
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 211
;   LENGTH: 137
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (10)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-397-945-211

  Query Match             74.1%;  Score 40;  DB 3;  Length 137;
  Best Local Similarity   100.0%;  Pred. No. 4.6e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 SCCRSSR 9
              |||||||
Db         51 SCCRSSR 57
```

```
RESULT 34
US-10-653-595-211
; Sequence 211, Application US/10653595
; Publication No. US20040048304A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et. al.
;  TITLE OF INVENTION: 95 Human secreted proteins
;  FILE REFERENCE: PZ027P1C1
;  CURRENT APPLICATION NUMBER: US/10/653,595
;  CURRENT FILING DATE:  2003-09-03
;  PRIOR APPLICATION NUMBER: US 09/397945
;  PRIOR FILING DATE: 1999-09-17
;  PRIOR APPLICATION NUMBER: PCT/US99/05804
;  PRIOR FILING DATE: 1999-03-18
;  PRIOR APPLICATION NUMBER: 60/078,566
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,576
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,573
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,574
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,579
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/080,314
;  PRIOR FILING DATE: 1998-04-01
;  PRIOR APPLICATION NUMBER: 60/080,312
;  PRIOR FILING DATE: 1998-04-01
;  PRIOR APPLICATION NUMBER: 60/078,578
;  PRIOR FILING DATE: 1998-03-19
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 470
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 211
;   LENGTH: 137
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (10)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-653-595-211

  Query Match             74.1%;  Score 40;  DB 4;  Length 137;
  Best Local Similarity   100.0%;  Pred. No. 4.6e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 SCCRSSR 9
              |||||||
Db         51 SCCRSSR 57


RESULT 35
US-10-424-599-214145
; Sequence 214145, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 214145
;   LENGTH: 210
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_353C.1.pep
US-10-424-599-214145

  Query Match             74.1%;  Score 40;  DB 4;  Length 210;
  Best Local Similarity   75.0%;  Pred. No. 6.3e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              |:||| ||
Db        126 CLSCCSSS 133


RESULT 36
US-11-097-143-7383
; Sequence 7383, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
;  APPLICANT: Venter, J. Craig
;  APPLICANT:  et al.
;  TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
;  TITLE OF INVENTION:  ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
;  TITLE OF INVENTION:  DROSOPHILA GENES.
;  FILE REFERENCE: CL000728
;  CURRENT APPLICATION NUMBER: US/11/097,143
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: 60/157,832
;  PRIOR FILING DATE: 1999-10-05
;  PRIOR APPLICATION NUMBER: 60/160,191
;  PRIOR FILING DATE: 1999-10-19
;  PRIOR APPLICATION NUMBER: 60/161,932
;  PRIOR FILING DATE: 1999-10-28
;  PRIOR APPLICATION NUMBER: 60/164,769
;  PRIOR FILING DATE: 1999-11-12
;  PRIOR APPLICATION NUMBER: 60/173,383
;  PRIOR FILING DATE: 1999-12-28
;  PRIOR APPLICATION NUMBER: 60/175,693
;  PRIOR FILING DATE: 2000-01-12
;  PRIOR APPLICATION NUMBER: 60/184,831
;  PRIOR FILING DATE: 2000-02-24
;  PRIOR APPLICATION NUMBER: 60/191,637
;  PRIOR FILING DATE: 2000-03-23
;  NUMBER OF SEQ ID NOS: 43008
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7383
;   LENGTH: 239
;   TYPE: PRT
;   ORGANISM: DROSOPHILA
US-11-097-143-7383

  Query Match             74.1%;  Score 40;  DB 6;  Length 239;
  Best Local Similarity   66.7%;  Pred. No. 6.9e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              ||:|| | |
Db         80 CMACCESVR 88


RESULT 37
US-10-425-114-65786
; Sequence 65786, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
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;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 65786
;   LENGTH: 245
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: LIB3245-175-H1_FLI.pep
US-10-425-114-65786

  Query Match             74.1%;  Score 40;  DB 4;  Length 245;
  Best Local Similarity   66.7%;  Pred. No. 7e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              | :||| ||
Db          1 CRTCCRCSR 9


RESULT 38
US-10-108-605-249
; Sequence 249, Application US/10108605
; Publication No. US20020160934A1
; GENERAL INFORMATION:
;  APPLICANT: Broadus, Julie
;  APPLICANT:  Stam, Lynn
;  APPLICANT:  Bachmann, Jane
;  APPLICANT:  Kamdar, Kim
;  TITLE OF INVENTION: NUCLEIC ACID SEQUENCES FROM DROSOPHILA MELANOGASTER THAT ENCODE
;  TITLE OF INVENTION:  PROTEINS ESSENTIAL FOR LARVAL VIABILITY AND USES THEREOF
;  FILE REFERENCE: 31133B
;  CURRENT APPLICATION NUMBER: US/10/108,605
;  CURRENT FILING DATE:  2002-03-27
;  PRIOR APPLICATION NUMBER: US 09/761,142
;  PRIOR FILING DATE: 2001-01-16
;  PRIOR APPLICATION NUMBER: US 60/176,418
;  PRIOR FILING DATE: 2000-01-14
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 249
;   LENGTH: 1345
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-10-108-605-249

  Query Match             74.1%;  Score 40;  DB 4;  Length 1345;
  Best Local Similarity   66.7%;  Pred. No. 2.5e+03;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              | |||||  :
Db        798 CPSCCRSGK 806


RESULT 39
US-10-263-929-149
; Sequence 149, Application US/10263929
; Publication No. US20040067535A1
; GENERAL INFORMATION:
;  APPLICANT: Kim, Jaeseob
;  APPLICANT:  Galant, Ron
;  TITLE OF INVENTION: Alzheimer's Disease Linked Genes
;  FILE REFERENCE: LSD-07417
;  CURRENT APPLICATION NUMBER: US/10/263,929
;  CURRENT FILING DATE:  2002-10-03
;  NUMBER OF SEQ ID NOS: 213
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 149
;   LENGTH: 1368
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-10-263-929-149

  Query Match             74.1%;  Score 40;  DB 4;  Length 1368;
  Best Local Similarity   66.7%;  Pred. No. 2.5e+03;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              | |||||  :
Db        798 CPSCCRSGK 806


RESULT 40
US-10-494-921-57
; Sequence 57, Application US/10494921
; Publication No. US20050059618A1
; GENERAL INFORMATION:
;  APPLICANT: Eulenberg, Karsten
;  APPLICANT:  Steuernagel, Arnd
;  APPLICANT:  Haeder, Thomas
;  APPLICANT:  Broenner, Guenter
;  TITLE OF INVENTION: Men Protein, GST2, Rab-RP1, Csp, F-box Protein Lilina/FBL7,
;  TITLE OF INVENTION:  ABC50, Coronin, Sec61 alpha, or VhaPPA1-1, or Homologous Proteins
;  TITLE OF INVENTION:  Involved in the Regulation of Energy Homeostasis
;  FILE REFERENCE: 2923-616
;  CURRENT APPLICATION NUMBER: US/10/494,921
;  CURRENT FILING DATE:  2004-05-07
;  PRIOR APPLICATION NUMBER: PCT/EP02/12518
;  PRIOR FILING DATE: 2002-11-08
;  PRIOR APPLICATION NUMBER: EP  02 000 819.9
;  PRIOR FILING DATE: 2002-01-14
;  PRIOR APPLICATION NUMBER: EP  01 130 310.4
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: EP  01 129 727.2
;  PRIOR FILING DATE: 2001-12-13
;  PRIOR APPLICATION NUMBER: EP  01 128 254.8
;  PRIOR FILING DATE: 2001-11-28
;  PRIOR APPLICATION NUMBER: EP  01 127 959.3
;  PRIOR FILING DATE: 2001-11-23
;  PRIOR APPLICATION NUMBER: EP  01 127 960.1
;  PRIOR FILING DATE: 2001-11-23
;  PRIOR APPLICATION NUMBER: EP  01 127 669.8
;  PRIOR FILING DATE: 2001-11-20
;  PRIOR APPLICATION NUMBER: EP  01 126 967.7
;  PRIOR FILING DATE: 2001-11-13
;  PRIOR APPLICATION NUMBER: EP  01 126 804.2
;  PRIOR FILING DATE: 2001-11-09
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 67
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 57
;   LENGTH: 1368
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-10-494-921-57

  Query Match             74.1%;  Score 40;  DB 5;  Length 1368;
  Best Local Similarity   66.7%;  Pred. No. 2.5e+03;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              | |||||  :
Db        798 CPSCCRSGK 806


RESULT 41
US-11-097-143-23016
; Sequence 23016, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
;  APPLICANT: Venter, J. Craig
;  APPLICANT:  et al.
;  TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
;  TITLE OF INVENTION:  ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
;  TITLE OF INVENTION:  DROSOPHILA GENES.
;  FILE REFERENCE: CL000728
;  CURRENT APPLICATION NUMBER: US/11/097,143
```

; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 23016
; LENGTH: 1368
; TYPE: PRT
; ORGANISM: DROSOPHILA
US-11-097-143-23016

Query Match 74.1%; Score 40; DB 6; Length 1368;
Best Local Similarity 66.7%; Pred. No. 2.5e+03;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CMSCCRSSR 9
| ||||| :
Db 798 CPSCCRSGK 806

RESULT 42
US-10-050-882-89
; Sequence 89, Application US/10050882
; Publication No. US20030104400A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: 27 Human secreted proteins
; FILE REFERENCE: PZ038P1
; CURRENT APPLICATION NUMBER: US/10/050,882
; CURRENT FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: 09/661,453
; PRIOR FILING DATE: 2000-09-13
; PRIOR APPLICATION NUMBER: PCT/US00/06783
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/125,055
; PRIOR FILING DATE: 1999-03-18
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 89
; LENGTH: 50
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-050-882-89

Query Match 72.2%; Score 39; DB 4; Length 50;
Best Local Similarity 66.7%; Pred. No. 2.9e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CMSCCRSSR 9
|::|| |||
Db 21 CVACCWSSR 29

RESULT 43
US-10-963-903-89
; Sequence 89, Application US/10963903
; Publication No. US20050239099A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: 27 Human secreted proteins
; FILE REFERENCE: PZ038P1C2
; CURRENT APPLICATION NUMBER: US/10/963,903
; CURRENT FILING DATE: 2004-10-14
; PRIOR APPLICATION NUMBER: US 10/050,882
; PRIOR FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: US 09/661,453
; PRIOR FILING DATE: 2000-09-13
; PRIOR APPLICATION NUMBER: PCT/US00/06783
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: US 60/125,055
; PRIOR FILING DATE: 1999-03-18
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 89
; LENGTH: 50
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-963-903-89

Query Match 72.2%; Score 39; DB 5; Length 50;
Best Local Similarity 66.7%; Pred. No. 2.9e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CMSCCRSSR 9
|::|| |||
Db 21 CVACCWSSR 29

RESULT 44
US-10-808-187-1685
; Sequence 1685, Application US/10808187
; Publication No. US20050009009A1
; GENERAL INFORMATION:
; APPLICANT: PEIRIS, JOSEPH S. M.
; APPLICANT: YUEN, KWOK YUNG
; APPLICANT: POON, LIT MAN
; APPLICANT: GUAN, YI
; APPLICANT: CHAN, KWOK HUNG
; APPLICANT: NICHOLLS, JOHN
; TITLE OF INVENTION: A DIAGNOSTIC ASSAY FOR THE HUMAN VIRUS CAUSING SEVERE ACUTE
; TITLE OF INVENTION: RESPIRATORY SYNDROME (SARS)
; FILE REFERENCE: V9661.0078
; CURRENT APPLICATION NUMBER: US/10/808,187
; CURRENT FILING DATE: 2004-03-24
; PRIOR APPLICATION NUMBER: 60/457,031
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: 60/457,730
; PRIOR FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: 60/459,931
; PRIOR FILING DATE: 2003-04-02
; PRIOR APPLICATION NUMBER: 60/460,357
; PRIOR FILING DATE: 2003-04-03
; PRIOR APPLICATION NUMBER: 60/461,265
; PRIOR FILING DATE: 2003-04-08
; PRIOR APPLICATION NUMBER: 60/462,805
; PRIOR FILING DATE: 2003-04-14
; PRIOR APPLICATION NUMBER: 60/468,139
; PRIOR FILING DATE: 2003-05-05
; PRIOR APPLICATION NUMBER: 60/464,886
; PRIOR FILING DATE: 2003-04-23
; PRIOR APPLICATION NUMBER: 60/471,200
; PRIOR FILING DATE: 2003-05-16
; NUMBER OF SEQ ID NOS: 2476
; SOFTWARE: PatentIn ver. 3.2
; SEQ ID NO 1685
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Human severe acute respiratory system virus
US-10-808-187-1685

Query Match 72.2%; Score 39; DB 5; Length 67;
Best Local Similarity 71.4%; Pred. No. 3.6e+02;

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  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRS 7
              ||:|||:
Db         53 CMNCCRN 59


RESULT 45
US-10-807-807-1685
; Sequence 1685, Application US/10807807
; Publication No. US20050181357A1
; GENERAL INFORMATION:
;  APPLICANT: LEUNG, FREDERICK C.
;  APPLICANT:  PEIRIS, JOSEPH S. M.
;  APPLICANT:  YUEN, KWOK YUNG
;  APPLICANT:  POON, LIT MAN
;  APPLICANT:  GUAN, YI
;  APPLICANT:  CHAN, KWOK HUNG
;  APPLICANT:  NICHOLLS, JOHN M.
;  TITLE OF INVENTION: A HIGH-THROUGHPUT DIAGNOSTIC ASSAY FOR THE HUMAN VIRUS
;  TITLE OF INVENTION:  CAUSING SEVERE ACUTE RESPIRATORY SYNDROME (SARS)
;  FILE REFERENCE: V9661.0077
;  CURRENT APPLICATION NUMBER: US/10/807,807
;  CURRENT FILING DATE:  2004-03-24
;  PRIOR APPLICATION NUMBER: 60/457,031
;  PRIOR FILING DATE: 2003-03-24
;  PRIOR APPLICATION NUMBER: 60/457,730
;  PRIOR FILING DATE: 2003-03-26
;  PRIOR APPLICATION NUMBER: 60/459,931
;  PRIOR FILING DATE: 2003-04-02
;  PRIOR APPLICATION NUMBER: 60/460,357
;  PRIOR FILING DATE: 2003-04-03
;  PRIOR APPLICATION NUMBER: 60/461,265
;  PRIOR FILING DATE: 2003-04-08
;  PRIOR APPLICATION NUMBER: 60/462,805
;  PRIOR FILING DATE: 2003-04-14
;  PRIOR APPLICATION NUMBER: 60/464,886
;  PRIOR FILING DATE: 2003-04-23
;  PRIOR APPLICATION NUMBER: 60/465,738
;  PRIOR FILING DATE: 2003-04-25
;  PRIOR APPLICATION NUMBER: 60/470,935
;  PRIOR FILING DATE: 2003-05-14
;  NUMBER OF SEQ ID NOS: 2487
;  SOFTWARE: PatentIn ver. 3.2
; SEQ ID NO 1685
;   LENGTH: 67
;   TYPE: PRT
;   ORGANISM: Human severe acute respiratory system virus
US-10-807-807-1685

  Query Match             72.2%;  Score 39;  DB 5;  Length 67;
  Best Local Similarity   71.4%;  Pred. No. 3.6e+02;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRS 7
              ||:|||:
Db         53 CMNCCRN 59


RESULT 46
US-10-141-645-72
; Sequence 72, Application US/10141645
; Publication No. US20030144184A1
; GENERAL INFORMATION:
;  APPLICANT: Robert Lehrer
;  APPLICANT:  Alan Waring
;  APPLICANT:  Alexander Cole
;  APPLICANT:  Teresa Hong
;  TITLE OF INVENTION: Retrocyclins - Antiviral and
;  TITLE OF INVENTION:  Antimicrobial Peptides
;  FILE REFERENCE: UCLA-001CIP
;  CURRENT APPLICATION NUMBER: US/10/141,645
;  CURRENT FILING DATE:  2002-05-06
;  PRIOR APPLICATION NUMBER: 60/284,855
;  PRIOR FILING DATE: 2001-04-18
;  PRIOR APPLICATION NUMBER: Unassigned
;  PRIOR FILING DATE: 2002-04-18
;  NUMBER OF SEQ ID NOS: 125
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 72
;   LENGTH: 141
;   TYPE: PRT
;   ORGANISM: Rhesus monkey
;   FEATURE:
;   NAME/KEY: VARIANT
;   LOCATION: 113
;   OTHER INFORMATION: Xaa = Any Amino Acid
US-10-141-645-72

  Query Match             72.2%;  Score 39;  DB 4;  Length 141;
  Best Local Similarity   66.7%;  Pred. No. 6.3e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |  |||:||
Db         92 CRICCRASR 100


RESULT 47
US-10-141-645-73
; Sequence 73, Application US/10141645
; Publication No. US20030144184A1
; GENERAL INFORMATION:
;  APPLICANT: Robert Lehrer
;  APPLICANT:  Alan Waring
;  APPLICANT:  Alexander Cole
;  APPLICANT:  Teresa Hong
;  TITLE OF INVENTION: Retrocyclins - Antiviral and
;  TITLE OF INVENTION:  Antimicrobial Peptides
;  FILE REFERENCE: UCLA-001CIP
;  CURRENT APPLICATION NUMBER: US/10/141,645
;  CURRENT FILING DATE:  2002-05-06
;  PRIOR APPLICATION NUMBER: 60/284,855
;  PRIOR FILING DATE: 2001-04-18
;  PRIOR APPLICATION NUMBER: Unassigned
;  PRIOR FILING DATE: 2002-04-18
;  NUMBER OF SEQ ID NOS: 125
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 73
;   LENGTH: 141
;   TYPE: PRT
;   ORGANISM: Pig-tailed macaque
;   FEATURE:
;   NAME/KEY: VARIANT
;   LOCATION: 113
;   OTHER INFORMATION: Xaa = Any Amino Acid
US-10-141-645-73

  Query Match             72.2%;  Score 39;  DB 4;  Length 141;
  Best Local Similarity   66.7%;  Pred. No. 6.3e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |  |||:||
Db         92 CRICCRASR 100


RESULT 48
US-10-808-187-193
; Sequence 193, Application US/10808187
; Publication No. US20050009009A1
; GENERAL INFORMATION:
;  APPLICANT: PEIRIS, JOSEPH S. M.
;  APPLICANT:  YUEN, KWOK YUNG
;  APPLICANT:  POON, LIT MAN
;  APPLICANT:  GUAN, YI
```

```
;  APPLICANT:  CHAN, KWOK HUNG
;  APPLICANT:  NICHOLLS, JOHN
;  TITLE OF INVENTION: A DIAGNOSTIC ASSAY FOR THE HUMAN VIRUS CAUSING SEVERE ACUTE
;  TITLE OF INVENTION:  RESPIRATORY SYNDROME (SARS)
;  FILE REFERENCE: V9661.0078
;  CURRENT APPLICATION NUMBER: US/10/808,187
;  CURRENT FILING DATE:  2004-03-24
;  PRIOR APPLICATION NUMBER: 60/457,031
;  PRIOR FILING DATE: 2003-03-24
;  PRIOR APPLICATION NUMBER: 60/457,730
;  PRIOR FILING DATE: 2003-03-26
;  PRIOR APPLICATION NUMBER: 60/459,931
;  PRIOR FILING DATE: 2003-04-02
;  PRIOR APPLICATION NUMBER: 60/460,357
;  PRIOR FILING DATE: 2003-04-03
;  PRIOR APPLICATION NUMBER: 60/461,265
;  PRIOR FILING DATE: 2003-04-08
;  PRIOR APPLICATION NUMBER: 60/462,805
;  PRIOR FILING DATE: 2003-04-14
;  PRIOR APPLICATION NUMBER: 60/468,139
;  PRIOR FILING DATE: 2003-05-05
;  PRIOR APPLICATION NUMBER: 60/464,886
;  PRIOR FILING DATE: 2003-04-23
;  PRIOR APPLICATION NUMBER: 60/471,200
;  PRIOR FILING DATE: 2003-05-16
;  NUMBER OF SEQ ID NOS: 2476
;  SOFTWARE: PatentIn ver. 3.2
; SEQ ID NO 193
;   LENGTH: 45
;   TYPE: PRT
;   ORGANISM: Human severe acute respiratory system virus
US-10-808-187-193

  Query Match             70.4%;  Score 38;  DB 5;  Length 45;
  Best Local Similarity   66.7%;  Pred. No. 3.6e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |:||| | |
Db         30 CISCCFSER 38


RESULT 49
US-10-807-807-193
; Sequence 193, Application US/10807807
; Publication No. US20050181357A1
; GENERAL INFORMATION:
;  APPLICANT: LEUNG, FREDERICK C.
;  APPLICANT:  PEIRIS, JOSEPH S. M.
;  APPLICANT:  YUEN, KWOK YUNG
;  APPLICANT:  POON, LIT MAN
;  APPLICANT:  GUAN, YI
;  APPLICANT:  CHAN, KWOK HUNG
;  APPLICANT:  NICHOLLS, JOHN M.
;  TITLE OF INVENTION: A HIGH-THROUGHPUT DIAGNOSTIC ASSAY FOR THE HUMAN VIRUS
;  TITLE OF INVENTION:  CAUSING SEVERE ACUTE RESPIRATORY SYNDROME (SARS)
;  FILE REFERENCE: V9661.0077
;  CURRENT APPLICATION NUMBER: US/10/807,807
;  CURRENT FILING DATE:  2004-03-24
;  PRIOR APPLICATION NUMBER: 60/457,031
;  PRIOR FILING DATE: 2003-03-24
;  PRIOR APPLICATION NUMBER: 60/457,730
;  PRIOR FILING DATE: 2003-03-26
;  PRIOR APPLICATION NUMBER: 60/459,931
;  PRIOR FILING DATE: 2003-04-02
;  PRIOR APPLICATION NUMBER: 60/460,357
;  PRIOR FILING DATE: 2003-04-03
;  PRIOR APPLICATION NUMBER: 60/461,265
;  PRIOR FILING DATE: 2003-04-08
;  PRIOR APPLICATION NUMBER: 60/462,805
;  PRIOR FILING DATE: 2003-04-14
;  PRIOR APPLICATION NUMBER: 60/464,886
;  PRIOR FILING DATE: 2003-04-23
;  PRIOR APPLICATION NUMBER: 60/465,738
;  PRIOR FILING DATE: 2003-04-25
;  PRIOR APPLICATION NUMBER: 60/470,935
;  PRIOR FILING DATE: 2003-05-14
;  NUMBER OF SEQ ID NOS: 2487
;  SOFTWARE: PatentIn ver. 3.2
; SEQ ID NO 193
;   LENGTH: 45
;   TYPE: PRT
;   ORGANISM: Human severe acute respiratory system virus
US-10-807-807-193

  Query Match             70.4%;  Score 38;  DB 5;  Length 45;
  Best Local Similarity   66.7%;  Pred. No. 3.6e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |:||| | |
Db         30 CISCCFSER 38


RESULT 50
US-10-424-599-202673
; Sequence 202673, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 202673
;   LENGTH: 70
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_25038C.1.pep
US-10-424-599-202673

  Query Match             70.4%;  Score 38;  DB 4;  Length 70;
  Best Local Similarity   62.5%;  Pred. No. 5e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              |: |||:|
Db         34 CLCCCRTS 41


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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:46:05 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-56
Perfect score: 54
Sequence: 1 CMSCCRSSR 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_New:*
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2: /SIDS5/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
3: /SIDS5/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
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8: /SIDS5/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
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10: /SIDS5/ptodata/1/pubpaa/US11_NEW_PUB.pep:*
11: /SIDS5/ptodata/1/pubpaa/US11_NEW_PUB.pep1:*
12: /SIDS5/ptodata/1/pubpaa/US60_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
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| 3 | 54 | 100.0 | 248 | 9 | US-10-530-253-1 | Sequence 1, Appli |
| 4 | 54 | 100.0 | 248 | 9 | US-10-530-253-3 | Sequence 3, Appli |
| 5 | 54 | 100.0 | 248 | 9 | US-10-530-253-5 | Sequence 5, Appli |
| 6 | 54 | 100.0 | 248 | 9 | US-10-530-253-7 | Sequence 7, Appli |
| 7 | 54 | 100.0 | 248 | 9 | US-10-530-253-9 | Sequence 9, Appli |
| 8 | 54 | 100.0 | 248 | 9 | US-10-530-253-11 | Sequence 11, Appl |
| 9 | 54 | 100.0 | 256 | 11 | US-11-192-923A-2 | Sequence 2, Appli |
| 10 | 45 | 83.3 | 10 | 9 | US-10-530-061-514 | Sequence 514, App |
| 11 | 42 | 77.8 | 10 | 9 | US-10-530-061-513 | Sequence 513, App |
| 12 | 41 | 75.9 | 10 | 9 | US-10-530-061-511 | Sequence 511, App |
| 13 | 41 | 75.9 | 204 | 11 | US-11-096-568A-26773 | Sequence 26773, A |
| 14 | 41 | 75.9 | 251 | 11 | US-11-096-568A-1257 | Sequence 1257, Ap |
| 15 | 41 | 75.9 | 251 | 11 | US-11-096-568A-1259 | Sequence 1259, Ap |
| 16 | 41 | 75.9 | 280 | 11 | US-11-096-568A-1256 | Sequence 1256, Ap |
| 17 | 40 | 74.1 | 9 | 9 | US-10-530-061-606 | Sequence 606, App |
| 18 | 40 | 74.1 | 10 | 9 | US-10-530-061-516 | Sequence 516, App |
| 19 | 39 | 72.2 | 67 | 11 | US-11-004-399-2378 | Sequence 2378, Ap |
| 20 | 39 | 72.2 | 141 | 9 | US-10-982-145-72 | Sequence 72, Appl |
| 21 | 39 | 72.2 | 141 | 9 | US-10-982-145-73 | Sequence 73, Appl |
| 22 | 38 | 70.4 | 10 | 9 | US-10-530-061-512 | Sequence 512, App |
| 23 | 38 | 70.4 | 45 | 11 | US-11-004-399-886 | Sequence 886, App |
| 24 | 37 | 68.5 | 95 | 9 | US-10-644-807-200 | Sequence 200, App |
| 25 | 37 | 68.5 | 95 | 9 | US-10-644-807-283 | Sequence 283, App |
| 26 | 37 | 68.5 | 222 | 11 | US-11-087-099-8091 | Sequence 8091, Ap |
| 27 | 37 | 68.5 | 374 | 11 | US-11-087-099-1572 | Sequence 1572, Ap |
| 28 | 37 | 68.5 | 591 | 11 | US-11-018-868-136 | Sequence 136, App |
| 29 | 36 | 66.7 | 69 | 11 | US-11-096-568A-20238 | Sequence 20238, A |
| 30 | 36 | 66.7 | 79 | 11 | US-11-096-568A-20237 | Sequence 20237, A |
| 31 | 36 | 66.7 | 522 | 11 | US-11-079-463-7574 | Sequence 7574, Ap |
| 32 | 35 | 64.8 | 20 | 11 | US-11-139-041-356 | Sequence 356, App |
| 33 | 35 | 64.8 | 20 | 11 | US-11-139-041-357 | Sequence 357, App |
| 34 | 35 | 64.8 | 20 | 11 | US-11-139-041-363 | Sequence 363, App |
| 35 | 35 | 64.8 | 20 | 11 | US-11-139-041-364 | Sequence 364, App |
| 36 | 35 | 64.8 | 20 | 11 | US-11-139-041-365 | Sequence 365, App |
| 37 | 35 | 64.8 | 20 | 11 | US-11-139-041-371 | Sequence 371, App |
| 38 | 35 | 64.8 | 20 | 11 | US-11-139-041-372 | Sequence 372, App |
| 39 | 35 | 64.8 | 33 | 11 | US-11-139-041-426 | Sequence 426, App |
| 40 | 35 | 64.8 | 33 | 11 | US-11-139-041-427 | Sequence 427, App |
| 41 | 35 | 64.8 | 33 | 11 | US-11-139-041-428 | Sequence 428, App |
| 42 | 35 | 64.8 | 101 | 11 | US-11-079-463-10120 | Sequence 10120, A |
| 43 | 35 | 64.8 | 128 | 11 | US-11-096-568A-27 | Sequence 27, Appl |
| 44 | 35 | 64.8 | 143 | 11 | US-11-096-568A-26 | Sequence 26, Appl |
| 45 | 35 | 64.8 | 292 | 11 | US-11-234-786-532 | Sequence 532, App |
| 46 | 35 | 64.8 | 292 | 11 | US-11-139-041-315 | Sequence 315, App |
| 47 | 35 | 64.8 | 292 | 11 | US-11-139-041-345 | Sequence 345, App |
| 48 | 35 | 64.8 | 292 | 11 | US-11-139-041-346 | Sequence 346, App |
| 49 | 35 | 64.8 | 311 | 11 | US-11-139-041-347 | Sequence 347, App |
| 50 | 35 | 64.8 | 313 | 11 | US-11-139-041-348 | Sequence 348, App |
| 51 | 35 | 64.8 | 371 | 11 | US-11-087-099-575 | Sequence 575, App |
| 52 | 35 | 64.8 | 384 | 11 | US-11-139-041-304 | Sequence 304, App |
| 53 | 35 | 64.8 | 384 | 11 | US-11-139-041-326 | Sequence 326, App |
| 54 | 35 | 64.8 | 384 | 11 | US-11-139-041-332 | Sequence 332, App |
| 55 | 35 | 64.8 | 384 | 11 | US-11-139-041-333 | Sequence 333, App |
| 56 | 35 | 64.8 | 384 | 11 | US-11-139-041-334 | Sequence 334, App |
| 57 | 35 | 64.8 | 384 | 11 | US-11-139-041-340 | Sequence 340, App |
| 58 | 35 | 64.8 | 394 | 11 | US-11-139-041-336 | Sequence 336, App |
| 59 | 35 | 64.8 | 473 | 9 | US-10-509-464-5 | Sequence 5, Appli |
| 60 | 35 | 64.8 | 473 | 9 | US-10-509-464-6 | Sequence 6, Appli |
| 61 | 35 | 64.8 | 529 | 11 | US-11-139-041-324 | Sequence 324, App |
| 62 | 35 | 64.8 | 656 | 11 | US-11-234-786-379 | Sequence 379, App |
| 63 | 35 | 64.8 | 656 | 11 | US-11-139-041-305 | Sequence 305, App |
| 64 | 35 | 64.8 | 671 | 11 | US-11-234-786-380 | Sequence 380, App |
| 65 | 35 | 64.8 | 671 | 11 | US-11-139-041-306 | Sequence 306, App |
| 66 | 35 | 64.8 | 969 | 8 | US-10-505-928-94 | Sequence 94, Appl |
| 67 | 35 | 64.8 | 969 | 9 | US-10-501-035-361 | Sequence 361, App |
| 68 | 35 | 64.8 | 1719 | 11 | US-11-234-786-378 | Sequence 378, App |
| 69 | 34 | 63.0 | 73 | 11 | US-11-000-463-771 | Sequence 771, App |
| 70 | 34 | 63.0 | 76 | 11 | US-11-226-657-68 | Sequence 68, Appl |
| 71 | 34 | 63.0 | 105 | 11 | US-11-087-099-7946 | Sequence 7946, Ap |
| 72 | 34 | 63.0 | 105 | 11 | US-11-188-298-18366 | Sequence 18366, A |
| 73 | 34 | 63.0 | 145 | 11 | US-11-152-601-43 | Sequence 43, Appl |
| 74 | 34 | 63.0 | 158 | 9 | US-10-530-253-15 | Sequence 15, Appl |
| 75 | 34 | 63.0 | 185 | 9 | US-10-821-234-1130 | Sequence 1130, Ap |
| 76 | 34 | 63.0 | 248 | 11 | US-11-156-516-36 | Sequence 36, Appl |
| 77 | 34 | 63.0 | 286 | 11 | US-11-188-298-17213 | Sequence 17213, A |
| 78 | 34 | 63.0 | 344 | 11 | US-11-096-568A-23536 | Sequence 23536, A |
| 79 | 34 | 63.0 | 386 | 11 | US-11-096-568A-32627 | Sequence 32627, A |
| 80 | 34 | 63.0 | 412 | 8 | US-10-511-937-2580 | Sequence 2580, Ap |
| 81 | 34 | 63.0 | 499 | 11 | US-11-096-568A-30800 | Sequence 30800, A |
| 82 | 34 | 63.0 | 602 | 11 | US-11-096-568A-30507 | Sequence 30507, A |
| 83 | 34 | 63.0 | 700 | 11 | US-11-096-568A-30799 | Sequence 30799, A |
| 84 | 34 | 63.0 | 701 | 11 | US-11-096-568A-30506 | Sequence 30506, A |
| 85 | 34 | 63.0 | 834 | 9 | US-10-131-826A-148 | Sequence 148, App |
| 86 | 34 | 63.0 | 834 | 9 | US-10-973-115B-148 | Sequence 148, App |
| 87 | 34 | 63.0 | 834 | 9 | US-10-137-873A-148 | Sequence 148, App |
| 88 | 34 | 63.0 | 834 | 9 | US-10-152-370-148 | Sequence 148, App |
| 89 | 34 | 63.0 | 834 | 11 | US-11-072-512-2323 | Sequence 2323, Ap |
| 90 | 34 | 63.0 | 834 | 11 | US-11-290-153-148 | Sequence 148, App |
| 91 | 34 | 63.0 | 841 | 9 | US-10-624-932-6 | Sequence 6, Appli |
| 92 | 34 | 63.0 | 841 | 9 | US-10-624-932-8 | Sequence 8, Appli |
| 93 | 34 | 63.0 | 879 | 11 | US-11-096-568A-30505 | Sequence 30505, A |
| 94 | 34 | 63.0 | 961 | 11 | US-11-096-568A-14789 | Sequence 14789, A |

| | | | | | | |
|---|---|---|---|---|---|---|
| 95 | 34 | 63.0 | 1094 | 11 | US-11-096-568A-14788 | Sequence 14788, A |
| 96 | 34 | 63.0 | 1165 | 11 | US-11-142-700-8 | Sequence 8, Appli |
| 97 | 34 | 63.0 | 1165 | 11 | US-11-096-568A-14787 | Sequence 14787, A |
| 98 | 33 | 61.1 | 20 | 11 | US-11-213-443-12 | Sequence 12, Appl |
| 99 | 33 | 61.1 | 24 | 11 | US-11-119-293-22 | Sequence 22, Appl |
| 100 | 33 | 61.1 | 25 | 11 | US-11-119-293-33 | Sequence 33, Appl |
| 101 | 33 | 61.1 | 26 | 11 | US-11-119-293-24 | Sequence 24, Appl |
| 102 | 33 | 61.1 | 46 | 11 | US-11-188-298-2326 | Sequence 2326, Ap |
| 103 | 33 | 61.1 | 82 | 11 | US-11-020-772-8 | Sequence 8, Appli |
| 104 | 33 | 61.1 | 82 | 11 | US-11-076-728-8 | Sequence 8, Appli |
| 105 | 33 | 61.1 | 84 | 11 | US-11-240-769-60 | Sequence 60, Appl |
| 106 | 33 | 61.1 | 89 | 9 | US-10-467-657-5016 | Sequence 5016, Ap |
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| 108 | 33 | 61.1 | 92 | 11 | US-11-058-542-1 | Sequence 1, Appli |
| 109 | 33 | 61.1 | 92 | 11 | US-11-152-601-1 | Sequence 1, Appli |
| 110 | 33 | 61.1 | 92 | 11 | US-11-152-601-24 | Sequence 24, Appl |
| 111 | 33 | 61.1 | 92 | 11 | US-11-152-601-25 | Sequence 25, Appl |
| 112 | 33 | 61.1 | 92 | 11 | US-11-152-601-26 | Sequence 26, Appl |
| 113 | 33 | 61.1 | 92 | 11 | US-11-152-601-27 | Sequence 27, Appl |
| 114 | 33 | 61.1 | 92 | 11 | US-11-152-601-28 | Sequence 28, Appl |
| 115 | 33 | 61.1 | 92 | 11 | US-11-152-601-29 | Sequence 29, Appl |
| 116 | 33 | 61.1 | 92 | 11 | US-11-152-601-30 | Sequence 30, Appl |
| 117 | 33 | 61.1 | 92 | 11 | US-11-152-601-31 | Sequence 31, Appl |
| 118 | 33 | 61.1 | 92 | 11 | US-11-152-601-32 | Sequence 32, Appl |
| 119 | 33 | 61.1 | 92 | 11 | US-11-152-601-33 | Sequence 33, Appl |
| 120 | 33 | 61.1 | 92 | 11 | US-11-152-601-34 | Sequence 34, Appl |
| 121 | 33 | 61.1 | 92 | 11 | US-11-190-465A-1 | Sequence 1, Appli |
| 122 | 33 | 61.1 | 92 | 11 | US-11-190-465A-45 | Sequence 45, Appl |
| 123 | 33 | 61.1 | 95 | 11 | US-11-152-601-12 | Sequence 12, Appl |
| 124 | 33 | 61.1 | 95 | 11 | US-11-152-601-13 | Sequence 13, Appl |
| 125 | 33 | 61.1 | 96 | 11 | US-11-152-601-2 | Sequence 2, Appli |
| 126 | 33 | 61.1 | 96 | 11 | US-11-152-601-3 | Sequence 3, Appli |
| 127 | 33 | 61.1 | 96 | 11 | US-11-152-601-4 | Sequence 4, Appli |
| 128 | 33 | 61.1 | 96 | 11 | US-11-152-601-6 | Sequence 6, Appli |
| 129 | 33 | 61.1 | 96 | 11 | US-11-190-465A-44 | Sequence 44, Appl |
| 130 | 33 | 61.1 | 96 | 11 | US-11-190-465A-46 | Sequence 46, Appl |
| 131 | 33 | 61.1 | 96 | 11 | US-11-190-465A-47 | Sequence 47, Appl |
| 132 | 33 | 61.1 | 96 | 11 | US-11-190-465A-48 | Sequence 48, Appl |
| 133 | 33 | 61.1 | 96 | 11 | US-11-190-465A-49 | Sequence 49, Appl |
| 134 | 33 | 61.1 | 96 | 11 | US-11-190-465A-50 | Sequence 50, Appl |
| 135 | 33 | 61.1 | 96 | 11 | US-11-190-465A-52 | Sequence 52, Appl |
| 136 | 33 | 61.1 | 96 | 11 | US-11-190-465A-53 | Sequence 53, Appl |
| 137 | 33 | 61.1 | 96 | 11 | US-11-190-465A-54 | Sequence 54, Appl |
| 138 | 33 | 61.1 | 96 | 11 | US-11-190-465A-55 | Sequence 55, Appl |
| 139 | 33 | 61.1 | 96 | 11 | US-11-190-465A-56 | Sequence 56, Appl |
| 140 | 33 | 61.1 | 113 | 11 | US-11-072-512-2080 | Sequence 2080, Ap |
| 141 | 33 | 61.1 | 114 | 11 | US-11-250-759-289 | Sequence 289, App |
| 142 | 33 | 61.1 | 115 | 11 | US-11-250-759-290 | Sequence 290, App |
| 143 | 33 | 61.1 | 116 | 9 | US-10-821-234-1625 | Sequence 1625, Ap |
| 144 | 33 | 61.1 | 116 | 10 | US-11-183-218-12 | Sequence 12, Appl |
| 145 | 33 | 61.1 | 116 | 10 | US-11-183-218-70 | Sequence 70, Appl |
| 146 | 33 | 61.1 | 116 | 11 | US-11-183-205-12 | Sequence 12, Appl |
| 147 | 33 | 61.1 | 116 | 11 | US-11-219-339-2 | Sequence 2, Appli |
| 148 | 33 | 61.1 | 137 | 11 | US-11-250-759-284 | Sequence 284, App |
| 149 | 33 | 61.1 | 141 | 9 | US-10-218-784-16 | Sequence 16, Appl |
| 150 | 33 | 61.1 | 141 | 9 | US-10-219-061-16 | Sequence 16, Appl |
| 151 | 33 | 61.1 | 141 | 9 | US-10-219-062-16 | Sequence 16, Appl |
| 152 | 33 | 61.1 | 141 | 9 | US-10-219-064-16 | Sequence 16, Appl |
| 153 | 33 | 61.1 | 141 | 9 | US-10-233-134-16 | Sequence 16, Appl |
| 154 | 33 | 61.1 | 141 | 11 | US-11-050-857-969 | Sequence 969, App |
| 155 | 33 | 61.1 | 141 | 11 | US-11-051-720-1708 | Sequence 1708, Ap |
| 156 | 33 | 61.1 | 141 | 11 | US-11-043-806-486 | Sequence 486, App |
| 157 | 33 | 61.1 | 141 | 11 | US-11-250-759-215 | Sequence 215, App |
| 158 | 33 | 61.1 | 144 | 11 | US-11-096-568A-12659 | Sequence 12659, A |
| 159 | 33 | 61.1 | 148 | 9 | US-10-213-292-42 | Sequence 42, Appl |
| 160 | 33 | 61.1 | 156 | 11 | US-11-096-568A-14075 | Sequence 14075, A |
| 161 | 33 | 61.1 | 157 | 11 | US-11-050-857-972 | Sequence 972, App |
| 162 | 33 | 61.1 | 157 | 11 | US-11-043-806-489 | Sequence 489, App |
| 163 | 33 | 61.1 | 164 | 11 | US-11-050-857-971 | Sequence 971, App |
| 164 | 33 | 61.1 | 164 | 11 | US-11-051-720-1710 | Sequence 1710, Ap |
| 165 | 33 | 61.1 | 164 | 11 | US-11-043-806-488 | Sequence 488, App |
| 166 | 33 | 61.1 | 165 | 11 | US-11-050-857-970 | Sequence 970, App |
| 167 | 33 | 61.1 | 165 | 11 | US-11-051-720-1709 | Sequence 1709, Ap |
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| 169 | 33 | 61.1 | 184 | 11 | US-11-084-591-5 | Sequence 5, Appli |
| 170 | 33 | 61.1 | 184 | 11 | US-11-264-096-347 | Sequence 347, App |
| 171 | 33 | 61.1 | 184 | 11 | US-11-264-096-2250 | Sequence 2250, Ap |
| 172 | 33 | 61.1 | 186 | 11 | US-11-096-568A-25815 | Sequence 25815, A |
| 173 | 33 | 61.1 | 237 | 11 | US-11-152-601-48 | Sequence 48, Appl |
| 174 | 33 | 61.1 | 237 | 11 | US-11-152-601-49 | Sequence 49, Appl |
| 175 | 33 | 61.1 | 237 | 11 | US-11-152-601-50 | Sequence 50, Appl |
| 176 | 33 | 61.1 | 237 | 11 | US-11-152-601-51 | Sequence 51, Appl |
| 177 | 33 | 61.1 | 237 | 11 | US-11-152-601-52 | Sequence 52, Appl |
| 178 | 33 | 61.1 | 237 | 11 | US-11-152-601-53 | Sequence 53, Appl |
| 179 | 33 | 61.1 | 237 | 11 | US-11-152-601-54 | Sequence 54, Appl |
| 180 | 33 | 61.1 | 237 | 11 | US-11-152-601-55 | Sequence 55, Appl |
| 181 | 33 | 61.1 | 237 | 11 | US-11-152-601-56 | Sequence 56, Appl |
| 182 | 33 | 61.1 | 237 | 11 | US-11-152-601-57 | Sequence 57, Appl |
| 183 | 33 | 61.1 | 245 | 11 | US-11-096-568A-11982 | Sequence 11982, A |
| 184 | 33 | 61.1 | 274 | 11 | US-11-096-568A-20616 | Sequence 20616, A |
| 185 | 33 | 61.1 | 284 | 11 | US-11-096-568A-17484 | Sequence 17484, A |
| 186 | 33 | 61.1 | 296 | 11 | US-11-096-568A-25814 | Sequence 25814, A |
| 187 | 33 | 61.1 | 302 | 11 | US-11-182-592-6 | Sequence 6, Appli |
| 188 | 33 | 61.1 | 325 | 11 | US-11-087-099-5826 | Sequence 5826, Ap |
| 189 | 33 | 61.1 | 331 | 9 | US-10-467-962B-61 | Sequence 61, Appl |
| 190 | 33 | 61.1 | 340 | 11 | US-11-096-568A-20615 | Sequence 20615, A |
| 191 | 33 | 61.1 | 341 | 11 | US-11-096-568A-11981 | Sequence 11981, A |
| 192 | 33 | 61.1 | 347 | 11 | US-11-096-568A-25772 | Sequence 25772, A |
| 193 | 33 | 61.1 | 348 | 11 | US-11-096-568A-11980 | Sequence 11980, A |
| 194 | 33 | 61.1 | 353 | 11 | US-11-182-592-4 | Sequence 4, Appli |
| 195 | 33 | 61.1 | 353 | 11 | US-11-096-568A-25771 | Sequence 25771, A |
| 196 | 33 | 61.1 | 360 | 11 | US-11-096-568A-20614 | Sequence 20614, A |
| 197 | 33 | 61.1 | 407 | 11 | US-11-072-512-3074 | Sequence 3074, Ap |
| 198 | 33 | 61.1 | 438 | 11 | US-11-096-568A-25770 | Sequence 25770, A |
| 199 | 33 | 61.1 | 460 | 11 | US-11-182-016-26 | Sequence 26, Appl |
| 200 | 33 | 61.1 | 470 | 11 | US-11-008-727-20 | Sequence 20, Appl |
| 201 | 33 | 61.1 | 759 | 11 | US-11-045-004-695 | Sequence 695, App |
| 202 | 33 | 61.1 | 833 | 11 | US-11-159-902-2 | Sequence 2, Appli |
| 203 | 33 | 61.1 | 1139 | 11 | US-11-098-686-10206 | Sequence 10206, A |
| 204 | 33 | 61.1 | 1308 | 9 | US-10-912-971-12 | Sequence 12, Appl |
| 205 | 33 | 61.1 | 1308 | 11 | US-11-113-202-16 | Sequence 16, Appl |
| 206 | 32 | 59.3 | 8 | 11 | US-11-129-741-4105 | Sequence 4105, Ap |
| 207 | 32 | 59.3 | 9 | 9 | US-10-895-064-42 | Sequence 42, Appl |
| 208 | 32 | 59.3 | 9 | 11 | US-11-129-741-42 | Sequence 42, Appl |
| 209 | 32 | 59.3 | 9 | 11 | US-11-129-741-2978 | Sequence 2978, Ap |
| 210 | 32 | 59.3 | 25 | 11 | US-11-119-293-16 | Sequence 16, Appl |
| 211 | 32 | 59.3 | 25 | 11 | US-11-119-293-29 | Sequence 29, Appl |
| 212 | 32 | 59.3 | 25 | 11 | US-11-119-293-34 | Sequence 34, Appl |
| 213 | 32 | 59.3 | 26 | 11 | US-11-119-293-26 | Sequence 26, Appl |
| 214 | 32 | 59.3 | 60 | 11 | US-11-255-427-15 | Sequence 15, Appl |
| 215 | 32 | 59.3 | 86 | 11 | US-11-096-568A-1385 | Sequence 1385, Ap |
| 216 | 32 | 59.3 | 100 | 11 | US-11-096-568A-11154 | Sequence 11154, A |
| 217 | 32 | 59.3 | 101 | 11 | US-11-188-298-12217 | Sequence 12217, A |
| 218 | 32 | 59.3 | 107 | 11 | US-11-096-568A-11152 | Sequence 11152, A |
| 219 | 32 | 59.3 | 121 | 11 | US-11-096-568A-25034 | Sequence 25034, A |
| 220 | 32 | 59.3 | 143 | 9 | US-10-506-454-1077 | Sequence 1077, Ap |
| 221 | 32 | 59.3 | 148 | 11 | US-11-096-568A-4014 | Sequence 4014, Ap |
| 222 | 32 | 59.3 | 149 | 9 | US-10-530-253-18 | Sequence 18, Appl |
| 223 | 32 | 59.3 | 158 | 11 | US-11-096-568A-28648 | Sequence 28648, A |
| 224 | 32 | 59.3 | 159 | 11 | US-11-153-071-8 | Sequence 8, Appli |
| 225 | 32 | 59.3 | 160 | 11 | US-11-153-071-22 | Sequence 22, Appl |
| 226 | 32 | 59.3 | 171 | 9 | US-10-131-826A-220 | Sequence 220, App |
| 227 | 32 | 59.3 | 171 | 9 | US-10-973-115B-220 | Sequence 220, App |
| 228 | 32 | 59.3 | 171 | 9 | US-10-137-873A-220 | Sequence 220, App |
| 229 | 32 | 59.3 | 171 | 9 | US-10-152-370-220 | Sequence 220, App |
| 230 | 32 | 59.3 | 171 | 11 | US-11-290-153-220 | Sequence 220, App |
| 231 | 32 | 59.3 | 189 | 11 | US-11-072-512-3254 | Sequence 3254, Ap |
| 232 | 32 | 59.3 | 189 | 11 | US-11-096-568A-28647 | Sequence 28647, A |
| 233 | 32 | 59.3 | 193 | 11 | US-11-096-568A-12120 | Sequence 12120, A |
| 234 | 32 | 59.3 | 193 | 11 | US-11-096-568A-26463 | Sequence 26463, A |
| 235 | 32 | 59.3 | 194 | 11 | US-11-087-099-291 | Sequence 291, App |
| 236 | 32 | 59.3 | 200 | 11 | US-11-096-568A-12119 | Sequence 12119, A |
| 237 | 32 | 59.3 | 206 | 11 | US-11-087-099-2802 | Sequence 2802, Ap |
| 238 | 32 | 59.3 | 231 | 9 | US-10-467-657-2996 | Sequence 2996, Ap |
| 239 | 32 | 59.3 | 246 | 8 | US-10-505-928-414 | Sequence 414, App |
| 240 | 32 | 59.3 | 256 | 11 | US-11-096-568A-28582 | Sequence 28582, A |

| | | | | | | |
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| 241 | 32 | 59.3 | 285 | 11 | US-11-087-099-3152 | Sequence 3152, Ap |
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| 243 | 32 | 59.3 | 337 | 11 | US-11-096-568A-7705 | Sequence 7705, Ap |
| 244 | 32 | 59.3 | 340 | 11 | US-11-096-568A-7704 | Sequence 7704, Ap |
| 245 | 32 | 59.3 | 346 | 9 | US-10-131-826A-432 | Sequence 432, App |
| 246 | 32 | 59.3 | 346 | 9 | US-10-967-457-77 | Sequence 77, Appl |
| 247 | 32 | 59.3 | 346 | 9 | US-10-973-115B-432 | Sequence 432, App |
| 248 | 32 | 59.3 | 346 | 9 | US-10-137-873A-432 | Sequence 432, App |
| 249 | 32 | 59.3 | 346 | 9 | US-10-152-370-432 | Sequence 432, App |
| 250 | 32 | 59.3 | 346 | 11 | US-11-290-153-432 | Sequence 432, App |
| 251 | 32 | 59.3 | 346 | 11 | US-11-264-096-2068 | Sequence 2068, Ap |
| 252 | 32 | 59.3 | 347 | 9 | US-10-467-657-2962 | Sequence 2962, Ap |
| 253 | 32 | 59.3 | 353 | 11 | US-11-188-298-18001 | Sequence 18001, A |
| 254 | 32 | 59.3 | 361 | 11 | US-11-096-568A-31792 | Sequence 31792, A |
| 255 | 32 | 59.3 | 371 | 11 | US-11-096-568A-31791 | Sequence 31791, A |
| 256 | 32 | 59.3 | 376 | 11 | US-11-096-568A-7703 | Sequence 7703, Ap |
| 257 | 32 | 59.3 | 381 | 11 | US-11-096-568A-23171 | Sequence 23171, A |
| 258 | 32 | 59.3 | 414 | 11 | US-11-096-568A-22755 | Sequence 22755, A |
| 259 | 32 | 59.3 | 685 | 11 | US-11-142-700-25 | Sequence 25, Appl |
| 260 | 32 | 59.3 | 855 | 11 | US-11-096-568A-29960 | Sequence 29960, A |
| 261 | 32 | 59.3 | 897 | 11 | US-11-096-568A-29959 | Sequence 29959, A |
| 262 | 32 | 59.3 | 911 | 11 | US-11-096-568A-29958 | Sequence 29958, A |
| 263 | 32 | 59.3 | 989 | 11 | US-11-096-568A-29282 | Sequence 29282, A |
| 264 | 32 | 59.3 | 1063 | 11 | US-11-096-568A-29281 | Sequence 29281, A |
| 265 | 32 | 59.3 | 1124 | 11 | US-11-087-099-1938 | Sequence 1938, Ap |
| 266 | 32 | 59.3 | 1124 | 11 | US-11-087-099-2565 | Sequence 2565, Ap |
| 267 | 32 | 59.3 | 1184 | 11 | US-11-096-568A-29280 | Sequence 29280, A |
| 268 | 31.5 | 58.3 | 223 | 11 | US-11-188-298-9910 | Sequence 9910, Ap |
| 269 | 31.5 | 58.3 | 932 | 11 | US-11-188-298-20043 | Sequence 20043, A |
| 270 | 31 | 57.4 | 10 | 11 | US-11-004-399-1358 | Sequence 1358, Ap |
| 271 | 31 | 57.4 | 16 | 9 | US-10-670-009-12 | Sequence 12, Appl |
| 272 | 31 | 57.4 | 16 | 9 | US-10-670-009-13 | Sequence 13, Appl |
| 273 | 31 | 57.4 | 20 | 11 | US-11-139-041-355 | Sequence 355, App |
| 274 | 31 | 57.4 | 20 | 11 | US-11-139-041-370 | Sequence 370, App |
| 275 | 31 | 57.4 | 25 | 11 | US-11-119-293-28 | Sequence 28, Appl |
| 276 | 31 | 57.4 | 25 | 11 | US-11-119-293-31 | Sequence 31, Appl |
| 277 | 31 | 57.4 | 25 | 11 | US-11-119-293-32 | Sequence 32, Appl |
| 278 | 31 | 57.4 | 33 | 11 | US-11-121-301-37 | Sequence 37, Appl |
| 279 | 31 | 57.4 | 58 | 11 | US-11-004-399-3208 | Sequence 3208, Ap |
| 280 | 31 | 57.4 | 58 | 11 | US-11-264-096-462 | Sequence 462, App |
| 281 | 31 | 57.4 | 58 | 11 | US-11-264-096-463 | Sequence 463, App |
| 282 | 31 | 57.4 | 58 | 11 | US-11-264-096-464 | Sequence 464, App |
| 283 | 31 | 57.4 | 59 | 9 | US-10-948-571-96 | Sequence 96, Appl |
| 284 | 31 | 57.4 | 61 | 8 | US-10-505-928-590 | Sequence 590, App |
| 285 | 31 | 57.4 | 66 | 11 | US-11-172-536-1 | Sequence 1, Appli |
| 286 | 31 | 57.4 | 75 | 11 | US-11-188-298-7518 | Sequence 7518, Ap |
| 287 | 31 | 57.4 | 84 | 9 | US-10-063-703-44 | Sequence 44, Appl |
| 288 | 31 | 57.4 | 84 | 9 | US-10-194-487-186 | Sequence 186, App |
| 289 | 31 | 57.4 | 84 | 9 | US-10-195-883-186 | Sequence 186, App |
| 290 | 31 | 57.4 | 84 | 9 | US-10-195-888-186 | Sequence 186, App |
| 291 | 31 | 57.4 | 84 | 9 | US-10-195-889-186 | Sequence 186, App |
| 292 | 31 | 57.4 | 84 | 11 | US-11-102-240-44 | Sequence 44, Appl |
| 293 | 31 | 57.4 | 84 | 11 | US-11-140-284-12 | Sequence 12, Appl |
| 294 | 31 | 57.4 | 84 | 11 | US-11-103-195-44 | Sequence 44, Appl |
| 295 | 31 | 57.4 | 85 | 11 | US-11-096-568A-12337 | Sequence 12337, A |
| 296 | 31 | 57.4 | 92 | 11 | US-11-188-298-10435 | Sequence 10435, A |
| 297 | 31 | 57.4 | 92 | 11 | US-11-188-298-11450 | Sequence 11450, A |
| 298 | 31 | 57.4 | 92 | 11 | US-11-188-298-13384 | Sequence 13384, A |
| 299 | 31 | 57.4 | 92 | 11 | US-11-188-298-19074 | Sequence 19074, A |
| 300 | 31 | 57.4 | 97 | 11 | US-11-172-536-2 | Sequence 2, Appli |
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| 302 | 31 | 57.4 | 103 | 11 | US-11-004-399-367 | Sequence 367, App |
| 303 | 31 | 57.4 | 103 | 11 | US-11-004-399-698 | Sequence 698, App |
| 304 | 31 | 57.4 | 103 | 11 | US-11-004-399-3728 | Sequence 3728, Ap |
| 305 | 31 | 57.4 | 107 | 11 | US-11-188-298-12105 | Sequence 12105, A |
| 306 | 31 | 57.4 | 118 | 11 | US-11-096-568A-12336 | Sequence 12336, A |
| 307 | 31 | 57.4 | 132 | 11 | US-11-004-399-3186 | Sequence 3186, Ap |
| 308 | 31 | 57.4 | 139 | 11 | US-11-096-568A-14132 | Sequence 14132, A |
| 309 | 31 | 57.4 | 179 | 11 | US-11-096-568A-11583 | Sequence 11583, A |
| 310 | 31 | 57.4 | 192 | 11 | US-11-096-568A-11582 | Sequence 11582, A |
| 311 | 31 | 57.4 | 196 | 8 | US-10-505-928-686 | Sequence 686, App |
| 312 | 31 | 57.4 | 196 | 11 | US-11-153-880-5 | Sequence 5, Appli |
| 313 | 31 | 57.4 | 196 | 11 | US-11-064-774A-125 | Sequence 125, App |
| 314 | 31 | 57.4 | 196 | 11 | US-11-211-724-3 | Sequence 3, Appli |
| 315 | 31 | 57.4 | 196 | 11 | US-11-129-076-2 | Sequence 2, Appli |
| 316 | 31 | 57.4 | 196 | 11 | US-11-076-427A-18 | Sequence 18, Appl |
| 317 | 31 | 57.4 | 196 | 11 | US-11-233-119-5 | Sequence 5, Appli |
| 318 | 31 | 57.4 | 196 | 11 | US-11-072-175-207 | Sequence 207, App |
| 319 | 31 | 57.4 | 196 | 11 | US-11-075-047A-99 | Sequence 99, Appl |
| 320 | 31 | 57.4 | 198 | 11 | US-11-096-568A-17131 | Sequence 17131, A |
| 321 | 31 | 57.4 | 198 | 11 | US-11-079-463-9654 | Sequence 9654, Ap |
| 322 | 31 | 57.4 | 202 | 9 | US-10-821-234-1298 | Sequence 1298, Ap |
| 323 | 31 | 57.4 | 204 | 11 | US-11-129-076-1 | Sequence 1, Appli |
| 324 | 31 | 57.4 | 211 | 11 | US-11-075-400-18 | Sequence 18, Appl |
| 325 | 31 | 57.4 | 211 | 11 | US-11-249-422-5 | Sequence 5, Appli |
| 326 | 31 | 57.4 | 223 | 11 | US-11-096-568A-19101 | Sequence 19101, A |
| 327 | 31 | 57.4 | 228 | 11 | US-11-096-568A-220 | Sequence 220, App |
| 328 | 31 | 57.4 | 228 | 11 | US-11-096-568A-222 | Sequence 222, App |
| 329 | 31 | 57.4 | 234 | 9 | US-10-330-773-611 | Sequence 611, App |
| 330 | 31 | 57.4 | 238 | 11 | US-11-096-568A-21438 | Sequence 21438, A |
| 331 | 31 | 57.4 | 240 | 11 | US-11-096-568A-21437 | Sequence 21437, A |
| 332 | 31 | 57.4 | 241 | 11 | US-11-096-568A-21436 | Sequence 21436, A |
| 333 | 31 | 57.4 | 277 | 11 | US-11-096-568A-1871 | Sequence 1871, Ap |
| 334 | 31 | 57.4 | 277 | 11 | US-11-096-568A-27199 | Sequence 27199, A |
| 335 | 31 | 57.4 | 281 | 11 | US-11-087-099-6447 | Sequence 6447, Ap |
| 336 | 31 | 57.4 | 285 | 11 | US-11-051-720-1493 | Sequence 1493, Ap |
| 337 | 31 | 57.4 | 298 | 11 | US-11-096-568A-19100 | Sequence 19100, A |
| 338 | 31 | 57.4 | 310 | 11 | US-11-188-298-14716 | Sequence 14716, A |
| 339 | 31 | 57.4 | 314 | 11 | US-11-051-720-1492 | Sequence 1492, Ap |
| 340 | 31 | 57.4 | 354 | 11 | US-11-087-099-11419 | Sequence 11419, A |
| 341 | 31 | 57.4 | 370 | 11 | US-11-087-099-5031 | Sequence 5031, Ap |
| 342 | 31 | 57.4 | 370 | 11 | US-11-087-099-11201 | Sequence 11201, A |
| 343 | 31 | 57.4 | 371 | 11 | US-11-087-099-4683 | Sequence 4683, Ap |
| 344 | 31 | 57.4 | 380 | 11 | US-11-096-568A-22474 | Sequence 22474, A |
| 345 | 31 | 57.4 | 397 | 11 | US-11-087-099-9323 | Sequence 9323, Ap |
| 346 | 31 | 57.4 | 413 | 11 | US-11-087-099-12278 | Sequence 12278, A |
| 347 | 31 | 57.4 | 422 | 11 | US-11-087-099-1523 | Sequence 1523, Ap |
| 348 | 31 | 57.4 | 448 | 11 | US-11-182-016-24 | Sequence 24, Appl |
| 349 | 31 | 57.4 | 455 | 11 | US-11-087-099-404 | Sequence 404, App |
| 350 | 31 | 57.4 | 473 | 11 | US-11-087-099-9537 | Sequence 9537, Ap |
| 351 | 31 | 57.4 | 485 | 11 | US-11-188-298-22078 | Sequence 22078, A |
| 352 | 31 | 57.4 | 635 | 11 | US-11-188-298-7354 | Sequence 7354, Ap |
| 353 | 31 | 57.4 | 665 | 11 | US-11-051-720-1497 | Sequence 1497, Ap |
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| 355 | 31 | 57.4 | 751 | 11 | US-11-051-720-1499 | Sequence 1499, Ap |
| 356 | 31 | 57.4 | 782 | 11 | US-11-051-720-1496 | Sequence 1496, Ap |
| 357 | 31 | 57.4 | 784 | 11 | US-11-051-720-1498 | Sequence 1498, Ap |
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| 359 | 31 | 57.4 | 868 | 11 | US-11-051-720-1494 | Sequence 1494, Ap |
| 360 | 31 | 57.4 | 901 | 11 | US-11-051-720-1495 | Sequence 1495, Ap |
| 361 | 31 | 57.4 | 1057 | 11 | US-11-096-568A-30809 | Sequence 30809, A |
| 362 | 31 | 57.4 | 1072 | 11 | US-11-096-568A-27848 | Sequence 27848, A |
| 363 | 31 | 57.4 | 1151 | 11 | US-11-087-099-9496 | Sequence 9496, Ap |
| 364 | 31 | 57.4 | 1166 | 11 | US-11-096-568A-30808 | Sequence 30808, A |
| 365 | 31 | 57.4 | 1174 | 11 | US-11-096-568A-30807 | Sequence 30807, A |
| 366 | 31 | 57.4 | 1181 | 11 | US-11-096-568A-27847 | Sequence 27847, A |
| 367 | 31 | 57.4 | 1187 | 11 | US-11-043-889-46 | Sequence 46, Appl |
| 368 | 31 | 57.4 | 1189 | 11 | US-11-096-568A-27846 | Sequence 27846, A |
| 369 | 31 | 57.4 | 1905 | 9 | US-10-877-346-44 | Sequence 44, Appl |
| 370 | 31 | 57.4 | 2250 | 9 | US-10-922-232B-57 | Sequence 57, Appl |
| 371 | 31 | 57.4 | 4060 | 9 | US-10-922-232B-55 | Sequence 55, Appl |
| 372 | 31 | 57.4 | 6738 | 9 | US-10-922-232B-56 | Sequence 56, Appl |
| 373 | 30.5 | 56.5 | 410 | 9 | US-10-821-234-952 | Sequence 952, App |
| 374 | 30.5 | 56.5 | 516 | 11 | US-11-072-512-2033 | Sequence 2033, Ap |
| 375 | 30 | 55.6 | 9 | 9 | US-10-530-061-605 | Sequence 605, App |
| 376 | 30 | 55.6 | 10 | 9 | US-10-530-061-515 | Sequence 515, App |
| 377 | 30 | 55.6 | 10 | 9 | US-10-530-061-559 | Sequence 559, App |
| 378 | 30 | 55.6 | 13 | 9 | US-10-895-064-1041 | Sequence 1041, Ap |
| 379 | 30 | 55.6 | 13 | 11 | US-11-129-741-1041 | Sequence 1041, Ap |
| 380 | 30 | 55.6 | 13 | 11 | US-11-129-741-4037 | Sequence 4037, Ap |
| 381 | 30 | 55.6 | 25 | 11 | US-11-119-293-27 | Sequence 27, Appl |
| 382 | 30 | 55.6 | 61 | 8 | US-10-505-928-563 | Sequence 563, App |
| 383 | 30 | 55.6 | 61 | 8 | US-10-505-928-630 | Sequence 630, App |
| 384 | 30 | 55.6 | 61 | 8 | US-10-505-928-668 | Sequence 668, App |
| 385 | 30 | 55.6 | 61 | 8 | US-10-505-928-722 | Sequence 722, App |
| 386 | 30 | 55.6 | 61 | 8 | US-10-505-928-787 | Sequence 787, App |

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| 387 | 30 | 55.6 | 61 | 11 | US-11-255-427-12 | Sequence 12, Appl |
| 388 | 30 | 55.6 | 61 | 11 | US-11-255-427-13 | Sequence 13, Appl |
| 389 | 30 | 55.6 | 61 | 11 | US-11-255-427-14 | Sequence 14, Appl |
| 390 | 30 | 55.6 | 62 | 9 | US-10-914-391A-1 | Sequence 1, Appli |
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| 392 | 30 | 55.6 | 62 | 11 | US-11-255-427-16 | Sequence 16, Appl |
| 393 | 30 | 55.6 | 62 | 11 | US-11-188-298-19238 | Sequence 19238, A |
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| 396 | 30 | 55.6 | 68 | 8 | US-10-505-928-817 | Sequence 817, App |
| 397 | 30 | 55.6 | 82 | 11 | US-11-188-298-13113 | Sequence 13113, A |
| 398 | 30 | 55.6 | 83 | 11 | US-11-096-568A-29552 | Sequence 29552, A |
| 399 | 30 | 55.6 | 92 | 11 | US-11-000-463-380 | Sequence 380, App |
| 400 | 30 | 55.6 | 92 | 11 | US-11-000-463-852 | Sequence 852, App |
| 401 | 30 | 55.6 | 93 | 11 | US-11-201-519-35 | Sequence 35, Appl |
| 402 | 30 | 55.6 | 99 | 11 | US-11-159-667-38 | Sequence 38, Appl |
| 403 | 30 | 55.6 | 100 | 11 | US-11-188-298-1917 | Sequence 1917, Ap |
| 404 | 30 | 55.6 | 105 | 11 | US-11-188-298-16051 | Sequence 16051, A |
| 405 | 30 | 55.6 | 105 | 11 | US-11-264-096-230 | Sequence 230, App |
| 406 | 30 | 55.6 | 105 | 11 | US-11-264-096-232 | Sequence 232, App |
| 407 | 30 | 55.6 | 106 | 11 | US-11-087-099-9034 | Sequence 9034, Ap |
| 408 | 30 | 55.6 | 111 | 11 | US-11-184-005-6 | Sequence 6, Appli |
| 409 | 30 | 55.6 | 123 | 11 | US-11-096-568A-1061 | Sequence 1061, Ap |
| 410 | 30 | 55.6 | 123 | 11 | US-11-096-568A-26748 | Sequence 26748, A |
| 411 | 30 | 55.6 | 126 | 11 | US-11-113-424-184 | Sequence 184, App |
| 412 | 30 | 55.6 | 128 | 11 | US-11-087-099-6725 | Sequence 6725, Ap |
| 413 | 30 | 55.6 | 134 | 11 | US-11-096-568A-4045 | Sequence 4045, Ap |
| 414 | 30 | 55.6 | 148 | 11 | US-11-087-099-7556 | Sequence 7556, Ap |
| 415 | 30 | 55.6 | 150 | 11 | US-11-096-568A-1060 | Sequence 1060, Ap |
| 416 | 30 | 55.6 | 150 | 11 | US-11-096-568A-26747 | Sequence 26747, A |
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| 418 | 30 | 55.6 | 158 | 9 | US-10-530-253-20 | Sequence 20, Appl |
| 419 | 30 | 55.6 | 176 | 11 | US-11-079-463-7820 | Sequence 7820, Ap |
| 420 | 30 | 55.6 | 181 | 11 | US-11-096-568A-3192 | Sequence 3192, Ap |
| 421 | 30 | 55.6 | 181 | 11 | US-11-096-568A-3193 | Sequence 3193, Ap |
| 422 | 30 | 55.6 | 186 | 11 | US-11-264-096-924 | Sequence 924, App |
| 423 | 30 | 55.6 | 192 | 11 | US-11-087-099-3974 | Sequence 3974, Ap |
| 424 | 30 | 55.6 | 205 | 9 | US-10-467-657-580 | Sequence 580, App |
| 425 | 30 | 55.6 | 209 | 7 | US-09-978-360A-453 | Sequence 453, App |
| 426 | 30 | 55.6 | 224 | 9 | US-10-942-698-11 | Sequence 11, Appl |
| 427 | 30 | 55.6 | 226 | 11 | US-11-096-568A-3191 | Sequence 3191, Ap |
| 428 | 30 | 55.6 | 234 | 9 | US-10-644-807-440 | Sequence 440, App |
| 429 | 30 | 55.6 | 249 | 11 | US-11-087-099-5375 | Sequence 5375, Ap |
| 430 | 30 | 55.6 | 253 | 9 | US-10-501-035-248 | Sequence 248, App |
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| 434 | 30 | 55.6 | 291 | 11 | US-11-087-099-3591 | Sequence 3591, Ap |
| 435 | 30 | 55.6 | 293 | 9 | US-10-131-826A-422 | Sequence 422, App |
| 436 | 30 | 55.6 | 293 | 9 | US-10-973-115B-422 | Sequence 422, App |
| 437 | 30 | 55.6 | 293 | 9 | US-10-216-161A-231 | Sequence 231, App |
| 438 | 30 | 55.6 | 293 | 9 | US-10-137-873A-422 | Sequence 422, App |
| 439 | 30 | 55.6 | 293 | 9 | US-10-152-370-422 | Sequence 422, App |
| 440 | 30 | 55.6 | 293 | 11 | US-11-290-153-422 | Sequence 422, App |
| 441 | 30 | 55.6 | 300 | 11 | US-11-058-924-7 | Sequence 7, Appli |
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| 445 | 30 | 55.6 | 318 | 11 | US-11-096-568A-16448 | Sequence 16448, A |
| 446 | 30 | 55.6 | 319 | 11 | US-11-087-099-677 | Sequence 677, App |
| 447 | 30 | 55.6 | 320 | 11 | US-11-096-568A-23622 | Sequence 23622, A |
| 448 | 30 | 55.6 | 321 | 11 | US-11-079-463-6611 | Sequence 6611, Ap |
| 449 | 30 | 55.6 | 322 | 11 | US-11-087-099-5170 | Sequence 5170, Ap |
| 450 | 30 | 55.6 | 322 | 11 | US-11-096-568A-23621 | Sequence 23621, A |
| 451 | 30 | 55.6 | 346 | 9 | US-10-878-556A-121 | Sequence 121, App |
| 452 | 30 | 55.6 | 346 | 11 | US-11-069-642-109 | Sequence 109, App |
| 453 | 30 | 55.6 | 346 | 11 | US-11-096-568A-16447 | Sequence 16447, A |
| 454 | 30 | 55.6 | 346 | 11 | US-11-264-096-1839 | Sequence 1839, Ap |
| 455 | 30 | 55.6 | 353 | 11 | US-11-096-568A-16446 | Sequence 16446, A |
| 456 | 30 | 55.6 | 357 | 11 | US-11-087-099-11474 | Sequence 11474, A |
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| 466 | 30 | 55.6 | 391 | 11 | US-11-096-568A-19532 | Sequence 19532, A |
| 467 | 30 | 55.6 | 398 | 11 | US-11-188-298-21995 | Sequence 21995, A |
| 468 | 30 | 55.6 | 413 | 11 | US-11-096-568A-20771 | Sequence 20771, A |
| 469 | 30 | 55.6 | 427 | 9 | US-10-508-263-96 | Sequence 96, Appl |
| 470 | 30 | 55.6 | 432 | 11 | US-11-098-686-10865 | Sequence 10865, A |
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| 473 | 30 | 55.6 | 452 | 11 | US-11-096-568A-28121 | Sequence 28121, A |
| 474 | 30 | 55.6 | 457 | 9 | US-10-063-703-12 | Sequence 12, Appl |
| 475 | 30 | 55.6 | 457 | 9 | US-10-194-487-48 | Sequence 48, Appl |
| 476 | 30 | 55.6 | 457 | 9 | US-10-195-883-48 | Sequence 48, Appl |
| 477 | 30 | 55.6 | 457 | 9 | US-10-195-888-48 | Sequence 48, Appl |
| 478 | 30 | 55.6 | 457 | 9 | US-10-195-889-48 | Sequence 48, Appl |
| 479 | 30 | 55.6 | 457 | 9 | US-10-216-161A-19 | Sequence 19, Appl |
| 480 | 30 | 55.6 | 457 | 11 | US-11-102-240-12 | Sequence 12, Appl |
| 481 | 30 | 55.6 | 457 | 11 | US-11-103-195-12 | Sequence 12, Appl |
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| 483 | 30 | 55.6 | 516 | 9 | US-10-455-772-1004 | Sequence 1004, Ap |
| 484 | 30 | 55.6 | 520 | 11 | US-11-096-568A-28120 | Sequence 28120, A |
| 485 | 30 | 55.6 | 546 | 11 | US-11-072-512-2051 | Sequence 2051, Ap |
| 486 | 30 | 55.6 | 551 | 11 | US-11-143-984A-32 | Sequence 32, Appl |
| 487 | 30 | 55.6 | 581 | 9 | US-10-763-712A-28 | Sequence 28, Appl |
| 488 | 30 | 55.6 | 581 | 9 | US-10-763-712A-92 | Sequence 92, Appl |
| 489 | 30 | 55.6 | 607 | 9 | US-10-131-826A-102 | Sequence 102, App |
| 490 | 30 | 55.6 | 607 | 9 | US-10-973-115B-102 | Sequence 102, App |
| 491 | 30 | 55.6 | 607 | 9 | US-10-137-873A-102 | Sequence 102, App |
| 492 | 30 | 55.6 | 607 | 9 | US-10-152-370-102 | Sequence 102, App |
| 493 | 30 | 55.6 | 607 | 11 | US-11-290-153-102 | Sequence 102, App |
| 494 | 30 | 55.6 | 706 | 11 | US-11-188-298-9665 | Sequence 9665, Ap |
| 495 | 30 | 55.6 | 719 | 9 | US-10-511-538-247 | Sequence 247, App |
| 496 | 30 | 55.6 | 723 | 11 | US-11-072-512-2572 | Sequence 2572, Ap |
| 497 | 30 | 55.6 | 1034 | 11 | US-11-072-512-2343 | Sequence 2343, Ap |
| 498 | 30 | 55.6 | 1188 | 11 | US-11-143-984A-27 | Sequence 27, Appl |
| 499 | 30 | 55.6 | 1255 | 9 | US-10-942-698-4 | Sequence 4, Appli |
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| 501 | 30 | 55.6 | 1255 | 11 | US-11-052-554A-265 | Sequence 265, App |
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| 503 | 30 | 55.6 | 1255 | 11 | US-11-052-554A-267 | Sequence 267, App |
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| 505 | 30 | 55.6 | 1255 | 11 | US-11-052-554A-269 | Sequence 269, App |
| 506 | 30 | 55.6 | 1255 | 11 | US-11-052-554A-270 | Sequence 270, App |
| 507 | 30 | 55.6 | 1255 | 11 | US-11-052-554A-271 | Sequence 271, App |
| 508 | 30 | 55.6 | 1255 | 11 | US-11-052-554A-272 | Sequence 272, App |
| 509 | 30 | 55.6 | 1255 | 11 | US-11-052-554A-273 | Sequence 273, App |
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| 511 | 30 | 55.6 | 1255 | 11 | US-11-052-554A-275 | Sequence 275, App |
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| 519 | 29 | 53.7 | 10 | 9 | US-10-530-061-533 | Sequence 533, App |
| 520 | 29 | 53.7 | 13 | 11 | US-11-178-737-11 | Sequence 11, Appl |
| 521 | 29 | 53.7 | 18 | 11 | US-11-004-399-1456 | Sequence 1456, Ap |
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| 524 | 29 | 53.7 | 22 | 11 | US-11-119-293-14 | Sequence 14, Appl |
| 525 | 29 | 53.7 | 23 | 11 | US-11-119-293-21 | Sequence 21, Appl |
| 526 | 29 | 53.7 | 24 | 11 | US-11-119-293-10 | Sequence 10, Appl |
| 527 | 29 | 53.7 | 25 | 11 | US-11-119-293-17 | Sequence 17, Appl |
| 528 | 29 | 53.7 | 31 | 11 | US-11-072-170A-15 | Sequence 15, Appl |
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| 530 | 29 | 53.7 | 36 | 8 | US-10-516-079-29 | Sequence 29, Appl |
| 531 | 29 | 53.7 | 38 | 8 | US-10-516-079-27 | Sequence 27, Appl |
| 532 | 29 | 53.7 | 38 | 9 | US-10-971-559-20 | Sequence 20, Appl |

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| 536 | 29 | 53.7 | 42 | 11 | US-11-166-609-34 | Sequence 34, Appl |
| 537 | 29 | 53.7 | 45 | 11 | US-11-224-807-22 | Sequence 22, Appl |
| 538 | 29 | 53.7 | 47 | 11 | US-11-172-571-65 | Sequence 65, Appl |
| 539 | 29 | 53.7 | 58 | 11 | US-11-178-737-5 | Sequence 5, Appli |
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| 550 | 29 | 53.7 | 105 | 9 | US-10-793-626-1028 | Sequence 1028, Ap |
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| 553 | 29 | 53.7 | 124 | 9 | US-10-475-075-181 | Sequence 181, App |
| 554 | 29 | 53.7 | 124 | 9 | US-10-475-075-465 | Sequence 465, App |
| 555 | 29 | 53.7 | 124 | 9 | US-10-475-075-466 | Sequence 466, App |
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| 575 | 29 | 53.7 | 169 | 11 | US-11-096-568A-20299 | Sequence 20299, A |
| 576 | 29 | 53.7 | 175 | 11 | US-11-087-099-781 | Sequence 781, App |
| 577 | 29 | 53.7 | 175 | 11 | US-11-087-099-6466 | Sequence 6466, Ap |
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| 624 | 29 | 53.7 | 350 | 11 | US-11-024-959-379 | Sequence 379, App |
| 625 | 29 | 53.7 | 358 | 11 | US-11-188-298-9968 | Sequence 9968, Ap |
| 626 | 29 | 53.7 | 361 | 11 | US-11-188-298-17408 | Sequence 17408, A |
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| 634 | 29 | 53.7 | 382 | 11 | US-11-124-368A-174 | Sequence 174, App |
| 635 | 29 | 53.7 | 382 | 11 | US-11-127-877-58 | Sequence 58, Appl |
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| 637 | 29 | 53.7 | 391 | 9 | US-10-995-561-892 | Sequence 892, App |
| 638 | 29 | 53.7 | 391 | 9 | US-10-995-561-893 | Sequence 893, App |
| 639 | 29 | 53.7 | 410 | 11 | US-11-096-568A-3099 | Sequence 3099, Ap |
| 640 | 29 | 53.7 | 411 | 11 | US-11-096-568A-3098 | Sequence 3098, Ap |
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| 642 | 29 | 53.7 | 416 | 11 | US-11-087-099-1321 | Sequence 1321, Ap |
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| 646 | 29 | 53.7 | 439 | 11 | US-11-087-099-3928 | Sequence 3928, Ap |
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| 648 | 29 | 53.7 | 439 | 11 | US-11-087-099-8125 | Sequence 8125, Ap |
| 649 | 29 | 53.7 | 439 | 11 | US-11-087-099-9275 | Sequence 9275, Ap |
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| 651 | 29 | 53.7 | 453 | 11 | US-11-264-096-712 | Sequence 712, App |
| 652 | 29 | 53.7 | 453 | 11 | US-11-264-096-713 | Sequence 713, App |
| 653 | 29 | 53.7 | 459 | 11 | US-11-096-568A-3097 | Sequence 3097, Ap |
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| 655 | 29 | 53.7 | 476 | 9 | US-10-784-004-1220 | Sequence 1220, Ap |
| 656 | 29 | 53.7 | 482 | 11 | US-11-188-298-5046 | Sequence 5046, Ap |
| 657 | 29 | 53.7 | 497 | 11 | US-11-087-099-809 | Sequence 809, App |
| 658 | 29 | 53.7 | 512 | 11 | US-11-188-298-13770 | Sequence 13770, A |
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| 661 | 29 | 53.7 | 561 | 8 | US-10-505-928-163 | Sequence 163, App |
| 662 | 29 | 53.7 | 567 | 9 | US-10-501-035-257 | Sequence 257, App |
| 663 | 29 | 53.7 | 579 | 9 | US-10-763-712A-94 | Sequence 94, Appl |
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| 669 | 29 | 53.7 | 647 | 11 | US-11-096-568A-27525 | Sequence 27525, A |
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| 683 | 29 | 53.7 | 832 | 11 | US-11-098-686-10182 | Sequence 10182, A |
| 684 | 29 | 53.7 | 963 | 11 | US-11-188-298-4720 | Sequence 4720, Ap |
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| 686 | 29 | 53.7 | 1070 | 11 | US-11-000-463-721 | Sequence 721, App |
| 687 | 29 | 53.7 | 1125 | 11 | US-11-087-099-2396 | Sequence 2396, Ap |
| 688 | 29 | 53.7 | 1190 | 11 | US-11-096-568A-28022 | Sequence 28022, A |
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| 690 | 29 | 53.7 | 1249 | 11 | US-11-126-022-25 | Sequence 25, Appl |
| 691 | 29 | 53.7 | 1249 | 11 | US-11-126-022-30 | Sequence 30, Appl |
| 692 | 29 | 53.7 | 1355 | 11 | US-11-096-568A-28021 | Sequence 28021, A |
| 693 | 29 | 53.7 | 1366 | 11 | US-11-096-568A-28020 | Sequence 28020, A |
| 694 | 29 | 53.7 | 1508 | 11 | US-11-043-889-47 | Sequence 47, Appl |
| 695 | 29 | 53.7 | 1588 | 11 | US-11-043-889-37 | Sequence 37, Appl |
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| 698 | 28 | 51.9 | 8 | 11 | US-11-004-399-200 | Sequence 200, App |
| 699 | 28 | 51.9 | 8 | 11 | US-11-004-399-1336 | Sequence 1336, Ap |
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| 701 | 28 | 51.9 | 8 | 11 | US-11-004-399-3825 | Sequence 3825, Ap |
| 702 | 28 | 51.9 | 13 | 11 | US-11-178-737-12 | Sequence 12, Appl |
| 703 | 28 | 51.9 | 15 | 11 | US-11-149-757-25 | Sequence 25, Appl |
| 704 | 28 | 51.9 | 17 | 11 | US-11-149-757-31 | Sequence 31, Appl |
| 705 | 28 | 51.9 | 27 | 11 | US-11-052-168A-20 | Sequence 20, Appl |
| 706 | 28 | 51.9 | 27 | 11 | US-11-052-168A-25 | Sequence 25, Appl |
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| 709 | 28 | 51.9 | 38 | 9 | US-10-971-559-36 | Sequence 36, Appl |
| 710 | 28 | 51.9 | 38 | 9 | US-10-971-559-37 | Sequence 37, Appl |
| 711 | 28 | 51.9 | 38 | 11 | US-11-068-783-76 | Sequence 76, Appl |
| 712 | 28 | 51.9 | 40 | 11 | US-11-068-783-77 | Sequence 77, Appl |
| 713 | 28 | 51.9 | 47 | 9 | US-10-895-861-91 | Sequence 91, Appl |
| 714 | 28 | 51.9 | 49 | 11 | US-11-123-896-36 | Sequence 36, Appl |
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| 719 | 28 | 51.9 | 58 | 11 | US-11-178-737-9 | Sequence 9, Appli |
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| 721 | 28 | 51.9 | 71 | 11 | US-11-000-463-369 | Sequence 369, App |
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| 727 | 28 | 51.9 | 83 | 11 | US-11-004-399-3297 | Sequence 3297, Ap |
| 728 | 28 | 51.9 | 84 | 11 | US-11-096-568A-4521 | Sequence 4521, Ap |
| 729 | 28 | 51.9 | 85 | 11 | US-11-079-463-9667 | Sequence 9667, Ap |
| 730 | 28 | 51.9 | 87 | 11 | US-11-184-574-8 | Sequence 8, Appli |
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| 732 | 28 | 51.9 | 97 | 11 | US-11-152-601-9 | Sequence 9, Appli |
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| 736 | 28 | 51.9 | 102 | 11 | US-11-064-774A-249 | Sequence 249, App |
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| 738 | 28 | 51.9 | 102 | 11 | US-11-064-774A-257 | Sequence 257, App |
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| 740 | 28 | 51.9 | 102 | 11 | US-11-064-774A-265 | Sequence 265, App |
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| 743 | 28 | 51.9 | 102 | 11 | US-11-064-774A-275 | Sequence 275, App |
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| 745 | 28 | 51.9 | 102 | 11 | US-11-064-774A-283 | Sequence 283, App |
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| 747 | 28 | 51.9 | 102 | 11 | US-11-064-774A-291 | Sequence 291, App |
| 748 | 28 | 51.9 | 102 | 11 | US-11-064-774A-297 | Sequence 297, App |
| 749 | 28 | 51.9 | 102 | 11 | US-11-064-774A-299 | Sequence 299, App |
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| 771 | 28 | 51.9 | 102 | 11 | US-11-064-774A-771 | Sequence 771, App |
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| 773 | 28 | 51.9 | 102 | 11 | US-11-064-774A-779 | Sequence 779, App |
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| 778 | 28 | 51.9 | 102 | 11 | US-11-064-774A-801 | Sequence 801, App |
| 779 | 28 | 51.9 | 102 | 11 | US-11-064-774A-803 | Sequence 803, App |
| 780 | 28 | 51.9 | 102 | 11 | US-11-064-774A-809 | Sequence 809, App |
| 781 | 28 | 51.9 | 102 | 11 | US-11-064-774A-811 | Sequence 811, App |
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| 799 | 28 | 51.9 | 102 | 11 | US-11-264-096-1712 | Sequence 1712, Ap |
| 800 | 28 | 51.9 | 102 | 11 | US-11-264-096-1715 | Sequence 1715, Ap |
| 801 | 28 | 51.9 | 103 | 11 | US-11-064-774A-245 | Sequence 245, App |
| 802 | 28 | 51.9 | 103 | 11 | US-11-064-774A-247 | Sequence 247, App |
| 803 | 28 | 51.9 | 103 | 11 | US-11-064-774A-253 | Sequence 253, App |
| 804 | 28 | 51.9 | 103 | 11 | US-11-064-774A-255 | Sequence 255, App |
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| 814 | 28 | 51.9 | 103 | 11 | US-11-064-774A-295 | Sequence 295, App |
| 815 | 28 | 51.9 | 103 | 11 | US-11-064-774A-301 | Sequence 301, App |
| 816 | 28 | 51.9 | 103 | 11 | US-11-064-774A-303 | Sequence 303, App |
| 817 | 28 | 51.9 | 103 | 11 | US-11-064-774A-373 | Sequence 373, App |
| 818 | 28 | 51.9 | 103 | 11 | US-11-064-774A-375 | Sequence 375, App |
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| 820 | 28 | 51.9 | 103 | 11 | US-11-064-774A-383 | Sequence 383, App |
| 821 | 28 | 51.9 | 103 | 11 | US-11-064-774A-389 | Sequence 389, App |
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| 823 | 28 | 51.9 | 103 | 11 | US-11-064-774A-397 | Sequence 397, App |
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| 852 | 28 | 51.9 | 103 | 11 | US-11-064-774A-901 | Sequence 901, App |
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| 970 | 28 | 51.9 | 105 | 11 | US-11-064-774A-1029 | Sequence 1029, Ap |

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| 996 | 28 | 51.9 | 105 | 11 | US-11-064-774A-1197 | Sequence 1197, Ap |
| 997 | 28 | 51.9 | 105 | 11 | US-11-064-774A-1199 | Sequence 1199, Ap |
| 998 | 28 | 51.9 | 105 | 11 | US-11-064-774A-1210 | Sequence 1210, Ap |
| 999 | 28 | 51.9 | 107 | 11 | US-11-188-298-20880 | Sequence 20880, A |
| 1000 | 28 | 51.9 | 110 | 9 | US-10-986-405-272 | Sequence 272, App |

ALIGNMENTS

```
RESULT 1
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-13

  Query Match             100.0%;  Score 54;  DB 9;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 0.27;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        136 CMSCCRSSR 144


RESULT 2
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
;  APPLICANT: HealthBanks Biotech CO. LTD.
;  TITLE OF INVENTION: Fusion protein for inhibiting cervcal cancer
;  FILE REFERENCE: P7819/0613
;  CURRENT APPLICATION NUMBER: US/11/206,138
;  CURRENT FILING DATE:  2005-08-18
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-11-206-138-3

  Query Match             100.0%;  Score 54;  DB 11;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.28;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        143 CMSCCRSSR 151


RESULT 3
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-1

  Query Match             100.0%;  Score 54;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.38;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        136 CMSCCRSSR 144


RESULT 4
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
```

```
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-3

  Query Match            100.0%;  Score 54;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.38;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        136 CMSCCRSSR 144


RESULT 5
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-5

  Query Match            100.0%;  Score 54;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.38;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        136 CMSCCRSSR 144


RESULT 6
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-7

  Query Match            100.0%;  Score 54;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.38;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        233 CMSCCRSSR 241


RESULT 7
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-9

  Query Match            100.0%;  Score 54;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.38;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |||||||||
Db        233 CMSCCRSSR 241


RESULT 8
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-11

  Query Match            100.0%;  Score 54;  DB 9;  Length 248;
```

Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 CMSCCRSSR 9
              |||||||||
Db        233 CMSCCRSSR 241
```

RESULT 9
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANG, XIAOWU
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; TITLE OF INVENTION: RECOMBINANT REPLICON
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; CURRENT FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match 100.0%; Score 54; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 CMSCCRSSR 9
              |||||||||
Db        241 CMSCCRSSR 249
```

RESULT 10
US-10-530-061-514
; Sequence 514, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 514
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-514

Query Match 83.3%; Score 45; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.75;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          2 MSCCRSSR 9
              ||||||||
Db          1 MSCCRSSR 8
```

RESULT 11
US-10-530-061-513
; Sequence 513, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 513
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-513

Query Match 77.8%; Score 42; DB 9; Length 10;
Best Local Similarity 87.5%; Pred. No. 1.9;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```
Qy          2 MSCCRSSR 9
              |:||||||
Db          1 MTCCRSSR 8
```

RESULT 12
US-10-530-061-511
; Sequence 511, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 511
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-511

Query Match 75.9%; Score 41; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 CMSCCR 6
              ||||||
Db          5 CMSCCR 10
```

RESULT 13

```
US-11-096-568A-26773
; Sequence 26773, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 26773
;   LENGTH: 204
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(204)
;   OTHER INFORMATION: Ceres Seq. ID no. 13600327
US-11-096-568A-26773

  Query Match             75.9%;  Score 41;  DB 11;  Length 204;
  Best Local Similarity   66.7%;  Pred. No. 22;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |:||||  |
Db        124 CLSCCRRCR 132


RESULT 14
US-11-096-568A-1257
; Sequence 1257, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1257
;   LENGTH: 251
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(251)
;   OTHER INFORMATION: Ceres Seq. ID no. 13624031
US-11-096-568A-1257

  Query Match             75.9%;  Score 41;  DB 11;  Length 251;
  Best Local Similarity   66.7%;  Pred. No. 25;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |:||||  |
Db        171 CLSCCRRCR 179


RESULT 15
US-11-096-568A-1259
; Sequence 1259, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1259
;   LENGTH: 251
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(251)
;   OTHER INFORMATION: Ceres Seq. ID no. 16625722
US-11-096-568A-1259

  Query Match             75.9%;  Score 41;  DB 11;  Length 251;
  Best Local Similarity   66.7%;  Pred. No. 25;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |:||||  |
Db        171 CLSCCRRCR 179


RESULT 16
US-11-096-568A-1256
; Sequence 1256, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides I
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1256
;   LENGTH: 280
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(280)
;   OTHER INFORMATION: Ceres Seq. ID no. 13624030
US-11-096-568A-1256

  Query Match             75.9%;  Score 41;  DB 11;  Length 280;
  Best Local Similarity   66.7%;  Pred. No. 27;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |:||||  |
Db        200 CLSCCRRCR 208


RESULT 17
US-10-530-061-606
; Sequence 606, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 606
;   LENGTH: 9
;   TYPE: PRT
```

; ORGANISM: Human papillomavirus
US-10-530-061-606

Query Match 74.1%; Score 40; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 SCCRSSR 9
||||||| 
Db 1 SCCRSSR 7

RESULT 18
US-10-530-061-516
; Sequence 516, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 516
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-516

Query Match 74.1%; Score 40; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 SCCRSSR 9
||||||| 
Db 1 SCCRSSR 7

RESULT 19
US-11-004-399-2378
; Sequence 2378, Application US/11004399
; Publication No. US20060053516A1
; GENERAL INFORMATION:
; APPLICANT: Chye, Mee Lee
; APPLICANT: Li, Hong Ye
; APPLICANT: Ramalingam, Sathiskumar
; APPLICANT: Poon, Leo Lit Man
; APPLICANT: Peiris, Joseph Sriyal Malik
; TITLE OF INVENTION: Genetically Modified Plants Comprising SARS-CoV Viral Nucleotide
; TITLE OF INVENTION: Sequences and Methods of Use Thereof For Immunization Against SA
; FILE REFERENCE: 2587/73166/RDK
; CURRENT APPLICATION NUMBER: US/11/004,399
; CURRENT FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: US 60/527,637
; PRIOR FILING DATE: 2003-12-03
; NUMBER OF SEQ ID NOS: 4043
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2378
; LENGTH: 67
; TYPE: PRT
; ORGANISM: SARS-CoV Virus
US-11-004-399-2378

Query Match 72.2%; Score 39; DB 11; Length 67;
Best Local Similarity 71.4%; Pred. No. 19;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CMSCCRS 7
||:|||:
Db 53 CMNCCRN 59

RESULT 20
US-10-982-145-72
; Sequence 72, Application US/10982145
; Publication No. US20050272645A1
; GENERAL INFORMATION:
; APPLICANT: Robert Lehrer
; APPLICANT: Alan Waring
; APPLICANT: Alexander Cole
; APPLICANT: Teresa Hong
; TITLE OF INVENTION: Retrocyclins: Antiviral and
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: UCLA-001CIP2
; CURRENT APPLICATION NUMBER: US/10/982,145
; CURRENT FILING DATE: 2004-11-05
; PRIOR APPLICATION NUMBER: US03/14106
; PRIOR FILING DATE: 2003-05-06
; PRIOR APPLICATION NUMBER: 10/141,645
; PRIOR FILING DATE: 2002-05-06
; PRIOR APPLICATION NUMBER: US02/12353
; PRIOR FILING DATE: 2002-04-18
; PRIOR APPLICATION NUMBER: 60/284,855
; PRIOR FILING DATE: 2001-04-18
; NUMBER OF SEQ ID NOS: 135
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 72
; LENGTH: 141
; TYPE: PRT
; ORGANISM: Rhesus monkey
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: 113
; OTHER INFORMATION: Xaa = Any Amino Acid
US-10-982-145-72

Query Match 72.2%; Score 39; DB 9; Length 141;
Best Local Similarity 66.7%; Pred. No. 32;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CMSCCRSSR 9
| |||:||
Db 92 CRICCRASR 100

RESULT 21
US-10-982-145-73
; Sequence 73, Application US/10982145
; Publication No. US20050272645A1
; GENERAL INFORMATION:
; APPLICANT: Robert Lehrer
; APPLICANT: Alan Waring
; APPLICANT: Alexander Cole
; APPLICANT: Teresa Hong
; TITLE OF INVENTION: Retrocyclins: Antiviral and
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: UCLA-001CIP2
; CURRENT APPLICATION NUMBER: US/10/982,145
; CURRENT FILING DATE: 2004-11-05
; PRIOR APPLICATION NUMBER: US03/14106
; PRIOR FILING DATE: 2003-05-06
; PRIOR APPLICATION NUMBER: 10/141,645
; PRIOR FILING DATE: 2002-05-06
; PRIOR APPLICATION NUMBER: US02/12353
; PRIOR FILING DATE: 2002-04-18
; PRIOR APPLICATION NUMBER: 60/284,855
; PRIOR FILING DATE: 2001-04-18

```
;  NUMBER OF SEQ ID NOS: 135
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 73
;    LENGTH: 141
;    TYPE: PRT
;    ORGANISM: Pig-tailed macaque
;    FEATURE:
;    NAME/KEY: VARIANT
;    LOCATION: 113
;    OTHER INFORMATION: Xaa = Any Amino Acid
US-10-982-145-73

  Query Match             72.2%;  Score 39;  DB 9;  Length 141;
  Best Local Similarity   66.7%;  Pred. No. 32;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |  |||:||
Db         92 CRICCRASR 100


RESULT 22
US-10-530-061-512
; Sequence 512, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 512
;    LENGTH: 10
;    TYPE: PRT
;    ORGANISM: Human papillomavirus
US-10-530-061-512

  Query Match             70.4%;  Score 38;  DB 9;  Length 10;
  Best Local Similarity   83.3%;  Pred. No. 7;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CMSCCR 6
              |||||:
Db          5 CMSCCK 10


RESULT 23
US-11-004-399-886
; Sequence 886, Application US/11004399
; Publication No. US20060053516A1
; GENERAL INFORMATION:
;  APPLICANT: Chye, Mee Lee
;  APPLICANT:  Li, Hong Ye
;  APPLICANT:  Ramalingam, Sathiskumar
;  APPLICANT:  Poon, Leo Lit Man
;  APPLICANT:  Peiris, Joseph Sriyal Malik
;  TITLE OF INVENTION: Genetically Modified Plants Comprising SARS-CoV Viral Nucleotide
;  TITLE OF INVENTION:  Sequences and Methods of Use Thereof For Immunization Against SA
;  FILE REFERENCE: 2587/73166/RDK
;  CURRENT APPLICATION NUMBER: US/11/004,399
;  CURRENT FILING DATE:  2004-12-03
;  PRIOR APPLICATION NUMBER: US 60/527,637
;  PRIOR FILING DATE: 2003-12-03
;  NUMBER OF SEQ ID NOS: 4043
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 886
;    LENGTH: 45
;    TYPE: PRT
;    ORGANISM: SARS-CoV Virus
US-11-004-399-886

  Query Match             70.4%;  Score 38;  DB 11;  Length 45;
  Best Local Similarity   66.7%;  Pred. No. 20;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |:||| | |
Db         30 CISCCFSER 38


RESULT 24
US-10-644-807-200
; Sequence 200, Application US/10644807
; Publication No. US20060057582A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: 83 Human Secreted Proteins
;  FILE REFERENCE: PS735
;  CURRENT APPLICATION NUMBER: US/10/644,807
;  CURRENT FILING DATE:  2003-08-21
;  PRIOR APPLICATION NUMBER: PCT/US02/05064
;  PRIOR FILING DATE: 2002-02-21
;  PRIOR APPLICATION NUMBER: 60/270,658
;  PRIOR FILING DATE: 2001-02-23
;  PRIOR APPLICATION NUMBER: 60/304,444
;  PRIOR FILING DATE: 2001-07-12
;  NUMBER OF SEQ ID NOS: 445
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 200
;    LENGTH: 95
;    TYPE: PRT
;    ORGANISM: Homo sapiens
US-10-644-807-200

  Query Match             68.5%;  Score 37;  DB 9;  Length 95;
  Best Local Similarity   66.7%;  Pred. No. 46;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              | ||||  |
Db         60 CGSCCRGRR 68


RESULT 25
US-10-644-807-283
; Sequence 283, Application US/10644807
; Publication No. US20060057582A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: 83 Human Secreted Proteins
;  FILE REFERENCE: PS735
;  CURRENT APPLICATION NUMBER: US/10/644,807
;  CURRENT FILING DATE:  2003-08-21
;  PRIOR APPLICATION NUMBER: PCT/US02/05064
;  PRIOR FILING DATE: 2002-02-21
;  PRIOR APPLICATION NUMBER: 60/270,658
;  PRIOR FILING DATE: 2001-02-23
;  PRIOR APPLICATION NUMBER: 60/304,444
;  PRIOR FILING DATE: 2001-07-12
;  NUMBER OF SEQ ID NOS: 445
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 283
;    LENGTH: 95
;    TYPE: PRT
;    ORGANISM: Homo sapiens
;    FEATURE:
```

```
;   NAME/KEY: SITE
;   LOCATION: (80)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-644-807-283

  Query Match             68.5%;  Score 37;  DB 9;  Length 95;
  Best Local Similarity   66.7%;  Pred. No. 46;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              | ||||  |
Db         60 CGSCCRGRR 68


RESULT 26
US-11-087-099-8091
; Sequence 8091, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 8091
;   LENGTH: 222
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(222)
;   OTHER INFORMATION: unsure at all Xaa locations
US-11-087-099-8091

  Query Match             68.5%;  Score 37;  DB 11;  Length 222;
  Best Local Similarity   75.0%;  Pred. No. 83;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              | ||| ||
Db        201 CTSCCSSS 208


RESULT 27
US-11-087-099-1572
; Sequence 1572, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 1572
;   LENGTH: 374
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(374)
;   OTHER INFORMATION: unsure at all Xaa locations
US-11-087-099-1572

  Query Match             68.5%;  Score 37;  DB 11;  Length 374;
  Best Local Similarity   55.6%;  Pred. No. 1.2e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSSR 9
              |:||| : |
Db         71 CLSCCSTPR 79


RESULT 28
US-11-018-868-136
; Sequence 136, Application US/11018868
; Publication No. US20060034871A1
; GENERAL INFORMATION:
;  APPLICANT: Chiron Corporation
;  APPLICANT:  Grandi, Guido
;  APPLICANT:  Ratti, Guilio
;  APPLICANT:  Bonci, Alessandro
;  APPLICANT:  Finco, Oretta
;  TITLE OF INVENTION: Immunogenic Compositions for Chlamydia trachomatis
;  FILE REFERENCE: 002441.00099 (PP23152.001)
;  CURRENT APPLICATION NUMBER: US/11/018,868
;  CURRENT FILING DATE:  2004-12-22
;  NUMBER OF SEQ ID NOS: 186
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 136
;   LENGTH: 591
;   TYPE: PRT
;   ORGANISM: Chlamydia trachomatis
US-11-018-868-136

  Query Match             68.5%;  Score 37;  DB 11;  Length 591;
  Best Local Similarity   62.5%;  Pred. No. 1.6e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              | |||: |
Db        393 CFSCCKGS 400


RESULT 29
US-11-096-568A-20238
; Sequence 20238, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 20238
;   LENGTH: 69
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(69)
;   OTHER INFORMATION: Ceres Seq. ID no. 12380971
US-11-096-568A-20238

  Query Match             66.7%;  Score 36;  DB 11;  Length 69;
  Best Local Similarity   75.0%;  Pred. No. 51;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              |:| ||||
Db         18 CISACRSS 25


RESULT 30
US-11-096-568A-20237
; Sequence 20237, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
```

```
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 20237
;   LENGTH: 79
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(79)
;   OTHER INFORMATION: Ceres Seq. ID no. 12380970
US-11-096-568A-20237

  Query Match             66.7%;  Score 36;  DB 11;  Length 79;
  Best Local Similarity   75.0%;  Pred. No. 56;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              |:| ||||
Db         28 CISACRSS 35


RESULT 31
US-11-079-463-7574
; Sequence 7574, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PATH00-03DIV2
;  CURRENT APPLICATION NUMBER: US/11/079,463
;  CURRENT FILING DATE:  2005-03-14
;  PRIOR APPLICATION NUMBER: US 60/128,705
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/540,209
;  PRIOR FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 7574
;   LENGTH: 522
;   TYPE: PRT
;   ORGANISM: B.fragilis
US-11-079-463-7574

  Query Match             66.7%;  Score 36;  DB 11;  Length 522;
  Best Local Similarity   100.0%;  Pred. No. 2.1e+02;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 CCRSSR 9
              ||||||
Db        514 CCRSSR 519


RESULT 32
US-11-139-041-356
; Sequence 356, Application US/11139041
; Publication No. US20060083749A1
; GENERAL INFORMATION:
;  APPLICANT: Fanger, Gary R.
;  APPLICANT:  Hirst, Shannon Kathleen
;  APPLICANT:  Dillon, Davin C.
;  APPLICANT:  Foy, Teresa M.
;  APPLICANT:  Houghton, Raymond L.
;  APPLICANT:  Persing, David H.
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
;  TITLE OF INVENTION:  AND DIAGNOSIS OF BREAST CANCER
;  FILE REFERENCE: 210121.419C15
;  CURRENT APPLICATION NUMBER: US/11/139,041
;  CURRENT FILING DATE:  2005-05-25
;  PRIOR APPLICATION NUMBER: US 10/079,137
;  PRIOR FILING DATE: 2002-02-20
;  PRIOR APPLICATION NUMBER: US 09/924,400
;  PRIOR FILING DATE: 2001-08-07
;  PRIOR APPLICATION NUMBER: US 09/810,936
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: US 09/699,295
;  PRIOR FILING DATE: 2000-10-26
;  PRIOR APPLICATION NUMBER: US 09/590,583
;  PRIOR FILING DATE: 2000-06-08
;  PRIOR APPLICATION NUMBER: US 09/577,505
;  PRIOR FILING DATE: 2000-05-24
;  PRIOR APPLICATION NUMBER: US 09/534,825
;  PRIOR FILING DATE: 2000-03-23
;  PRIOR APPLICATION NUMBER: US 09/429,755
;  PRIOR FILING DATE: 1999-10-28
;  PRIOR APPLICATION NUMBER: US 09/289,198
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/062,451
;  PRIOR FILING DATE: 1998-04-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 428
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 356
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-139-041-356

  Query Match             64.8%;  Score 35;  DB 11;  Length 20;
  Best Local Similarity   62.5%;  Pred. No. 30;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              |  ||| |
Db         10 CFPCCRES 17


RESULT 33
US-11-139-041-357
; Sequence 357, Application US/11139041
; Publication No. US20060083749A1
; GENERAL INFORMATION:
;  APPLICANT: Fanger, Gary R.
;  APPLICANT:  Hirst, Shannon Kathleen
;  APPLICANT:  Dillon, Davin C.
;  APPLICANT:  Foy, Teresa M.
;  APPLICANT:  Houghton, Raymond L.
;  APPLICANT:  Persing, David H.
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
;  TITLE OF INVENTION:  AND DIAGNOSIS OF BREAST CANCER
;  FILE REFERENCE: 210121.419C15
;  CURRENT APPLICATION NUMBER: US/11/139,041
;  CURRENT FILING DATE:  2005-05-25
;  PRIOR APPLICATION NUMBER: US 10/079,137
;  PRIOR FILING DATE: 2002-02-20
;  PRIOR APPLICATION NUMBER: US 09/924,400
;  PRIOR FILING DATE: 2001-08-07
;  PRIOR APPLICATION NUMBER: US 09/810,936
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: US 09/699,295
;  PRIOR FILING DATE: 2000-10-26
;  PRIOR APPLICATION NUMBER: US 09/590,583
;  PRIOR FILING DATE: 2000-06-08
;  PRIOR APPLICATION NUMBER: US 09/577,505
;  PRIOR FILING DATE: 2000-05-24
;  PRIOR APPLICATION NUMBER: US 09/534,825
;  PRIOR FILING DATE: 2000-03-23
;  PRIOR APPLICATION NUMBER: US 09/429,755
;  PRIOR FILING DATE: 1999-10-28
;  PRIOR APPLICATION NUMBER: US 09/289,198
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/062,451
;  PRIOR FILING DATE: 1998-04-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 428
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 357
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```
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-139-041-357

  Query Match             64.8%;  Score 35;  DB 11;  Length 20;
  Best Local Similarity   62.5%;  Pred. No. 30;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              |  ||| |
Db          5 CFPCCRES 12


RESULT 34
US-11-139-041-363
; Sequence 363, Application US/11139041
; Publication No. US20060083749A1
; GENERAL INFORMATION:
;  APPLICANT: Fanger, Gary R.
;  APPLICANT:  Hirst, Shannon Kathleen
;  APPLICANT:  Dillon, Davin C.
;  APPLICANT:  Foy, Teresa M.
;  APPLICANT:  Houghton, Raymond L.
;  APPLICANT:  Persing, David H.
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
;  TITLE OF INVENTION:  AND DIAGNOSIS OF BREAST CANCER
;  FILE REFERENCE: 210121.419C15
;  CURRENT APPLICATION NUMBER: US/11/139,041
;  CURRENT FILING DATE:  2005-05-25
;  PRIOR APPLICATION NUMBER: US 10/079,137
;  PRIOR FILING DATE: 2002-02-20
;  PRIOR APPLICATION NUMBER: US 09/924,400
;  PRIOR FILING DATE: 2001-08-07
;  PRIOR APPLICATION NUMBER: US 09/810,936
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: US 09/699,295
;  PRIOR FILING DATE: 2000-10-26
;  PRIOR APPLICATION NUMBER: US 09/590,583
;  PRIOR FILING DATE: 2000-06-08
;  PRIOR APPLICATION NUMBER: US 09/577,505
;  PRIOR FILING DATE: 2000-05-24
;  PRIOR APPLICATION NUMBER: US 09/534,825
;  PRIOR FILING DATE: 2000-03-23
;  PRIOR APPLICATION NUMBER: US 09/429,755
;  PRIOR FILING DATE: 1999-10-28
;  PRIOR APPLICATION NUMBER: US 09/289,198
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/062,451
;  PRIOR FILING DATE: 1998-04-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 428
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 363
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-139-041-363

  Query Match             64.8%;  Score 35;  DB 11;  Length 20;
  Best Local Similarity   62.5%;  Pred. No. 30;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              |  ||| |
Db         12 CFPCCRGS 19


RESULT 35
US-11-139-041-364
; Sequence 364, Application US/11139041
; Publication No. US20060083749A1
; GENERAL INFORMATION:
;  APPLICANT: Fanger, Gary R.
;  APPLICANT:  Hirst, Shannon Kathleen
;  APPLICANT:  Dillon, Davin C.
;  APPLICANT:  Foy, Teresa M.
;  APPLICANT:  Houghton, Raymond L.
;  APPLICANT:  Persing, David H.
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
;  TITLE OF INVENTION:  AND DIAGNOSIS OF BREAST CANCER
;  FILE REFERENCE: 210121.419C15
;  CURRENT APPLICATION NUMBER: US/11/139,041
;  CURRENT FILING DATE:  2005-05-25
;  PRIOR APPLICATION NUMBER: US 10/079,137
;  PRIOR FILING DATE: 2002-02-20
;  PRIOR APPLICATION NUMBER: US 09/924,400
;  PRIOR FILING DATE: 2001-08-07
;  PRIOR APPLICATION NUMBER: US 09/810,936
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: US 09/699,295
;  PRIOR FILING DATE: 2000-10-26
;  PRIOR APPLICATION NUMBER: US 09/590,583
;  PRIOR FILING DATE: 2000-06-08
;  PRIOR APPLICATION NUMBER: US 09/577,505
;  PRIOR FILING DATE: 2000-05-24
;  PRIOR APPLICATION NUMBER: US 09/534,825
;  PRIOR FILING DATE: 2000-03-23
;  PRIOR APPLICATION NUMBER: US 09/429,755
;  PRIOR FILING DATE: 1999-10-28
;  PRIOR APPLICATION NUMBER: US 09/289,198
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/062,451
;  PRIOR FILING DATE: 1998-04-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 428
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 364
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-139-041-364

  Query Match             64.8%;  Score 35;  DB 11;  Length 20;
  Best Local Similarity   62.5%;  Pred. No. 30;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              |  ||| |
Db          7 CFPCCRGS 14


RESULT 36
US-11-139-041-365
; Sequence 365, Application US/11139041
; Publication No. US20060083749A1
; GENERAL INFORMATION:
;  APPLICANT: Fanger, Gary R.
;  APPLICANT:  Hirst, Shannon Kathleen
;  APPLICANT:  Dillon, Davin C.
;  APPLICANT:  Foy, Teresa M.
;  APPLICANT:  Houghton, Raymond L.
;  APPLICANT:  Persing, David H.
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
;  TITLE OF INVENTION:  AND DIAGNOSIS OF BREAST CANCER
;  FILE REFERENCE: 210121.419C15
;  CURRENT APPLICATION NUMBER: US/11/139,041
;  CURRENT FILING DATE:  2005-05-25
;  PRIOR APPLICATION NUMBER: US 10/079,137
;  PRIOR FILING DATE: 2002-02-20
;  PRIOR APPLICATION NUMBER: US 09/924,400
;  PRIOR FILING DATE: 2001-08-07
;  PRIOR APPLICATION NUMBER: US 09/810,936
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: US 09/699,295
;  PRIOR FILING DATE: 2000-10-26
```

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;  PRIOR APPLICATION NUMBER: US 09/590,583
;  PRIOR FILING DATE: 2000-06-08
;  PRIOR APPLICATION NUMBER: US 09/577,505
;  PRIOR FILING DATE: 2000-05-24
;  PRIOR APPLICATION NUMBER: US 09/534,825
;  PRIOR FILING DATE: 2000-03-23
;  PRIOR APPLICATION NUMBER: US 09/429,755
;  PRIOR FILING DATE: 1999-10-28
;  PRIOR APPLICATION NUMBER: US 09/289,198
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/062,451
;  PRIOR FILING DATE: 1998-04-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 428
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 365
;    LENGTH: 20
;    TYPE: PRT
;    ORGANISM: Homo sapiens
US-11-139-041-365

  Query Match             64.8%;  Score 35;  DB 11;  Length 20;
  Best Local Similarity   62.5%;  Pred. No. 30;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              |  ||| |
Db          2 CFPCCRGS 9


RESULT 37
US-11-139-041-371
; Sequence 371, Application US/11139041
; Publication No. US20060083749A1
; GENERAL INFORMATION:
;  APPLICANT: Fanger, Gary R.
;  APPLICANT:  Hirst, Shannon Kathleen
;  APPLICANT:  Dillon, Davin C.
;  APPLICANT:  Foy, Teresa M.
;  APPLICANT:  Houghton, Raymond L.
;  APPLICANT:  Persing, David H.
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
;  TITLE OF INVENTION:  AND DIAGNOSIS OF BREAST CANCER
;  FILE REFERENCE: 210121.419C15
;  CURRENT APPLICATION NUMBER: US/11/139,041
;  CURRENT FILING DATE:  2005-05-25
;  PRIOR APPLICATION NUMBER: US 10/079,137
;  PRIOR FILING DATE: 2002-02-20
;  PRIOR APPLICATION NUMBER: US 09/924,400
;  PRIOR FILING DATE: 2001-08-07
;  PRIOR APPLICATION NUMBER: US 09/810,936
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: US 09/699,295
;  PRIOR FILING DATE: 2000-10-26
;  PRIOR APPLICATION NUMBER: US 09/590,583
;  PRIOR FILING DATE: 2000-06-08
;  PRIOR APPLICATION NUMBER: US 09/577,505
;  PRIOR FILING DATE: 2000-05-24
;  PRIOR APPLICATION NUMBER: US 09/534,825
;  PRIOR FILING DATE: 2000-03-23
;  PRIOR APPLICATION NUMBER: US 09/429,755
;  PRIOR FILING DATE: 1999-10-28
;  PRIOR APPLICATION NUMBER: US 09/289,198
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/062,451
;  PRIOR FILING DATE: 1998-04-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 428
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 371
;    LENGTH: 20
;    TYPE: PRT
;    ORGANISM: Homo sapiens
US-11-139-041-371

  Query Match             64.8%;  Score 35;  DB 11;  Length 20;
  Best Local Similarity   62.5%;  Pred. No. 30;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              |  ||| |
Db          9 CFPCCRGS 16


RESULT 38
US-11-139-041-372
; Sequence 372, Application US/11139041
; Publication No. US20060083749A1
; GENERAL INFORMATION:
;  APPLICANT: Fanger, Gary R.
;  APPLICANT:  Hirst, Shannon Kathleen
;  APPLICANT:  Dillon, Davin C.
;  APPLICANT:  Foy, Teresa M.
;  APPLICANT:  Houghton, Raymond L.
;  APPLICANT:  Persing, David H.
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
;  TITLE OF INVENTION:  AND DIAGNOSIS OF BREAST CANCER
;  FILE REFERENCE: 210121.419C15
;  CURRENT APPLICATION NUMBER: US/11/139,041
;  CURRENT FILING DATE:  2005-05-25
;  PRIOR APPLICATION NUMBER: US 10/079,137
;  PRIOR FILING DATE: 2002-02-20
;  PRIOR APPLICATION NUMBER: US 09/924,400
;  PRIOR FILING DATE: 2001-08-07
;  PRIOR APPLICATION NUMBER: US 09/810,936
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: US 09/699,295
;  PRIOR FILING DATE: 2000-10-26
;  PRIOR APPLICATION NUMBER: US 09/590,583
;  PRIOR FILING DATE: 2000-06-08
;  PRIOR APPLICATION NUMBER: US 09/577,505
;  PRIOR FILING DATE: 2000-05-24
;  PRIOR APPLICATION NUMBER: US 09/534,825
;  PRIOR FILING DATE: 2000-03-23
;  PRIOR APPLICATION NUMBER: US 09/429,755
;  PRIOR FILING DATE: 1999-10-28
;  PRIOR APPLICATION NUMBER: US 09/289,198
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/062,451
;  PRIOR FILING DATE: 1998-04-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 428
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 372
;    LENGTH: 20
;    TYPE: PRT
;    ORGANISM: Homo sapiens
US-11-139-041-372

  Query Match             64.8%;  Score 35;  DB 11;  Length 20;
  Best Local Similarity   62.5%;  Pred. No. 30;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              |  ||| |
Db          4 CFPCCRGS 11


RESULT 39
US-11-139-041-426
; Sequence 426, Application US/11139041
; Publication No. US20060083749A1
; GENERAL INFORMATION:
;  APPLICANT: Fanger, Gary R.
;  APPLICANT:  Hirst, Shannon Kathleen
;  APPLICANT:  Dillon, Davin C.
```

```
;  APPLICANT:  Foy, Teresa M.
;  APPLICANT:  Houghton, Raymond L.
;  APPLICANT:  Persing, David H.
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
;  TITLE OF INVENTION:  AND DIAGNOSIS OF BREAST CANCER
;  FILE REFERENCE: 210121.419C15
;  CURRENT APPLICATION NUMBER: US/11/139,041
;  CURRENT FILING DATE:  2005-05-25
;  PRIOR APPLICATION NUMBER: US 10/079,137
;  PRIOR FILING DATE: 2002-02-20
;  PRIOR APPLICATION NUMBER: US 09/924,400
;  PRIOR FILING DATE: 2001-08-07
;  PRIOR APPLICATION NUMBER: US 09/810,936
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: US 09/699,295
;  PRIOR FILING DATE: 2000-10-26
;  PRIOR APPLICATION NUMBER: US 09/590,583
;  PRIOR FILING DATE: 2000-06-08
;  PRIOR APPLICATION NUMBER: US 09/577,505
;  PRIOR FILING DATE: 2000-05-24
;  PRIOR APPLICATION NUMBER: US 09/534,825
;  PRIOR FILING DATE: 2000-03-23
;  PRIOR APPLICATION NUMBER: US 09/429,755
;  PRIOR FILING DATE: 1999-10-28
;  PRIOR APPLICATION NUMBER: US 09/289,198
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/062,451
;  PRIOR FILING DATE: 1998-04-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 428
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 426
;   LENGTH: 33
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-139-041-426

  Query Match             64.8%;  Score 35;  DB 11;  Length 33;
  Best Local Similarity   62.5%;  Pred. No. 42;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              |  ||| |
Db         10 CFPCCRES 17


RESULT 40
US-11-139-041-427
; Sequence 427, Application US/11139041
; Publication No. US20060083749A1
; GENERAL INFORMATION:
;  APPLICANT: Fanger, Gary R.
;  APPLICANT:  Hirst, Shannon Kathleen
;  APPLICANT:  Dillon, Davin C.
;  APPLICANT:  Foy, Teresa M.
;  APPLICANT:  Houghton, Raymond L.
;  APPLICANT:  Persing, David H.
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
;  TITLE OF INVENTION:  AND DIAGNOSIS OF BREAST CANCER
;  FILE REFERENCE: 210121.419C15
;  CURRENT APPLICATION NUMBER: US/11/139,041
;  CURRENT FILING DATE:  2005-05-25
;  PRIOR APPLICATION NUMBER: US 10/079,137
;  PRIOR FILING DATE: 2002-02-20
;  PRIOR APPLICATION NUMBER: US 09/924,400
;  PRIOR FILING DATE: 2001-08-07
;  PRIOR APPLICATION NUMBER: US 09/810,936
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: US 09/699,295
;  PRIOR FILING DATE: 2000-10-26
;  PRIOR APPLICATION NUMBER: US 09/590,583
;  PRIOR FILING DATE: 2000-06-08
;  PRIOR APPLICATION NUMBER: US 09/577,505
;  PRIOR FILING DATE: 2000-05-24
;  PRIOR APPLICATION NUMBER: US 09/534,825
;  PRIOR FILING DATE: 2000-03-23
;  PRIOR APPLICATION NUMBER: US 09/429,755
;  PRIOR FILING DATE: 1999-10-28
;  PRIOR APPLICATION NUMBER: US 09/289,198
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/062,451
;  PRIOR FILING DATE: 1998-04-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 428
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 427
;   LENGTH: 33
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-139-041-427

  Query Match             64.8%;  Score 35;  DB 11;  Length 33;
  Best Local Similarity   62.5%;  Pred. No. 42;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              |  ||| |
Db         10 CFPCCRGS 17


RESULT 41
US-11-139-041-428
; Sequence 428, Application US/11139041
; Publication No. US20060083749A1
; GENERAL INFORMATION:
;  APPLICANT: Fanger, Gary R.
;  APPLICANT:  Hirst, Shannon Kathleen
;  APPLICANT:  Dillon, Davin C.
;  APPLICANT:  Foy, Teresa M.
;  APPLICANT:  Houghton, Raymond L.
;  APPLICANT:  Persing, David H.
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
;  TITLE OF INVENTION:  AND DIAGNOSIS OF BREAST CANCER
;  FILE REFERENCE: 210121.419C15
;  CURRENT APPLICATION NUMBER: US/11/139,041
;  CURRENT FILING DATE:  2005-05-25
;  PRIOR APPLICATION NUMBER: US 10/079,137
;  PRIOR FILING DATE: 2002-02-20
;  PRIOR APPLICATION NUMBER: US 09/924,400
;  PRIOR FILING DATE: 2001-08-07
;  PRIOR APPLICATION NUMBER: US 09/810,936
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: US 09/699,295
;  PRIOR FILING DATE: 2000-10-26
;  PRIOR APPLICATION NUMBER: US 09/590,583
;  PRIOR FILING DATE: 2000-06-08
;  PRIOR APPLICATION NUMBER: US 09/577,505
;  PRIOR FILING DATE: 2000-05-24
;  PRIOR APPLICATION NUMBER: US 09/534,825
;  PRIOR FILING DATE: 2000-03-23
;  PRIOR APPLICATION NUMBER: US 09/429,755
;  PRIOR FILING DATE: 1999-10-28
;  PRIOR APPLICATION NUMBER: US 09/289,198
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/062,451
;  PRIOR FILING DATE: 1998-04-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 428
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 428
;   LENGTH: 33
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-139-041-428

  Query Match             64.8%;  Score 35;  DB 11;  Length 33;
```

```
  Best Local Similarity   62.5%;  Pred. No. 42;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              |  ||| |
Db         10 CPPCCRGS 17


RESULT 42
US-11-079-463-10120
; Sequence 10120, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PATH00-03DIV2
;  CURRENT APPLICATION NUMBER: US/11/079,463
;  CURRENT FILING DATE:  2005-03-14
;  PRIOR APPLICATION NUMBER: US 60/128,705
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/540,209
;  PRIOR FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 10120
;   LENGTH: 101
;   TYPE: PRT
;   ORGANISM: B.fragilis
US-11-079-463-10120

  Query Match             64.8%;  Score 35;  DB 11;  Length 101;
  Best Local Similarity   62.5%;  Pred. No. 91;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 MSCCRSSR 9
              : ||||:|
Db         27 LDCCRSAR 34


RESULT 43
US-11-096-568A-27
; Sequence 27, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 27
;   LENGTH: 128
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(128)
;   OTHER INFORMATION: Ceres Seq. ID no. 13587230
US-11-096-568A-27

  Query Match             64.8%;  Score 35;  DB 11;  Length 128;
  Best Local Similarity   100.0%;  Pred. No. 1.1e+02;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 SCCRSS 8
              ||||||
Db         47 SCCRSS 52


RESULT 44
US-11-096-568A-26
; Sequence 26, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 26
;   LENGTH: 143
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(143)
;   OTHER INFORMATION: Ceres Seq. ID no. 13587229
US-11-096-568A-26

  Query Match             64.8%;  Score 35;  DB 11;  Length 143;
  Best Local Similarity   100.0%;  Pred. No. 1.2e+02;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 SCCRSS 8
              ||||||
Db         62 SCCRSS 67


RESULT 45
US-11-234-786-532
; Sequence 532, Application US/11234786
; Publication No. US20060024301A1
; GENERAL INFORMATION:
;  APPLICANT: Xu, Jiangchun
;  APPLICANT:  Dillon, Davin C.
;  APPLICANT:  Mitcham, Jennifer L.
;  APPLICANT:  Harlocker, Susan L.
;  APPLICANT:  Jiang, Yuqiu
;  APPLICANT:  Reed, Steven G.
;  APPLICANT:  Kalos, Michael D.
;  APPLICANT:  Fanger, Gary R.
;  APPLICANT:  Retter, Marc W.
;  APPLICANT:  Stolk, John A.
;  APPLICANT:  Day, Craig H.
;  APPLICANT:  Vedvick, Thomas S.
;  APPLICANT:  Carter, Darrick
;  APPLICANT:  Li, Samuel X.
;  APPLICANT:  Wang, Aijun
;  APPLICANT:  Skeiky, Yasir A.
;  TITLE OF INVENTION: PROSTATE-SPECIFIC POLYPEPTIDES AND FUSION
;  TITLE OF INVENTION:  POLYPEPTIDES THEREOF
;  FILE REFERENCE: 210121.427C31
;  CURRENT APPLICATION NUMBER: US/11/234,786
;  CURRENT FILING DATE:  2005-09-23
;  PRIOR APPLICATION NUMBER: US 09/568,857
;  PRIOR FILING DATE: 2000-05-09
;  PRIOR APPLICATION NUMBER: US 09/536,857
;  PRIOR FILING DATE: 2000-05-27
;  PRIOR APPLICATION NUMBER: US 09/483,672
;  PRIOR FILING DATE: 2000-01-14
;  PRIOR APPLICATION NUMBER: US 09/439,313
;  PRIOR FILING DATE: 1999-11-12
;  PRIOR APPLICATION NUMBER: US 09/352,616
;  PRIOR FILING DATE: 1999-07-13
;  PRIOR APPLICATION NUMBER: US 09/288,946
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/232,149
;  PRIOR FILING DATE: 1999-01-15
;  PRIOR APPLICATION NUMBER: US 09/159,812
;  PRIOR FILING DATE: 1998-09-23
;  PRIOR APPLICATION NUMBER: US 09/115,453
;  PRIOR FILING DATE: 1998-07-14
;  PRIOR APPLICATION NUMBER: US 09/030,607
```

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;  PRIOR FILING DATE: 1998-02-25
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 701
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 532
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-234-786-532

  Query Match             64.8%;  Score 35;  DB 11;  Length 292;
  Best Local Similarity   62.5%;  Pred. No. 1.9e+02;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              |  ||| |
Db         47 CFPCCRGS 54


RESULT 46
US-11-139-041-315
; Sequence 315, Application US/11139041
; Publication No. US20060083749A1
; GENERAL INFORMATION:
;  APPLICANT: Fanger, Gary R.
;  APPLICANT:  Hirst, Shannon Kathleen
;  APPLICANT:  Dillon, Davin C.
;  APPLICANT:  Foy, Teresa M.
;  APPLICANT:  Houghton, Raymond L.
;  APPLICANT:  Persing, David H.
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
;  TITLE OF INVENTION:  AND DIAGNOSIS OF BREAST CANCER
;  FILE REFERENCE: 210121.419C15
;  CURRENT APPLICATION NUMBER: US/11/139,041
;  CURRENT FILING DATE:  2005-05-25
;  PRIOR APPLICATION NUMBER: US 10/079,137
;  PRIOR FILING DATE: 2002-02-20
;  PRIOR APPLICATION NUMBER: US 09/924,400
;  PRIOR FILING DATE: 2001-08-07
;  PRIOR APPLICATION NUMBER: US 09/810,936
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: US 09/699,295
;  PRIOR FILING DATE: 2000-10-26
;  PRIOR APPLICATION NUMBER: US 09/590,583
;  PRIOR FILING DATE: 2000-06-08
;  PRIOR APPLICATION NUMBER: US 09/577,505
;  PRIOR FILING DATE: 2000-05-24
;  PRIOR APPLICATION NUMBER: US 09/534,825
;  PRIOR FILING DATE: 2000-03-23
;  PRIOR APPLICATION NUMBER: US 09/429,755
;  PRIOR FILING DATE: 1999-10-28
;  PRIOR APPLICATION NUMBER: US 09/289,198
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/062,451
;  PRIOR FILING DATE: 1998-04-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 428
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 315
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-139-041-315

  Query Match             64.8%;  Score 35;  DB 11;  Length 292;
  Best Local Similarity   62.5%;  Pred. No. 1.9e+02;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              |  ||| |
Db         47 CFPCCRGS 54


RESULT 47
US-11-139-041-345
; Sequence 345, Application US/11139041
; Publication No. US20060083749A1
; GENERAL INFORMATION:
;  APPLICANT: Fanger, Gary R.
;  APPLICANT:  Hirst, Shannon Kathleen
;  APPLICANT:  Dillon, Davin C.
;  APPLICANT:  Foy, Teresa M.
;  APPLICANT:  Houghton, Raymond L.
;  APPLICANT:  Persing, David H.
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
;  TITLE OF INVENTION:  AND DIAGNOSIS OF BREAST CANCER
;  FILE REFERENCE: 210121.419C15
;  CURRENT APPLICATION NUMBER: US/11/139,041
;  CURRENT FILING DATE:  2005-05-25
;  PRIOR APPLICATION NUMBER: US 10/079,137
;  PRIOR FILING DATE: 2002-02-20
;  PRIOR APPLICATION NUMBER: US 09/924,400
;  PRIOR FILING DATE: 2001-08-07
;  PRIOR APPLICATION NUMBER: US 09/810,936
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: US 09/699,295
;  PRIOR FILING DATE: 2000-10-26
;  PRIOR APPLICATION NUMBER: US 09/590,583
;  PRIOR FILING DATE: 2000-06-08
;  PRIOR APPLICATION NUMBER: US 09/577,505
;  PRIOR FILING DATE: 2000-05-24
;  PRIOR APPLICATION NUMBER: US 09/534,825
;  PRIOR FILING DATE: 2000-03-23
;  PRIOR APPLICATION NUMBER: US 09/429,755
;  PRIOR FILING DATE: 1999-10-28
;  PRIOR APPLICATION NUMBER: US 09/289,198
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/062,451
;  PRIOR FILING DATE: 1998-04-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 428
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 345
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-139-041-345

  Query Match             64.8%;  Score 35;  DB 11;  Length 292;
  Best Local Similarity   62.5%;  Pred. No. 1.9e+02;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CMSCCRSS 8
              |  ||| |
Db         47 CFPCCRGS 54


RESULT 48
US-11-139-041-346
; Sequence 346, Application US/11139041
; Publication No. US20060083749A1
; GENERAL INFORMATION:
;  APPLICANT: Fanger, Gary R.
;  APPLICANT:  Hirst, Shannon Kathleen
;  APPLICANT:  Dillon, Davin C.
;  APPLICANT:  Foy, Teresa M.
;  APPLICANT:  Houghton, Raymond L.
;  APPLICANT:  Persing, David H.
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
;  TITLE OF INVENTION:  AND DIAGNOSIS OF BREAST CANCER
;  FILE REFERENCE: 210121.419C15
;  CURRENT APPLICATION NUMBER: US/11/139,041
;  CURRENT FILING DATE:  2005-05-25
;  PRIOR APPLICATION NUMBER: US 10/079,137
;  PRIOR FILING DATE: 2002-02-20
;  PRIOR APPLICATION NUMBER: US 09/924,400
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;  PRIOR FILING DATE: 2001-08-07
;  PRIOR APPLICATION NUMBER: US 09/810,936
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: US 09/699,295
;  PRIOR FILING DATE: 2000-10-26
;  PRIOR APPLICATION NUMBER: US 09/590,583
;  PRIOR FILING DATE: 2000-06-08
;  PRIOR APPLICATION NUMBER: US 09/577,505
;  PRIOR FILING DATE: 2000-05-24
;  PRIOR APPLICATION NUMBER: US 09/534,825
;  PRIOR FILING DATE: 2000-03-23
;  PRIOR APPLICATION NUMBER: US 09/429,755
;  PRIOR FILING DATE: 1999-10-28
;  PRIOR APPLICATION NUMBER: US 09/289,198
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/062,451
;  PRIOR FILING DATE: 1998-04-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 428
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 346
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-139-041-346

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Db         47 CFPCCRGS 54


RESULT 49
US-11-139-041-347
; Sequence 347, Application US/11139041
; Publication No. US20060083749A1
; GENERAL INFORMATION:
;  APPLICANT: Fanger, Gary R.
;  APPLICANT:  Hirst, Shannon Kathleen
;  APPLICANT:  Dillon, Davin C.
;  APPLICANT:  Foy, Teresa M.
;  APPLICANT:  Houghton, Raymond L.
;  APPLICANT:  Persing, David H.
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
;  TITLE OF INVENTION:  AND DIAGNOSIS OF BREAST CANCER
;  FILE REFERENCE: 210121.419C15
;  CURRENT APPLICATION NUMBER: US/11/139,041
;  CURRENT FILING DATE:  2005-05-25
;  PRIOR APPLICATION NUMBER: US 10/079,137
;  PRIOR FILING DATE: 2002-02-20
;  PRIOR APPLICATION NUMBER: US 09/924,400
;  PRIOR FILING DATE: 2001-08-07
;  PRIOR APPLICATION NUMBER: US 09/810,936
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: US 09/699,295
;  PRIOR FILING DATE: 2000-10-26
;  PRIOR APPLICATION NUMBER: US 09/590,583
;  PRIOR FILING DATE: 2000-06-08
;  PRIOR APPLICATION NUMBER: US 09/577,505
;  PRIOR FILING DATE: 2000-05-24
;  PRIOR APPLICATION NUMBER: US 09/534,825
;  PRIOR FILING DATE: 2000-03-23
;  PRIOR APPLICATION NUMBER: US 09/429,755
;  PRIOR FILING DATE: 1999-10-28
;  PRIOR APPLICATION NUMBER: US 09/289,198
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/062,451
;  PRIOR FILING DATE: 1998-04-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 428
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 347
;   LENGTH: 311
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-139-041-347

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Db         29 CFPCCRGS 36


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; Sequence 348, Application US/11139041
; Publication No. US20060083749A1
; GENERAL INFORMATION:
;  APPLICANT: Fanger, Gary R.
;  APPLICANT:  Hirst, Shannon Kathleen
;  APPLICANT:  Dillon, Davin C.
;  APPLICANT:  Foy, Teresa M.
;  APPLICANT:  Houghton, Raymond L.
;  APPLICANT:  Persing, David H.
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
;  TITLE OF INVENTION:  AND DIAGNOSIS OF BREAST CANCER
;  FILE REFERENCE: 210121.419C15
;  CURRENT APPLICATION NUMBER: US/11/139,041
;  CURRENT FILING DATE:  2005-05-25
;  PRIOR APPLICATION NUMBER: US 10/079,137
;  PRIOR FILING DATE: 2002-02-20
;  PRIOR APPLICATION NUMBER: US 09/924,400
;  PRIOR FILING DATE: 2001-08-07
;  PRIOR APPLICATION NUMBER: US 09/810,936
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: US 09/699,295
;  PRIOR FILING DATE: 2000-10-26
;  PRIOR APPLICATION NUMBER: US 09/590,583
;  PRIOR FILING DATE: 2000-06-08
;  PRIOR APPLICATION NUMBER: US 09/577,505
;  PRIOR FILING DATE: 2000-05-24
;  PRIOR APPLICATION NUMBER: US 09/534,825
;  PRIOR FILING DATE: 2000-03-23
;  PRIOR APPLICATION NUMBER: US 09/429,755
;  PRIOR FILING DATE: 1999-10-28
;  PRIOR APPLICATION NUMBER: US 09/289,198
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/062,451
;  PRIOR FILING DATE: 1998-04-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 428
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 348
;   LENGTH: 313
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-139-041-348

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Qy          1 CMSCCRSS 8
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Db         31 CFPCCRGS 38


Search completed: May  5, 2006, 07:56:44
Job time : 9.4 secs
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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 01:33:35 ; Search time 18.2 Seconds
(without alignments)
40.884 Million cell updates/sec

Title: US-08-170-344-57
Perfect score: 50
Sequence: 1 SCCRSSRTR 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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3: /cgn2_6/ptodata/1/iaa/H_COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/RE_COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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| 3 | 50 | 100.0 | 158 | 2 | US-09-980-523A-2 | Sequence 2, Appli |
| 4 | 50 | 100.0 | 162 | 1 | US-08-316-239B-3 | Sequence 3, Appli |
| 5 | 50 | 100.0 | 162 | 1 | US-08-316-239B-4 | Sequence 4, Appli |
| 6 | 50 | 100.0 | 172 | 2 | US-08-860-165-12 | Sequence 12, Appl |
| 7 | 50 | 100.0 | 172 | 2 | US-09-359-382-12 | Sequence 12, Appl |
| 8 | 50 | 100.0 | 243 | 2 | US-09-462-993-1 | Sequence 1, Appli |
| 9 | 50 | 100.0 | 266 | 2 | US-08-860-165-10 | Sequence 10, Appl |
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| 11 | 50 | 100.0 | 266 | 2 | US-09-367-309A-1 | Sequence 1, Appli |
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| 14 | 50 | 100.0 | 371 | 2 | US-09-485-885-6 | Sequence 6, Appli |
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| 16 | 41 | 82.0 | 136 | 2 | US-09-252-991A-21156 | Sequence 21156, A |
| 17 | 41 | 82.0 | 230 | 2 | US-09-252-991A-33122 | Sequence 33122, A |
| 18 | 39 | 78.0 | 147 | 2 | US-09-252-991A-17724 | Sequence 17724, A |
| 19 | 39 | 78.0 | 171 | 2 | US-08-311-731A-381 | Sequence 381, App |
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| 27 | 37 | 74.0 | 207 | 2 | US-09-270-767-47906 | Sequence 47906, A |
| 28 | 36 | 72.0 | 153 | 2 | US-09-252-991A-26200 | Sequence 26200, A |
| 29 | 36 | 72.0 | 224 | 2 | US-09-252-991A-18341 | Sequence 18341, A |
| 30 | 36 | 72.0 | 337 | 2 | US-09-477-962-125 | Sequence 125, App |
| 31 | 36 | 72.0 | 446 | 2 | US-09-252-991A-21791 | Sequence 21791, A |
| 32 | 36 | 72.0 | 1905 | 2 | US-09-964-956-44 | Sequence 44, Appl |
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| 35 | 35 | 70.0 | 47 | 2 | US-09-074-114-6 | Sequence 6, Appli |
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| 40 | 35 | 70.0 | 140 | 2 | US-09-270-767-35721 | Sequence 35721, A |
| 41 | 35 | 70.0 | 140 | 2 | US-09-270-767-50938 | Sequence 50938, A |
| 42 | 35 | 70.0 | 150 | 2 | US-09-252-991A-24700 | Sequence 24700, A |
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| 51 | 34 | 68.0 | 23 | 2 | US-09-860-793-8 | Sequence 8, Appli |
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| 59 | 34 | 68.0 | 70 | 2 | US-09-894-882-362 | Sequence 362, App |
| 60 | 34 | 68.0 | 85 | 2 | US-09-674-973A-189 | Sequence 189, App |
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| 62 | 34 | 68.0 | 90 | 2 | US-09-270-767-49694 | Sequence 49694, A |
| 63 | 34 | 68.0 | 94 | 2 | US-09-674-973A-191 | Sequence 191, App |
| 64 | 34 | 68.0 | 95 | 2 | US-09-674-973A-192 | Sequence 192, App |
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| 66 | 34 | 68.0 | 131 | 2 | US-09-270-767-39085 | Sequence 39085, A |
| 67 | 34 | 68.0 | 131 | 2 | US-09-270-767-54302 | Sequence 54302, A |
| 68 | 34 | 68.0 | 141 | 2 | US-10-141-645-72 | Sequence 72, Appl |
| 69 | 34 | 68.0 | 141 | 2 | US-10-141-645-73 | Sequence 73, Appl |
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| 71 | 34 | 68.0 | 179 | 2 | US-09-252-991A-18885 | Sequence 18885, A |
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| 74 | 34 | 68.0 | 389 | 2 | US-09-252-991A-31590 | Sequence 31590, A |
| 75 | 34 | 68.0 | 430 | 2 | US-08-997-897-2 | Sequence 2, Appli |
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| 77 | 33 | 66.0 | 38 | 2 | US-08-469-260A-569 | Sequence 569, App |
| 78 | 33 | 66.0 | 38 | 2 | US-08-488-446-569 | Sequence 569, App |
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| 80 | 33 | 66.0 | 38 | 2 | US-08-424-550B-569 | Sequence 569, App |
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| 86 | 33 | 66.0 | 45 | 1 | US-08-838-763-1 | Sequence 1, Appli |
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| 88 | 33 | 66.0 | 70 | 2 | US-09-252-991A-19766 | Sequence 19766, A |
| 89 | 33 | 66.0 | 107 | 2 | US-09-252-991A-30716 | Sequence 30716, A |
| 90 | 33 | 66.0 | 127 | 2 | US-09-252-991A-25856 | Sequence 25856, A |
| 91 | 33 | 66.0 | 141 | 2 | US-09-252-991A-24137 | Sequence 24137, A |
| 92 | 33 | 66.0 | 142 | 2 | US-09-252-991A-28600 | Sequence 28600, A |
| 93 | 33 | 66.0 | 144 | 2 | US-09-949-016-11102 | Sequence 11102, A |
| 94 | 33 | 66.0 | 173 | 2 | US-09-252-991A-20624 | Sequence 20624, A |
| 95 | 33 | 66.0 | 175 | 2 | US-09-252-991A-16749 | Sequence 16749, A |
| 96 | 33 | 66.0 | 180 | 2 | US-09-949-016-6478 | Sequence 6478, Ap |
| 97 | 33 | 66.0 | 181 | 2 | US-09-252-991A-30481 | Sequence 30481, A |
| 98 | 33 | 66.0 | 266 | 2 | US-09-252-991A-19128 | Sequence 19128, A |
| 99 | 33 | 66.0 | 272 | 2 | US-09-252-991A-29415 | Sequence 29415, A |
| 100 | 33 | 66.0 | 309 | 2 | US-09-252-991A-27914 | Sequence 27914, A |

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| 102 | 33 | 66.0 | 351 | 2 | US-09-252-991A-21647 | Sequence 21647, A |
| 103 | 33 | 66.0 | 382 | 2 | US-09-252-991A-27347 | Sequence 27347, A |
| 104 | 33 | 66.0 | 399 | 2 | US-09-489-039A-9456 | Sequence 9456, Ap |
| 105 | 33 | 66.0 | 433 | 2 | US-09-252-991A-24380 | Sequence 24380, A |
| 106 | 33 | 66.0 | 465 | 2 | US-09-489-039A-10231 | Sequence 10231, A |
| 107 | 33 | 66.0 | 532 | 2 | US-09-252-991A-25769 | Sequence 25769, A |
| 108 | 33 | 66.0 | 597 | 2 | US-09-252-991A-24252 | Sequence 24252, A |
| 109 | 33 | 66.0 | 719 | 2 | US-09-252-991A-30052 | Sequence 30052, A |
| 110 | 32 | 64.0 | 9 | 2 | US-08-159-339A-228 | Sequence 228, App |
| 111 | 32 | 64.0 | 27 | 1 | US-07-789-913-21 | Sequence 21, Appl |
| 112 | 32 | 64.0 | 93 | 2 | US-09-287-849-35 | Sequence 35, Appl |
| 113 | 32 | 64.0 | 105 | 2 | US-09-252-991A-33030 | Sequence 33030, A |
| 114 | 32 | 64.0 | 106 | 2 | US-09-252-991A-20137 | Sequence 20137, A |
| 115 | 32 | 64.0 | 116 | 2 | US-09-270-767-41121 | Sequence 41121, A |
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| 117 | 32 | 64.0 | 135 | 2 | US-09-252-991A-24701 | Sequence 24701, A |
| 118 | 32 | 64.0 | 138 | 2 | US-09-252-991A-32675 | Sequence 32675, A |
| 119 | 32 | 64.0 | 145 | 2 | US-09-252-991A-23153 | Sequence 23153, A |
| 120 | 32 | 64.0 | 150 | 2 | US-09-252-991A-29818 | Sequence 29818, A |
| 121 | 32 | 64.0 | 156 | 2 | US-09-252-991A-24413 | Sequence 24413, A |
| 122 | 32 | 64.0 | 156 | 2 | US-09-252-991A-26582 | Sequence 26582, A |
| 123 | 32 | 64.0 | 156 | 2 | US-09-252-991A-32116 | Sequence 32116, A |
| 124 | 32 | 64.0 | 157 | 2 | US-09-252-991A-18778 | Sequence 18778, A |
| 125 | 32 | 64.0 | 163 | 2 | US-09-387-286-13 | Sequence 13, Appl |
| 126 | 32 | 64.0 | 164 | 2 | US-09-252-991A-31552 | Sequence 31552, A |
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| 130 | 32 | 64.0 | 176 | 2 | US-09-083-516-2 | Sequence 2, Appli |
| 131 | 32 | 64.0 | 176 | 2 | US-09-252-991A-21933 | Sequence 21933, A |
| 132 | 32 | 64.0 | 176 | 2 | US-09-884-319A-2 | Sequence 2, Appli |
| 133 | 32 | 64.0 | 187 | 2 | US-09-252-991A-19143 | Sequence 19143, A |
| 134 | 32 | 64.0 | 189 | 2 | US-10-104-047-3254 | Sequence 3254, Ap |
| 135 | 32 | 64.0 | 202 | 2 | US-09-252-991A-20995 | Sequence 20995, A |
| 136 | 32 | 64.0 | 215 | 2 | US-09-252-991A-31559 | Sequence 31559, A |
| 137 | 32 | 64.0 | 219 | 2 | US-09-270-767-37049 | Sequence 37049, A |
| 138 | 32 | 64.0 | 219 | 2 | US-09-270-767-52266 | Sequence 52266, A |
| 139 | 32 | 64.0 | 232 | 2 | US-09-252-991A-23648 | Sequence 23648, A |
| 140 | 32 | 64.0 | 248 | 2 | US-09-252-991A-29249 | Sequence 29249, A |
| 141 | 32 | 64.0 | 258 | 2 | US-09-252-991A-29435 | Sequence 29435, A |
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| 147 | 32 | 64.0 | 346 | 2 | US-09-990-444-197 | Sequence 197, App |
| 148 | 32 | 64.0 | 346 | 2 | US-09-997-333-197 | Sequence 197, App |
| 149 | 32 | 64.0 | 346 | 2 | US-09-992-598-197 | Sequence 197, App |
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| 151 | 32 | 64.0 | 370 | 2 | US-09-252-991A-29473 | Sequence 29473, A |
| 152 | 32 | 64.0 | 374 | 2 | US-09-252-991A-29999 | Sequence 29999, A |
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| 154 | 32 | 64.0 | 375 | 2 | US-10-318-142-2 | Sequence 2, Appli |
| 155 | 32 | 64.0 | 375 | 2 | US-09-875-076-16 | Sequence 16, Appl |
| 156 | 32 | 64.0 | 399 | 2 | US-09-252-991A-21997 | Sequence 21997, A |
| 157 | 32 | 64.0 | 406 | 2 | US-09-252-991A-18696 | Sequence 18696, A |
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| 159 | 32 | 64.0 | 422 | 2 | US-08-510-646B-18 | Sequence 18, Appl |
| 160 | 32 | 64.0 | 422 | 2 | US-09-231-818-17 | Sequence 17, Appl |
| 161 | 32 | 64.0 | 422 | 2 | US-09-635-359B-17 | Sequence 17, Appl |
| 162 | 32 | 64.0 | 426 | 2 | US-09-252-991A-32191 | Sequence 32191, A |
| 163 | 32 | 64.0 | 474 | 2 | US-10-104-047-3289 | Sequence 3289, Ap |
| 164 | 32 | 64.0 | 479 | 2 | US-09-252-991A-32884 | Sequence 32884, A |
| 165 | 32 | 64.0 | 521 | 2 | US-09-252-991A-18119 | Sequence 18119, A |
| 166 | 32 | 64.0 | 633 | 2 | US-09-252-991A-26229 | Sequence 26229, A |
| 167 | 32 | 64.0 | 710 | 2 | US-09-902-540-16023 | Sequence 16023, A |
| 168 | 32 | 64.0 | 862 | 2 | US-09-315-861-2 | Sequence 2, Appli |
| 169 | 32 | 64.0 | 862 | 2 | US-09-398-395A-44 | Sequence 44, Appl |
| 170 | 32 | 64.0 | 862 | 2 | US-09-887-586A-44 | Sequence 44, Appl |
| 171 | 32 | 64.0 | 862 | 2 | US-09-895-752-44 | Sequence 44, Appl |
| 172 | 32 | 64.0 | 862 | 2 | US-09-903-012B-44 | Sequence 44, Appl |
| 173 | 32 | 64.0 | 862 | 2 | US-09-593-253-2 | Sequence 2, Appli |
| 174 | 32 | 64.0 | 862 | 2 | US-09-900-797-44 | Sequence 44, Appl |
| 175 | 32 | 64.0 | 862 | 2 | US-09-893-820-44 | Sequence 44, Appl |
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| 178 | 31.5 | 63.0 | 820 | 1 | US-08-374-483-2 | Sequence 2, Appli |
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| 183 | 31 | 62.0 | 58 | 2 | US-09-636-215-547 | Sequence 547, App |
| 184 | 31 | 62.0 | 58 | 2 | US-09-685-166A-547 | Sequence 547, App |
| 185 | 31 | 62.0 | 58 | 2 | US-09-679-426-547 | Sequence 547, App |
| 186 | 31 | 62.0 | 58 | 2 | US-09-759-143-547 | Sequence 547, App |
| 187 | 31 | 62.0 | 58 | 2 | US-09-651-236-547 | Sequence 547, App |
| 188 | 31 | 62.0 | 58 | 2 | US-09-657-279-547 | Sequence 547, App |
| 189 | 31 | 62.0 | 58 | 2 | US-10-012-896-547 | Sequence 547, App |
| 190 | 31 | 62.0 | 60 | 2 | US-09-082-358B-25 | Sequence 25, Appl |
| 191 | 31 | 62.0 | 60 | 2 | US-09-082-358B-33 | Sequence 33, Appl |
| 192 | 31 | 62.0 | 70 | 2 | US-09-248-796A-22458 | Sequence 22458, A |
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| 194 | 31 | 62.0 | 78 | 2 | US-09-252-991A-30290 | Sequence 30290, A |
| 195 | 31 | 62.0 | 94 | 2 | US-09-688-017-321 | Sequence 321, App |
| 196 | 31 | 62.0 | 95 | 2 | US-09-252-991A-28504 | Sequence 28504, A |
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| 198 | 31 | 62.0 | 107 | 2 | US-09-252-991A-32005 | Sequence 32005, A |
| 199 | 31 | 62.0 | 111 | 2 | US-09-252-991A-32600 | Sequence 32600, A |
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| 201 | 31 | 62.0 | 119 | 2 | US-09-513-999C-6053 | Sequence 6053, Ap |
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| 203 | 31 | 62.0 | 126 | 2 | US-09-252-991A-21726 | Sequence 21726, A |
| 204 | 31 | 62.0 | 126 | 2 | US-09-270-767-34891 | Sequence 34891, A |
| 205 | 31 | 62.0 | 126 | 2 | US-09-270-767-50108 | Sequence 50108, A |
| 206 | 31 | 62.0 | 127 | 2 | US-09-252-991A-17128 | Sequence 17128, A |
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| 238 | 31 | 62.0 | 235 | 4 | PCT-US95-07289-4 | Sequence 4, Appli |
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| 254 | 31 | 62.0 | 371 | 2 | US-09-651-236-708 | Sequence 708, App |
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| 261 | 31 | 62.0 | 400 | 2 | US-09-679-426-852 | Sequence 852, App |
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| 263 | 31 | 62.0 | 400 | 2 | US-09-651-236-852 | Sequence 852, App |
| 264 | 31 | 62.0 | 400 | 2 | US-09-657-279-852 | Sequence 852, App |
| 265 | 31 | 62.0 | 400 | 2 | US-10-012-896-852 | Sequence 852, App |
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| 268 | 31 | 62.0 | 492 | 2 | US-09-270-767-46706 | Sequence 46706, A |
| 269 | 31 | 62.0 | 493 | 2 | US-09-252-991A-16925 | Sequence 16925, A |
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| 273 | 31 | 62.0 | 517 | 2 | US-09-538-092-851 | Sequence 851, App |
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| 286 | 31 | 62.0 | 553 | 2 | US-09-232-149A-113 | Sequence 113, App |
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| 292 | 31 | 62.0 | 553 | 2 | US-09-679-426-113 | Sequence 113, App |
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| 294 | 31 | 62.0 | 553 | 2 | US-09-651-236-113 | Sequence 113, App |
| 295 | 31 | 62.0 | 553 | 2 | US-09-030-606-113 | Sequence 113, App |
| 296 | 31 | 62.0 | 553 | 2 | US-09-657-279-113 | Sequence 113, App |
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| 305 | 31 | 62.0 | 778 | 1 | US-08-751-965-5 | Sequence 5, Appli |
| 306 | 31 | 62.0 | 778 | 1 | US-08-738-975-5 | Sequence 5, Appli |
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| 308 | 31 | 62.0 | 778 | 2 | US-08-808-599A-5 | Sequence 5, Appli |
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| 310 | 31 | 62.0 | 855 | 1 | US-08-619-554-6 | Sequence 6, Appli |
| 311 | 31 | 62.0 | 949 | 2 | US-09-270-767-41504 | Sequence 41504, A |
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| 313 | 31 | 62.0 | 1395 | 2 | US-09-540-245A-15 | Sequence 15, Appl |
| 314 | 31 | 62.0 | 1395 | 2 | US-10-289-776-15 | Sequence 15, Appl |
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| 316 | 31 | 62.0 | 1487 | 1 | US-08-760-489-4 | Sequence 4, Appli |
| 317 | 31 | 62.0 | 1487 | 2 | US-09-185-373-2 | Sequence 2, Appli |
| 318 | 31 | 62.0 | 1487 | 2 | US-09-185-373-4 | Sequence 4, Appli |
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| 321 | 31 | 62.0 | 5179 | 2 | US-09-538-092-1258 | Sequence 1258, Ap |
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| 338 | 30 | 60.0 | 76 | 2 | US-09-270-767-50845 | Sequence 50845, A |
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| 346 | 30 | 60.0 | 84 | 2 | US-09-012-692-99 | Sequence 99, Appl |
| 347 | 30 | 60.0 | 84 | 2 | US-08-906-613-99 | Sequence 99, Appl |
| 348 | 30 | 60.0 | 84 | 2 | US-09-198-452A-1276 | Sequence 1276, Ap |
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| 370 | 30 | 60.0 | 154 | 2 | US-09-252-991A-32553 | Sequence 32553, A |
| 371 | 30 | 60.0 | 156 | 2 | US-09-252-991A-18954 | Sequence 18954, A |
| 372 | 30 | 60.0 | 156 | 2 | US-09-252-991A-22515 | Sequence 22515, A |
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| 374 | 30 | 60.0 | 161 | 2 | US-09-252-991A-27639 | Sequence 27639, A |
| 375 | 30 | 60.0 | 162 | 2 | US-09-489-039A-8176 | Sequence 8176, Ap |
| 376 | 30 | 60.0 | 168 | 2 | US-09-252-991A-24947 | Sequence 24947, A |
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| 385 | 30 | 60.0 | 174 | 2 | US-09-823-038A-12 | Sequence 12, Appl |
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| 391 | 30 | 60.0 | 200 | 2 | US-09-270-767-38743 | Sequence 38743, A |
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| 409 | 30 | 60.0 | 265 | 2 | US-09-227-357-153 | Sequence 153, App |
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| 418 | 30 | 60.0 | 301 | 2 | US-09-217-847-25 | Sequence 25, Appl |
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| 685 | 28 | 56.0 | 8 | 2 | US-09-298-017-28 | Sequence 28, Appl |
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| 687 | 28 | 56.0 | 9 | 2 | US-08-159-339A-236 | Sequence 236, App |
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| 701 | 28 | 56.0 | 22 | 1 | US-08-827-570-133 | Sequence 133, App |
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| 755 | 28 | 56.0 | 27 | 6 | 5189020-3 | Patent No. 5189020 |
| 756 | 28 | 56.0 | 27 | 6 | 5189020-7 | Patent No. 5189020 |
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| 758 | 28 | 56.0 | 27 | 6 | 5424218-7 | Patent No. 5424218 |
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| 786 | 28 | 56.0 | 46 | 2 | US-09-444-281-111 | Sequence 111, App |
| 787 | 28 | 56.0 | 47 | 2 | US-09-270-767-40168 | Sequence 40168, A |
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| 802 | 28 | 56.0 | 63 | 2 | US-09-621-976-5822 | Sequence 5822, Ap |
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| 876 | 28 | 56.0 | 113 | 2 | US-09-214-095D-112 | Sequence 112, App |
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| 885 | 28 | 56.0 | 113 | 2 | US-09-940-727B-7 | Sequence 7, Appli |
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| 924 | 28 | 56.0 | 135 | 2 | US-10-104-047-2606 | Sequence 2606, Ap |
| 925 | 28 | 56.0 | 136 | 2 | US-09-781-100-7 | Sequence 7, Appli |
| 926 | 28 | 56.0 | 138 | 2 | US-09-252-991A-19261 | Sequence 19261, A |
| 927 | 28 | 56.0 | 138 | 2 | US-09-252-991A-25868 | Sequence 25868, A |
| 928 | 28 | 56.0 | 139 | 2 | US-09-252-991A-30123 | Sequence 30123, A |
| 929 | 28 | 56.0 | 139 | 2 | US-09-198-452A-1007 | Sequence 1007, Ap |
| 930 | 28 | 56.0 | 139 | 2 | US-09-270-767-60856 | Sequence 60856, A |
| 931 | 28 | 56.0 | 140 | 2 | US-09-220-528-5 | Sequence 5, Appli |
| 932 | 28 | 56.0 | 140 | 2 | US-09-252-991A-21038 | Sequence 21038, A |
| 933 | 28 | 56.0 | 140 | 2 | US-09-252-991A-21731 | Sequence 21731, A |
| 934 | 28 | 56.0 | 140 | 2 | US-09-347-613C-5 | Sequence 5, Appli |
| 935 | 28 | 56.0 | 140 | 2 | US-09-347-613C-10 | Sequence 10, Appl |
| 936 | 28 | 56.0 | 140 | 2 | US-09-270-767-45107 | Sequence 45107, A |
| 937 | 28 | 56.0 | 140 | 2 | US-09-662-183A-5 | Sequence 5, Appli |
| 938 | 28 | 56.0 | 140 | 2 | US-09-662-183A-10 | Sequence 10, Appl |
| 939 | 28 | 56.0 | 141 | 1 | US-08-485-937-1 | Sequence 1, Appli |
| 940 | 28 | 56.0 | 141 | 1 | US-08-373-215-1 | Sequence 1, Appli |
| 941 | 28 | 56.0 | 141 | 2 | US-09-438-185A-936 | Sequence 936, App |
| 942 | 28 | 56.0 | 141 | 4 | PCT-US93-06552-1 | Sequence 1, Appli |
| 943 | 28 | 56.0 | 142 | 2 | US-09-252-991A-22786 | Sequence 22786, A |
| 944 | 28 | 56.0 | 143 | 2 | US-09-252-991A-30965 | Sequence 30965, A |
| 945 | 28 | 56.0 | 144 | 2 | US-09-220-528-36 | Sequence 36, Appl |
| 946 | 28 | 56.0 | 144 | 2 | US-09-252-991A-16652 | Sequence 16652, A |
| 947 | 28 | 56.0 | 144 | 2 | US-09-252-991A-25786 | Sequence 25786, A |
| 948 | 28 | 56.0 | 144 | 2 | US-09-252-991A-26540 | Sequence 26540, A |
| 949 | 28 | 56.0 | 146 | 2 | US-09-252-991A-25506 | Sequence 25506, A |
| 950 | 28 | 56.0 | 147 | 2 | US-09-252-991A-17256 | Sequence 17256, A |
| 951 | 28 | 56.0 | 149 | 2 | US-09-252-991A-18492 | Sequence 18492, A |
| 952 | 28 | 56.0 | 149 | 2 | US-09-252-991A-18802 | Sequence 18802, A |
| 953 | 28 | 56.0 | 149 | 2 | US-09-252-991A-23111 | Sequence 23111, A |
| 954 | 28 | 56.0 | 149 | 2 | US-09-311-021-148 | Sequence 148, App |
| 955 | 28 | 56.0 | 150 | 1 | US-08-858-767-32 | Sequence 32, Appl |
| 956 | 28 | 56.0 | 150 | 1 | US-08-863-028-32 | Sequence 32, Appl |
| 957 | 28 | 56.0 | 150 | 2 | US-09-252-991A-18750 | Sequence 18750, A |
| 958 | 28 | 56.0 | 153 | 2 | US-09-252-991A-20543 | Sequence 20543, A |
| 959 | 28 | 56.0 | 153 | 2 | US-09-252-991A-21066 | Sequence 21066, A |
| 960 | 28 | 56.0 | 153 | 2 | US-09-252-991A-30498 | Sequence 30498, A |
| 961 | 28 | 56.0 | 156 | 2 | US-08-931-858E-217 | Sequence 217, App |
| 962 | 28 | 56.0 | 156 | 2 | US-09-252-991A-31875 | Sequence 31875, A |
| 963 | 28 | 56.0 | 156 | 2 | US-09-347-613C-36 | Sequence 36, Appl |
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| 967 | 28 | 56.0 | 156 | 2 | US-09-662-183A-36 | Sequence 36, Appl |
| 968 | 28 | 56.0 | 157 | 2 | US-09-252-991A-32848 | Sequence 32848, A |
| 969 | 28 | 56.0 | 158 | 2 | US-09-252-991A-26763 | Sequence 26763, A |
| 970 | 28 | 56.0 | 158 | 2 | US-09-252-991A-27239 | Sequence 27239, A |
| 971 | 28 | 56.0 | 158 | 2 | US-09-893-737-266 | Sequence 266, App |
| 972 | 28 | 56.0 | 159 | 2 | US-09-220-528-12 | Sequence 12, Appl |
| 973 | 28 | 56.0 | 159 | 2 | US-09-220-528-89 | Sequence 89, Appl |
| 974 | 28 | 56.0 | 159 | 2 | US-09-252-991A-20390 | Sequence 20390, A |
| 975 | 28 | 56.0 | 160 | 2 | US-09-252-991A-18983 | Sequence 18983, A |
| 976 | 28 | 56.0 | 160 | 2 | US-09-252-991A-24477 | Sequence 24477, A |

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| 977 | 28 | 56.0 | 161 | 2 | US-09-252-991A-19123 | Sequence 19123, A |
| 978 | 28 | 56.0 | 163 | 2 | US-09-252-991A-22083 | Sequence 22083, A |
| 979 | 28 | 56.0 | 163 | 2 | US-09-252-991A-29098 | Sequence 29098, A |
| 980 | 28 | 56.0 | 163 | 2 | US-09-252-991A-30234 | Sequence 30234, A |
| 981 | 28 | 56.0 | 167 | 2 | US-09-252-991A-20715 | Sequence 20715, A |
| 982 | 28 | 56.0 | 167 | 2 | US-09-270-767-39084 | Sequence 39084, A |
| 983 | 28 | 56.0 | 167 | 2 | US-09-270-767-54301 | Sequence 54301, A |
| 984 | 28 | 56.0 | 171 | 2 | US-10-101-464A-500 | Sequence 500, App |
| 985 | 28 | 56.0 | 172 | 2 | US-09-252-991A-16603 | Sequence 16603, A |
| 986 | 28 | 56.0 | 172 | 2 | US-09-252-991A-20172 | Sequence 20172, A |
| 987 | 28 | 56.0 | 172 | 2 | US-09-252-991A-26790 | Sequence 26790, A |
| 988 | 28 | 56.0 | 176 | 2 | US-09-252-991A-25290 | Sequence 25290, A |
| 989 | 28 | 56.0 | 178 | 2 | US-09-252-991A-22030 | Sequence 22030, A |
| 990 | 28 | 56.0 | 180 | 2 | US-09-252-991A-18269 | Sequence 18269, A |
| 991 | 28 | 56.0 | 181 | 2 | US-09-220-528-40 | Sequence 40, Appl |
| 992 | 28 | 56.0 | 183 | 2 | US-09-800-729-101 | Sequence 101, App |
| 993 | 28 | 56.0 | 184 | 2 | US-09-252-991A-28053 | Sequence 28053, A |
| 994 | 28 | 56.0 | 184 | 2 | US-09-252-991A-28341 | Sequence 28341, A |
| 995 | 28 | 56.0 | 184 | 2 | US-09-248-796A-14585 | Sequence 14585, A |
| 996 | 28 | 56.0 | 184 | 2 | US-09-538-092-504 | Sequence 504, App |
| 997 | 28 | 56.0 | 184 | 2 | US-09-949-016-11480 | Sequence 11480, A |
| 998 | 28 | 56.0 | 185 | 2 | US-09-220-528-41 | Sequence 41, Appl |
| 999 | 28 | 56.0 | 186 | 2 | US-09-199-637A-7 | Sequence 7, Appli |
| 1000 | 28 | 56.0 | 186 | 2 | US-09-252-991A-18516 | Sequence 18516, A |

ALIGNMENTS

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RESULT 1
US-08-934-915-167
; Sequence 167, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  167:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  21 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-167

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  Best Local Similarity  100.0%;  Pred. No. 0.34;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
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Db          8 SCCRSSRTR 16


RESULT 2
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
;  APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
;  TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 FC
;  TITLE OF INVENTION:  TRANSCRIPTIONAL REGULATION
;  FILE REFERENCE: N73477C GCW
;  CURRENT APPLICATION NUMBER: US/09/701,080C
;  CURRENT FILING DATE:  2001-02-27
;  PRIOR APPLICATION NUMBER: GB 9811303.8
;  PRIOR FILING DATE: 1998-05-26
;  PRIOR APPLICATION NUMBER: GB 9900157.0
;  PRIOR FILING DATE: 1999-01-05
;  NUMBER OF SEQ ID NOS: 36
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-09-701-080C-18

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  Best Local Similarity  100.0%;  Pred. No. 1.7;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
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Db        138 SCCRSSRTR 146


RESULT 3
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-2
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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
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Db        145 SCCRSSRTR 153


RESULT 4
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-3

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Qy          1 SCCRSSRTR 9
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Db        145 SCCRSSRTR 153


RESULT 5
US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-4

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Qy          1 SCCRSSRTR 9
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Db        145 SCCRSSRTR 153


RESULT 6
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

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Qy          1 SCCRSSRTR 9
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Db         83 SCCRSSRTR 91


RESULT 7
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-12

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Qy          1 SCCRSSRTR 9
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Db         83 SCCRSSRTR 91


RESULT 8
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
;  APPLICANT:  KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION:  ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE:  017753-122
;  CURRENT APPLICATION NUMBER: US/09/462,993
;  CURRENT FILING DATE:  2000-04-17
;  PRIOR APPLICATION NUMBER:  PCT/FR98/01576
;  PRIOR FILING DATE:  1998-07-17
;  PRIOR APPLICATION NUMBER:  FR 97/09152
;  PRIOR FILING DATE:  1997-07-18
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

  Query Match            100.0%;  Score 50;  DB 2;  Length 243;
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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        168 SCCRSSRTR 176


RESULT 9
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

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Db        145 SCCRSSRTR 153


RESULT 10
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-10

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Qy          1 SCCRSSRTR 9
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Db        145 SCCRSSRTR 153


RESULT 11
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 50;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 2.7;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        145 SCCRSSRTR 153


RESULT 12
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-4

  Query Match             100.0%;  Score 50;  DB 2;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 2.7;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        251 SCCRSSRTR 259


RESULT 13
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-10

  Query Match             100.0%;  Score 50;  DB 2;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 2.9;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        270 SCCRSSRTR 278


RESULT 14
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-6

  Query Match             100.0%;  Score 50;  DB 2;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 3.5;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        251 SCCRSSRTR 259


RESULT 15
US-09-485-885-14
```

```
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-14

  Query Match             100.0%;  Score 50;  DB 2;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 3.7;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        270 SCCRSSRTR 278


RESULT 16
US-09-252-991A-21156
; Sequence 21156, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 21156
;   LENGTH: 136
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21156

  Query Match             82.0%;  Score 41;  DB 2;  Length 136;
  Best Local Similarity   77.8%;  Pred. No. 31;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              ||| :||||
Db         67 SCCSASRTR 75


RESULT 17
US-09-252-991A-33122
; Sequence 33122, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 33122
;   LENGTH: 230
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-33122

  Query Match             82.0%;  Score 41;  DB 2;  Length 230;
  Best Local Similarity   87.5%;  Pred. No. 47;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CCRSSRTR 9
              |||| |||
Db         97 CCRSCRTR 104


RESULT 18
US-09-252-991A-17724
; Sequence 17724, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 17724
;   LENGTH: 147
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17724

  Query Match             78.0%;  Score 39;  DB 2;  Length 147;
  Best Local Similarity   77.8%;  Pred. No. 63;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              ||| ||| |
Db        134 SCCNSSRCR 142


RESULT 19
US-08-311-731A-381
; Sequence 381, Application US/08311731A
; Patent No. 6583266
;  GENERAL INFORMATION:
;    APPLICANT:  SMITH, DOUGLAS
;    APPLICANT:  MAO, JEN-I
;    TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES
;    TITLE OF INVENTION:  RELATING TO MYCOBACTERIUM TUBERCULOSIS AND LAPRAE FOR
;    TITLE OF INVENTION:  DIAGNOSTICS AND THERAPEUTICS
;    NUMBER OF SEQUENCES:  411
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  WOLF, GREENFIELD & SACKS, P.C.
;      STREET:  600 ATLANTIC AVENUE
;      CITY:  BOSTON
;      STATE:  MASSACHUSETTS
;      COUNTRY:  USA
;      ZIP:  02210
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
```

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;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/311,731A
;       FILING DATE:
;       CLASSIFICATION:  530
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  GATES, EDWARD R.
;       REGISTRATION NUMBER:  31,616
;       REFERENCE/DOCKET NUMBER:  C0044/7125
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  617/720-3500
;       TELEFAX:  617/720-2441
;   INFORMATION FOR SEQ ID NO:  381:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  171 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
;     HYPOTHETICAL:  YES
;     ORIGINAL SOURCE:
;       ORGANISM:  Mycobacterium leprae
US-08-311-731A-381

  Query Match             78.0%;  Score 39;  DB 2;  Length 171;
  Best Local Similarity   87.5%;  Pred. No. 72;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CCRSSRTR 9
              ||||| ||
Db          4 CCRSSYTR 11


RESULT 20
US-09-252-991A-30039
; Sequence 30039, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 30039
;   LENGTH: 953
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30039

  Query Match             78.0%;  Score 39;  DB 2;  Length 953;
  Best Local Similarity   87.5%;  Pred. No. 2.9e+02;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CCRSSRTR 9
              |||||| |
Db        929 CCRSSRHR 936


RESULT 21
US-09-252-991A-29076
; Sequence 29076, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 29076
;   LENGTH: 113
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-29076

  Query Match             76.0%;  Score 38;  DB 2;  Length 113;
  Best Local Similarity   75.0%;  Pred. No. 71;
  Matches    6;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRT 8
              :||||||:
Db         49 ACCRSSRS 56


RESULT 22
US-09-489-039A-12930
; Sequence 12930, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
;  APPLICANT:  Gary Breton et. al
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
;  TITLE OF INVENTION:  PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  2709.2004001
;  CURRENT APPLICATION NUMBER: US/09/489,039A
;  CURRENT FILING DATE:  2000-01-27
;  PRIOR APPLICATION NUMBER:  US 60/117,747
;  PRIOR FILING DATE:  1999-01-29
;  NUMBER OF SEQ ID NOS:  14342
; SEQ ID NO 12930
;   LENGTH: 138
;   TYPE: PRT
;   ORGANISM: Klebsiella pneumoniae
US-09-489-039A-12930

  Query Match             76.0%;  Score 38;  DB 2;  Length 138;
  Best Local Similarity   66.7%;  Pred. No. 84;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              :|||:|| |
Db         33 TCCRNSRRR 41


RESULT 23
US-09-252-991A-30960
; Sequence 30960, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 30960
;   LENGTH: 154
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30960
```

```
  Query Match             76.0%;  Score 38;  DB 2;  Length 154;
  Best Local Similarity   77.8%;  Pred. No. 92;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              : |||||||
Db         43 AACRSSRTR 51


RESULT 24
US-09-270-767-36971
; Sequence 36971, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 36971
;   LENGTH: 161
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
;   FEATURE:
;   OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-36971

  Query Match             74.0%;  Score 37;  DB 2;  Length 161;
  Best Local Similarity   66.7%;  Pred. No. 1.3e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              ||| : |||
Db         87 SCCSAXRTR 95


RESULT 25
US-09-270-767-52188
; Sequence 52188, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 52188
;   LENGTH: 161
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
;   FEATURE:
;   OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-52188

  Query Match             74.0%;  Score 37;  DB 2;  Length 161;
  Best Local Similarity   66.7%;  Pred. No. 1.3e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              ||| : |||
Db         87 SCCSAXRTR 95


RESULT 26
US-09-270-767-32689
; Sequence 32689, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 32689
;   LENGTH: 207
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-32689

  Query Match             74.0%;  Score 37;  DB 2;  Length 207;
  Best Local Similarity   85.7%;  Pred. No. 1.6e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CCRSSRT 8
              ||| |||
Db        106 CCRDSRT 112


RESULT 27
US-09-270-767-47906
; Sequence 47906, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 47906
;   LENGTH: 207
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-47906

  Query Match             74.0%;  Score 37;  DB 2;  Length 207;
  Best Local Similarity   85.7%;  Pred. No. 1.6e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CCRSSRT 8
              ||| |||
Db        106 CCRDSRT 112


RESULT 28
US-09-252-991A-26200
; Sequence 26200, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 26200
;   LENGTH: 153
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-26200

  Query Match             72.0%;  Score 36;  DB 2;  Length 153;
  Best Local Similarity   75.0%;  Pred. No. 1.8e+02;
```

Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
Qy          2 CCRSSRTR 9
              ||:|| ||
Db         16 CCQSSSTR 23
```

RESULT 29
US-09-252-991A-18341
; Sequence 18341, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 18341
; LENGTH: 224
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18341

Query Match 72.0%; Score 36; DB 2; Length 224;
Best Local Similarity 77.8%; Pred. No. 2.4e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 SCCRSSRTR 9
              | |||||:|
Db         70 SSCRSSRSR 78
```

RESULT 30
US-09-477-962-125
; Sequence 125, Application US/09477962
; Patent No. 6927286
; GENERAL INFORMATION:
; APPLICANT: SHEN, BEN
; APPLICANT: DU, LIANGCHENG
; APPLICANT: SANCHEZ, CESAR
; APPLICANT: CHEN, MEI
; APPLICANT: EDWARDS, DANIEL J.
; TITLE OF INVENTION: BLEOMYCIN GENE CLUSTER COMPONENTS AND THEIR USES
; FILE REFERENCE: 407T-895820US
; CURRENT APPLICATION NUMBER: US/09/477,962
; CURRENT FILING DATE: 2000-01-05
; PRIOR APPLICATION NUMBER: 60/115,435
; PRIOR FILING DATE: 1999-01-06
; PRIOR APPLICATION NUMBER: 60/118,848
; PRIOR FILING DATE: 1999-02-05
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 125
; LENGTH: 337
; TYPE: PRT
; ORGANISM: Streptomyces verticillus
; FEATURE:
; OTHER INFORMATION: ORF40
US-09-477-962-125

Query Match 72.0%; Score 36; DB 2; Length 337;
Best Local Similarity 75.0%; Pred. No. 3.4e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```
Qy          2 CCRSSRTR 9
              ||| || |
Db        118 CCRGSRDR 125
```

RESULT 31
US-09-252-991A-21791
; Sequence 21791, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21791
; LENGTH: 446
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21791

Query Match 72.0%; Score 36; DB 2; Length 446;
Best Local Similarity 75.0%; Pred. No. 4.2e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```
Qy          2 CCRSSRTR 9
              |||| | |
Db          9 CCRSGRRR 16
```

RESULT 32
US-09-964-956-44
; Sequence 44, Application US/09964956
; Patent No. 6875570
; GENERAL INFORMATION:
; APPLICANT: Gerlach, Valerie L
; APPLICANT: MacDougall, John R
; APPLICANT: Smithson, Glennda
; APPLICANT: Millet, Isabelle
; APPLICANT: Stone, David
; APPLICANT: Gunther, Erik
; APPLICANT: Ellerman, Karen
; APPLICANT: Grosse, William M
; APPLICANT: Alsobrook II, John P
; APPLICANT: Lepley, Denise M
; APPLICANT: Burgess, Catherine E
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Leach, Martin D
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: No. 6875570el Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-124
; CURRENT APPLICATION NUMBER: US/09/964,956
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/235,631
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,633
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,808
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,064
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,065
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,066
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,135
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/237,434

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;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/238,321
;  PRIOR FILING DATE: 2000-10-05
;  PRIOR APPLICATION NUMBER: 60/238,399
;  PRIOR FILING DATE: 2000-10-06
;  PRIOR APPLICATION NUMBER: 60/238,396
;  PRIOR FILING DATE: 2000-10-06
;  PRIOR APPLICATION NUMBER: 60/276,667
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/294,823
;  PRIOR FILING DATE: 2001-05-31
;  PRIOR APPLICATION NUMBER: 60/304,868
;  PRIOR FILING DATE: 2001-07-12
;  NUMBER OF SEQ ID NOS: 127
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 44
;   LENGTH: 1905
;   TYPE: PRT
;   ORGANISM: Xenopus laevis
US-09-964-956-44

  Query Match             72.0%;  Score 36;  DB 2;  Length 1905;
  Best Local Similarity   75.0%;  Pred. No. 1.4e+03;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRT 8
              ||||| :|
Db       1506 SCCRSPQT 1513


RESULT 33
US-09-270-767-58297
; Sequence 58297, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 58297
;   LENGTH: 44
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-58297

  Query Match             70.0%;  Score 35;  DB 2;  Length 44;
  Best Local Similarity   75.0%;  Pred. No. 90;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRT 8
              |||  |||
Db         19 SCCAGSRT 26


RESULT 34
US-08-660-789-6
; Sequence 6, Application US/08660789
; Patent No. 5843405
;  GENERAL INFORMATION:
;    APPLICANT:  Middeldorp, Jaap M.
;    TITLE OF INVENTION:  Epstein Barr Virus peptides and
;    TITLE OF INVENTION:  antibodies against these peptides
;    NUMBER OF SEQUENCES:  10
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Akzo No. 5843405el Patent Department
;      STREET:  1300 Piccard Drive, Suite 206
;      CITY:  Rockville
;      STATE:  Maryland
;      COUNTRY:  USA
;      ZIP:  20850
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30 (EPO)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/660,789
;      FILING DATE:  06-JUN-1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Gormley, Mary E.
;      REGISTRATION NUMBER:  34,409
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (301) 258-5200
;      TELEFAX:  (301) 977-0847
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  47 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    ORIGINAL SOURCE:
;      ORGANISM:  Epstein-Barr virus
;    FEATURE:
;      NAME/KEY:  Disulfide-bond
;      LOCATION:  21..22
;      OTHER INFORMATION:  /note= "The two cysteine residues
;      OTHER INFORMATION:  (AA 20 and AA 21) are introduced to link two separate
;      OTHER INFORMATION:  peptides."
US-08-660-789-6

  Query Match             70.0%;  Score 35;  DB 1;  Length 47;
  Best Local Similarity   75.0%;  Pred. No. 95;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRT 8
              ||| || |
Db         19 SCCHSSNT 26


RESULT 35
US-09-074-114-6
; Sequence 6, Application US/09074114
; Patent No. 6143865
;  GENERAL INFORMATION:
;    APPLICANT:  Middeldorp, Jaap Michiel
;    TITLE OF INVENTION:  Epstein Barr Virus peptides and
;    TITLE OF INVENTION:  antibodies against these peptides
;    NUMBER OF SEQUENCES:  10
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Akzo No. 6143865el Patent Dept.
;      STREET:  1300 Piccard Drive, Suite 206
;      CITY:  Rockville
;      STATE:  Maryland
;      COUNTRY:  US
;      ZIP:  20850
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/074,114
;      FILING DATE:  07-MAY-1998
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Klesner, Sharon N.
;      REGISTRATION NUMBER:  36,335
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  301-948-7400
;      TELEFAX:  301-948-9751
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
```

```
;      LENGTH:  47 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    ORIGINAL SOURCE:
;      ORGANISM:  Epstein-Barr virus
;    FEATURE:
;      NAME/KEY:  Disulfide-bond
;      LOCATION:  21..22
;      OTHER INFORMATION:  /note= "The two cysteine residues
;      OTHER INFORMATION:  (AA 20 and AA 21) are introduced to link two
;      OTHER INFORMATION:  separate peptides."
US-09-074-114-6

  Query Match             70.0%;  Score 35;  DB 2;  Length 47;
  Best Local Similarity   75.0%;  Pred. No. 95;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRT 8
              ||| || |
Db         19 SCCHSSNT 26


RESULT 36
US-09-252-991A-25071
; Sequence 25071, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 25071
;   LENGTH: 87
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-25071

  Query Match             70.0%;  Score 35;  DB 2;  Length 87;
  Best Local Similarity   85.7%;  Pred. No. 1.6e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CCRSSRT 8
              ||||| |
Db         53 CCRSSAT 59


RESULT 37
US-09-489-039A-9392
; Sequence 9392, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
;  APPLICANT:  Gary Breton et. al
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
;  TITLE OF INVENTION:  PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  2709.2004001
;  CURRENT APPLICATION NUMBER: US/09/489,039A
;  CURRENT FILING DATE:  2000-01-27
;  PRIOR APPLICATION NUMBER:  US 60/117,747
;  PRIOR FILING DATE:  1999-01-29
;  NUMBER OF SEQ ID NOS:  14342
; SEQ ID NO 9392
;   LENGTH: 108
;   TYPE: PRT
;   ORGANISM: Klebsiella pneumoniae
US-09-489-039A-9392

  Query Match             70.0%;  Score 35;  DB 2;  Length 108;
  Best Local Similarity   66.7%;  Pred. No. 1.9e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              :|||||  |
Db         95 TCCRSSAPR 103


RESULT 38
US-09-252-991A-22787
; Sequence 22787, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 22787
;   LENGTH: 109
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-22787

  Query Match             70.0%;  Score 35;  DB 2;  Length 109;
  Best Local Similarity   75.0%;  Pred. No. 1.9e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 CCRSSRTR 9
              ||| || |
Db         65 CCRRSRRR 72


RESULT 39
US-09-252-991A-29444
; Sequence 29444, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 29444
;   LENGTH: 109
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-29444

  Query Match             70.0%;  Score 35;  DB 2;  Length 109;
  Best Local Similarity   75.0%;  Pred. No. 1.9e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRT 8
              :|||||  |
Db         89 ACCRSSPT 96
```

```
RESULT 40
US-09-270-767-35721
; Sequence 35721, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 35721
;   LENGTH: 140
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-35721

  Query Match             70.0%;  Score 35;  DB 2;  Length 140;
  Best Local Similarity   75.0%;  Pred. No. 2.3e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRT 8
              |||| | |
Db         27 SCCRDSST 34


RESULT 41
US-09-270-767-50938
; Sequence 50938, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 50938
;   LENGTH: 140
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-50938

  Query Match             70.0%;  Score 35;  DB 2;  Length 140;
  Best Local Similarity   75.0%;  Pred. No. 2.3e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRT 8
              |||| | |
Db         27 SCCRDSST 34


RESULT 42
US-09-252-991A-24700
; Sequence 24700, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 24700
;   LENGTH: 150
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24700

  Query Match             70.0%;  Score 35;  DB 2;  Length 150;
  Best Local Similarity   75.0%;  Pred. No. 2.4e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 CCRSSRTR 9
              ||| | ||
Db        103 CCRRSSTR 110


RESULT 43
US-09-252-991A-32502
; Sequence 32502, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 32502
;   LENGTH: 168
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-32502

  Query Match             70.0%;  Score 35;  DB 2;  Length 168;
  Best Local Similarity   85.7%;  Pred. No. 2.7e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSR 7
              |||| ||
Db        148 SCCRCSR 154


RESULT 44
US-09-252-991A-18240
; Sequence 18240, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 18240
;   LENGTH: 202
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18240

  Query Match             70.0%;  Score 35;  DB 2;  Length 202;
  Best Local Similarity   61.5%;  Pred. No. 3.1e+02;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    4;  Gaps    1;

Qy          1 SCCR----SSRTR 9
              :|||    |||||
Db         47 ACCRLPCTSSRTR 59
```

```
RESULT 45
US-09-252-991A-28110
; Sequence 28110, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 28110
;   LENGTH: 202
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-28110

  Query Match             70.0%;  Score 35;  DB 2;  Length 202;
  Best Local Similarity   77.8%;  Pred. No. 3.1e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              | |||||  |
Db         61 SACRSSRCR 69


RESULT 46
US-09-252-991A-28014
; Sequence 28014, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 28014
;   LENGTH: 210
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-28014

  Query Match             70.0%;  Score 35;  DB 2;  Length 210;
  Best Local Similarity   75.0%;  Pred. No. 3.2e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 CCRSSRTR 9
              |||| | |
Db         62 CCRSGRGR 69


RESULT 47
US-09-270-767-42972
; Sequence 42972, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 42972
;   LENGTH: 214
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
;   FEATURE:
;   OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-42972

  Query Match             70.0%;  Score 35;  DB 2;  Length 214;
  Best Local Similarity   75.0%;  Pred. No. 3.2e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRT 8
              |||  |||
Db         19 SCCAGSRT 26


RESULT 48
US-09-252-991A-28972
; Sequence 28972, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 28972
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-28972

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; Sequence 24140, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
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;  NUMBER OF SEQ ID NOS:  33142
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RESULT 50
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; Sequence 20916, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
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;  PRIOR FILING DATE:  1998-07-27
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US-09-252-991A-20916

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OM protein - protein search, using sw model

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| 979 | 31 | 62.0 | 30 | 4 | US-10-767-701-52280 | Sequence 52280, A |
| 980 | 31 | 62.0 | 31 | 3 | US-09-910-082A-290 | Sequence 290, App |
| 981 | 31 | 62.0 | 31 | 3 | US-09-910-082A-407 | Sequence 407, App |
| 982 | 31 | 62.0 | 31 | 4 | US-10-765-926-290 | Sequence 290, App |
| 983 | 31 | 62.0 | 31 | 4 | US-10-765-926-407 | Sequence 407, App |
| 984 | 31 | 62.0 | 31 | 5 | US-10-450-763-58406 | Sequence 58406, A |
| 985 | 31 | 62.0 | 32 | 4 | US-10-425-115-334377 | Sequence 334377, |
| 986 | 31 | 62.0 | 33 | 5 | US-10-450-763-54905 | Sequence 54905, A |
| 987 | 31 | 62.0 | 36 | 3 | US-09-864-761-40469 | Sequence 40469, A |
| 988 | 31 | 62.0 | 36 | 4 | US-10-425-115-364455 | Sequence 364455, |
| 989 | 31 | 62.0 | 39 | 5 | US-10-450-763-43813 | Sequence 43813, A |
| 990 | 31 | 62.0 | 42 | 4 | US-10-425-115-221597 | Sequence 221597, |
| 991 | 31 | 62.0 | 44 | 4 | US-10-437-963-153058 | Sequence 153058, |
| 992 | 31 | 62.0 | 44 | 5 | US-10-450-763-46398 | Sequence 46398, A |
| 993 | 31 | 62.0 | 46 | 4 | US-10-424-599-223467 | Sequence 223467, |
| 994 | 31 | 62.0 | 46 | 4 | US-10-424-599-248663 | Sequence 248663, |
| 995 | 31 | 62.0 | 48 | 4 | US-10-437-963-127074 | Sequence 127074, |
| 996 | 31 | 62.0 | 48 | 4 | US-10-437-963-127103 | Sequence 127103, |
| 997 | 31 | 62.0 | 49 | 3 | US-09-764-847-871 | Sequence 871, App |
| 998 | 31 | 62.0 | 49 | 4 | US-10-092-154-871 | Sequence 871, App |
| 999 | 31 | 62.0 | 53 | 4 | US-10-425-115-364847 | Sequence 364847, |
| 1000 | 31 | 62.0 | 54 | 4 | US-10-424-599-230610 | Sequence 230610, |

ALIGNMENTS

RESULT 1
US-10-484-063-9
; Sequence 9, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-9

Query Match 100.0%; Score 50; DB 5; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SCCRSSRTR 9
||||||||| 
Db 8 SCCRSSRTR 16

RESULT 2
US-10-938-249-513
; Sequence 513, Application US/10938249
; Publication No. US20050037969A1
; GENERAL INFORMATION:
; APPLICANT: Lu, Peter S.
; APPLICANT: Rabinowitz, Joshua D.
; APPLICANT: Schweizer, Johannes
; APPLICANT: Arbor Vita Corporation
; TITLE OF INVENTION: Molecular Interactions in Hematopoietic
; TITLE OF INVENTION: Cells
; FILE REFERENCE: 020054-001130US
; CURRENT APPLICATION NUMBER: US/10/938,249
; CURRENT FILING DATE: 2004-09-10
; PRIOR APPLICATION NUMBER: US/09/724,553
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: US 60/134,114
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: US 60/134,117
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: US 60/134,118
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: US 60/160,860
; PRIOR FILING DATE: 1999-10-21
; PRIOR APPLICATION NUMBER: US 60/162,498
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 60/170,453
; PRIOR FILING DATE: 1999-12-13
; PRIOR APPLICATION NUMBER: US 60/176,195
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: US 60/182,296
; PRIOR FILING DATE: 2000-02-14
; PRIOR APPLICATION NUMBER: US 60/196,267
; PRIOR FILING DATE: 2000-04-11
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 543
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 513
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HPV16 E6 C-terminal
US-10-938-249-513

Query Match 100.0%; Score 50; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SCCRSSRTR 9
||||||||| 
Db 7 SCCRSSRTR 15

RESULT 3
US-10-476-570-44
; Sequence 44, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 44
; LENGTH: 24
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 135-158
US-10-476-570-44

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  Query Match           100.0%;  Score 50;  DB 4;  Length 24;
  Best Local Similarity  100.0%;  Pred. No. 1.6;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db         11 SCCRSSRTR 19


RESULT 4
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
;  APPLICANT: Schuler, Gerold
;  APPLICANT:  N.V. Antwerps Innovatiecentrum
;  TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
;  TITLE OF INVENTION:  Polynucleotides by Electroporation
;  FILE REFERENCE: 021505wo/JH/ml
;  CURRENT APPLICATION NUMBER: US/10/177,390
;  CURRENT FILING DATE:  2002-06-20
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-177-390-6

  Query Match           100.0%;  Score 50;  DB 4;  Length 151;
  Best Local Similarity  100.0%;  Pred. No. 6.6;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        138 SCCRSSRTR 146


RESULT 5
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-484-063-20

  Query Match           100.0%;  Score 50;  DB 5;  Length 151;
  Best Local Similarity  100.0%;  Pred. No. 6.6;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        138 SCCRSSRTR 146


RESULT 6
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-484-063-27

  Query Match           100.0%;  Score 50;  DB 5;  Length 151;
  Best Local Similarity  100.0%;  Pred. No. 6.6;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        138 SCCRSSRTR 146


RESULT 7
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-10-858-384-2

  Query Match           100.0%;  Score 50;  DB 5;  Length 158;
  Best Local Similarity  100.0%;  Pred. No. 6.8;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        145 SCCRSSRTR 153


RESULT 8
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
```

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; GENERAL INFORMATION:
;  APPLICANT: Cuthill, Scott;
;  APPLICANT:  Jackson, Amanda;
;  APPLICANT:  Lewin, David A.;
;  APPLICANT:  Ooi, Chean Eng
;  TITLE OF INVENTION: Complexes and Methods of Using Same
;  FILE REFERENCE: 21402-559
;  CURRENT APPLICATION NUMBER: US/10/367,057
;  CURRENT FILING DATE:  2003-02-14
;  PRIOR APPLICATION NUMBER: 60/256,911
;  PRIOR FILING DATE: 2002-02-14
;  NUMBER OF SEQ ID NOS: 198
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 16
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-367-057-16

  Query Match             100.0%;  Score 50;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 6.8;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        145 SCCRSSRTR 153


RESULT 9
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

  Query Match             100.0%;  Score 50;  DB 6;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 6.8;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        145 SCCRSSRTR 153


RESULT 10
US-10-472-724-2
; Sequence 2, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
;  APPLICANT: Cid-Arregui, Angel
;  APPLICANT:  Zur Hausen, Harald
;  TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
;  FILE REFERENCE: 4121-154
;  CURRENT APPLICATION NUMBER: US/10/472,724
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP02/03271
;  PRIOR FILING DATE: 2002-03-22
;  PRIOR APPLICATION NUMBER: EP 01107271.7
;  PRIOR FILING DATE: 2001-03-23
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
;   LENGTH: 171
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

  Query Match             100.0%;  Score 50;  DB 4;  Length 171;
  Best Local Similarity   100.0%;  Pred. No. 7.3;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        150 SCCRSSRTR 158


RESULT 11
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
;  APPLICANT: KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE: 017753-122
;  CURRENT APPLICATION NUMBER: US/11/072,288
;  CURRENT FILING DATE:  2005-03-07
;  PRIOR APPLICATION NUMBER: US/09/462,993
;  PRIOR FILING DATE: 2000-04-17
;  PRIOR APPLICATION NUMBER: PCT/FR98/01576
;  PRIOR FILING DATE: 1998-07-17
;  PRIOR APPLICATION NUMBER: FR 97/09152
;  PRIOR FILING DATE: 1997-07-18
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

  Query Match             100.0%;  Score 50;  DB 6;  Length 243;
  Best Local Similarity   100.0%;  Pred. No. 9.6;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        168 SCCRSSRTR 176


RESULT 12
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
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;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;    LENGTH: 266
;    TYPE: PRT
;    ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 50;  DB 3;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 10;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        145 SCCRSSRTR 153


RESULT 13
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;    LENGTH: 273
;    TYPE: PRT
;    ORGANISM: Homo sapien
US-10-000-903-4

  Query Match             100.0%;  Score 50;  DB 4;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 11;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        251 SCCRSSRTR 259


RESULT 14
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;    LENGTH: 273
;    TYPE: PRT
;    ORGANISM: Artificial Sequence
;    FEATURE:
;    OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;    OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
;    OTHER INFORMATION: 16)
US-10-899-771-4

  Query Match             100.0%;  Score 50;  DB 5;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 11;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        251 SCCRSSRTR 259


RESULT 15
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;    LENGTH: 292
;    TYPE: PRT
;    ORGANISM: Homo sapien
US-10-000-903-10

  Query Match             100.0%;  Score 50;  DB 4;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 11;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        270 SCCRSSRTR 278


RESULT 16
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
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;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
;   OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-10

  Query Match            100.0%;  Score 50;  DB 5;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 11;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        270 SCCRSSRTR 278


RESULT 17
US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-6

  Query Match            100.0%;  Score 50;  DB 4;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 13;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        251 SCCRSSRTR 259


RESULT 18
US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
;   OTHER INFORMATION: virus type 16)
US-10-899-771-6

  Query Match            100.0%;  Score 50;  DB 5;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 13;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        251 SCCRSSRTR 259


RESULT 19
US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-14

  Query Match            100.0%;  Score 50;  DB 4;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 14;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        270 SCCRSSRTR 278


RESULT 20
US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
```

```
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
;   OTHER INFORMATION: pneumoniae and E6E7 fusion from Human papilloma
;   OTHER INFORMATION: virus type 16)
US-10-899-771-14

  Query Match             100.0%;  Score 50;  DB 5;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 14;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        270 SCCRSSRTR 278


RESULT 21
US-09-397-945-213
; Sequence 213, Application US/09397945
; Publication No. US20030065139A1
; GENERAL INFORMATION:
;  APPLICANT: Human Genome Sciences, Inc. et al.
;  TITLE OF INVENTION: 95 Human secreted proteins
;  FILE REFERENCE: PZ027P1
;  CURRENT APPLICATION NUMBER: US/09/397,945
;  CURRENT FILING DATE:  1999-09-17
;  PRIOR APPLICATION NUMBER: PCT/US99/05804
;  PRIOR FILING DATE: 1999-03-18
;  PRIOR APPLICATION NUMBER: 60/078,566
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,576
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,573
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,574
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,579
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/080,314
;  PRIOR FILING DATE: 1998-04-01
;  PRIOR APPLICATION NUMBER: 60/080,312
;  PRIOR FILING DATE: 1998-04-01
;  PRIOR APPLICATION NUMBER: 60/078,578
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,581
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,577
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,563
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/080,313
;  PRIOR FILING DATE: 1998-04-01
;  NUMBER OF SEQ ID NOS: 470
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 213
;   LENGTH: 43
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-397-945-213

  Query Match             88.0%;  Score 44;  DB 3;  Length 43;
  Best Local Similarity   88.9%;  Pred. No. 18;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||  |
Db         10 SCCRSSRRR 18


RESULT 22
US-10-653-595-213
; Sequence 213, Application US/10653595
; Publication No. US20040048304A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et. al.
;  TITLE OF INVENTION: 95 Human secreted proteins
;  FILE REFERENCE: PZ027P1C1
;  CURRENT APPLICATION NUMBER: US/10/653,595
;  CURRENT FILING DATE:  2003-09-03
;  PRIOR APPLICATION NUMBER: US 09/397945
;  PRIOR FILING DATE: 1999-09-17
;  PRIOR APPLICATION NUMBER: PCT/US99/05804
;  PRIOR FILING DATE: 1999-03-18
;  PRIOR APPLICATION NUMBER: 60/078,566
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,576
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,573
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,574
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,579
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/080,314
;  PRIOR FILING DATE: 1998-04-01
;  PRIOR APPLICATION NUMBER: 60/080,312
;  PRIOR FILING DATE: 1998-04-01
;  PRIOR APPLICATION NUMBER: 60/078,578
;  PRIOR FILING DATE: 1998-03-19
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 470
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 213
;   LENGTH: 43
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-653-595-213

  Query Match             88.0%;  Score 44;  DB 4;  Length 43;
  Best Local Similarity   88.9%;  Pred. No. 18;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||  |
Db         10 SCCRSSRRR 18


RESULT 23
US-09-397-945-211
; Sequence 211, Application US/09397945
; Publication No. US20030065139A1
; GENERAL INFORMATION:
;  APPLICANT: Human Genome Sciences, Inc. et al.
;  TITLE OF INVENTION: 95 Human secreted proteins
;  FILE REFERENCE: PZ027P1
;  CURRENT APPLICATION NUMBER: US/09/397,945
;  CURRENT FILING DATE:  1999-09-17
;  PRIOR APPLICATION NUMBER: PCT/US99/05804
;  PRIOR FILING DATE: 1999-03-18
;  PRIOR APPLICATION NUMBER: 60/078,566
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,576
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,573
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,574
```

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;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,579
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/080,314
;  PRIOR FILING DATE: 1998-04-01
;  PRIOR APPLICATION NUMBER: 60/080,312
;  PRIOR FILING DATE: 1998-04-01
;  PRIOR APPLICATION NUMBER: 60/078,578
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,581
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,577
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,563
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/080,313
;  PRIOR FILING DATE: 1998-04-01
;  NUMBER OF SEQ ID NOS: 470
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 211
;   LENGTH: 137
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (10)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-397-945-211

  Query Match             88.0%;  Score 44;  DB 3;  Length 137;
  Best Local Similarity   88.9%;  Pred. No. 45;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              ||||||| |
Db         51 SCCRSSRRR 59


RESULT 24
US-10-653-595-211
; Sequence 211, Application US/10653595
; Publication No. US20040048304A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et. al.
;  TITLE OF INVENTION: 95 Human secreted proteins
;  FILE REFERENCE: PZ027P1C1
;  CURRENT APPLICATION NUMBER: US/10/653,595
;  CURRENT FILING DATE:  2003-09-03
;  PRIOR APPLICATION NUMBER: US 09/397945
;  PRIOR FILING DATE: 1999-09-17
;  PRIOR APPLICATION NUMBER: PCT/US99/05804
;  PRIOR FILING DATE: 1999-03-18
;  PRIOR APPLICATION NUMBER: 60/078,566
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,576
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,573
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,574
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,579
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/080,314
;  PRIOR FILING DATE: 1998-04-01
;  PRIOR APPLICATION NUMBER: 60/080,312
;  PRIOR FILING DATE: 1998-04-01
;  PRIOR APPLICATION NUMBER: 60/078,578
;  PRIOR FILING DATE: 1998-03-19
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 470
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 211
;   LENGTH: 137
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (10)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-653-595-211

  Query Match             88.0%;  Score 44;  DB 4;  Length 137;
  Best Local Similarity   88.9%;  Pred. No. 45;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              ||||||| |
Db         51 SCCRSSRRR 59


RESULT 25
US-10-425-114-67214
; Sequence 67214, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 67214
;   LENGTH: 125
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: LIB4760-024-F1_FLI.pep
US-10-425-114-67214

  Query Match             84.0%;  Score 42;  DB 4;  Length 125;
  Best Local Similarity   87.5%;  Pred. No. 81;
  Matches    7;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRT 8
              |||||:||
Db         97 SCCRSTRT 104


RESULT 26
US-10-425-114-65786
; Sequence 65786, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 65786
;   LENGTH: 245
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
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```
;   OTHER INFORMATION: Clone ID: LIB3245-175-H1_FLI.pep
US-10-425-114-65786

  Query Match             84.0%;  Score 42;  DB 4;  Length 245;
  Best Local Similarity   77.8%;  Pred. No. 1.4e+02;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              :||| ||||
Db          3 TCCRCSRTR 11


RESULT 27
US-10-424-599-245237
; Sequence 245237, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 245237
;   LENGTH: 35
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_6347C.1.pep
US-10-424-599-245237

  Query Match             82.0%;  Score 41;  DB 4;  Length 35;
  Best Local Similarity   100.0%;  Pred. No. 41;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CCRSSRT 8
              |||||||
Db         24 CCRSSRT 30


RESULT 28
US-10-425-115-184761
; Sequence 184761, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 184761
;   LENGTH: 102
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(102)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_100090C.1.pep
US-10-425-115-184761

  Query Match             78.0%;  Score 39;  DB 4;  Length 102;
  Best Local Similarity   75.0%;  Pred. No. 1.9e+02;
  Matches    6;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CCRSSRTR 9
              ||||:|:|
Db         11 CCRSARSR 18


RESULT 29
US-10-437-963-115033
; Sequence 115033, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 115033
;   LENGTH: 478
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_18668C.1.pep
US-10-437-963-115033

  Query Match             78.0%;  Score 39;  DB 4;  Length 478;
  Best Local Similarity   75.0%;  Pred. No. 6.3e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CCRSSRTR 9
              ||| :|||
Db        383 CCRGARTR 390


RESULT 30
US-10-437-963-196497
; Sequence 196497, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 196497
;   LENGTH: 686
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_92343C.1.pep
US-10-437-963-196497

  Query Match             78.0%;  Score 39;  DB 4;  Length 686;
  Best Local Similarity   75.0%;  Pred. No. 8.3e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;
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```
Qy          2 CCRSSRTR 9
              |||| ||:
Db        297 CCRSGRTK 304


RESULT 31
US-10-437-963-181461
; Sequence 181461, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 181461
;   LENGTH: 134
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(134)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_78732C.1.pep
US-10-437-963-181461

  Query Match             76.0%;  Score 38;  DB 4;  Length 134;
  Best Local Similarity   88.9%;  Pred. No. 3.2e+02;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              || ||||||
Db         64 SCHRSSRTR 72


RESULT 32
US-10-425-114-44271
; Sequence 44271, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 44271
;   LENGTH: 188
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: 701181412_FLI.pep
US-10-425-114-44271

  Query Match             76.0%;  Score 38;  DB 4;  Length 188;
  Best Local Similarity   66.7%;  Pred. No. 4.2e+02;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              ||| ||:|:
Db        158 SCCESSKTQ 166


RESULT 33
US-10-450-763-45016
; Sequence 45016, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
;  APPLICANT: Hyseq, Inc
;  TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
;  FILE REFERENCE: 790CIP3/US
;  CURRENT APPLICATION NUMBER: US/10/450,763
;  CURRENT FILING DATE:  2003-06-11
;  PRIOR APPLICATION NUMBER: PCT/US01/08631
;  PRIOR FILING DATE: 2001-03-30
;  PRIOR APPLICATION NUMBER: 09/540,217
;  PRIOR FILING DATE: 2000-03-31
;  PRIOR APPLICATION NUMBER: 09/649,167
;  PRIOR FILING DATE: 2000-08-23
;  NUMBER OF SEQ ID NOS: 60736
;  SOFTWARE: Custom
; SEQ ID NO 45016
;   LENGTH: 189
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)...(189)
;   OTHER INFORMATION: Xaa = X or * as defined in Table 2
US-10-450-763-45016

  Query Match             76.0%;  Score 38;  DB 5;  Length 189;
  Best Local Similarity   77.8%;  Pred. No. 4.2e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              ||||| | |
Db         57 SCCRSPRGR 65


RESULT 34
US-10-437-963-105833
; Sequence 105833, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 105833
;   LENGTH: 231
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_10334C.1.pep
US-10-437-963-105833

  Query Match             76.0%;  Score 38;  DB 4;  Length 231;
  Best Local Similarity   66.7%;  Pred. No. 4.9e+02;
```

```
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              :||| ||:|
Db        119 ACCRPSRSR 127


RESULT 35
US-10-437-963-160036
; Sequence 160036, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 160036
;   LENGTH: 251
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_59353C.1.pep
US-10-437-963-160036

  Query Match             76.0%;  Score 38;  DB 4;  Length 251;
  Best Local Similarity   77.8%;  Pred. No. 5.2e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||| |||
Db         56 SCCRCWRTR 64


RESULT 36
US-10-437-963-160782
; Sequence 160782, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 160782
;   LENGTH: 51
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_60028C.1.pep
US-10-437-963-160782

  Query Match             74.0%;  Score 37;  DB 4;  Length 51;
  Best Local Similarity   75.0%;  Pred. No. 2.1e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRT 8
              :|| ||||
Db         12 TCCHSSRT 19


RESULT 37
US-10-425-115-330614
; Sequence 330614, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 330614
;   LENGTH: 66
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_64620C.1.pep
US-10-425-115-330614

  Query Match             74.0%;  Score 37;  DB 4;  Length 66;
  Best Local Similarity   66.7%;  Pred. No. 2.6e+02;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              :||| ||:|
Db         13 NCCRISRSR 21


RESULT 38
US-10-425-115-244446
; Sequence 244446, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 244446
;   LENGTH: 69
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(69)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_154520C.1.pep
US-10-425-115-244446

  Query Match             74.0%;  Score 37;  DB 4;  Length 69;
  Best Local Similarity   87.5%;  Pred. No. 2.6e+02;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRT 8
              ||| ||||
Db         35 SCCFSSRT 42
```

```
RESULT 39
US-10-437-963-199754
; Sequence 199754, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 199754
;   LENGTH: 165
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_95291C.1.pep
US-10-437-963-199754

  Query Match             74.0%;  Score 37;  DB 4;  Length 165;
  Best Local Similarity   75.0%;  Pred. No. 5.3e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CCRSSRTR 9
              || :||||
Db        134 CCTASRTR 141


RESULT 40
US-11-097-143-40851
; Sequence 40851, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
;  APPLICANT: Venter, J. Craig
;  APPLICANT:  et al.
;  TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
;  TITLE OF INVENTION:  ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
;  TITLE OF INVENTION:  DROSOPHILA GENES.
;  FILE REFERENCE: CL000728
;  CURRENT APPLICATION NUMBER: US/11/097,143
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: 60/157,832
;  PRIOR FILING DATE: 1999-10-05
;  PRIOR APPLICATION NUMBER: 60/160,191
;  PRIOR FILING DATE: 1999-10-19
;  PRIOR APPLICATION NUMBER: 60/161,932
;  PRIOR FILING DATE: 1999-10-28
;  PRIOR APPLICATION NUMBER: 60/164,769
;  PRIOR FILING DATE: 1999-11-12
;  PRIOR APPLICATION NUMBER: 60/173,383
;  PRIOR FILING DATE: 1999-12-28
;  PRIOR APPLICATION NUMBER: 60/175,693
;  PRIOR FILING DATE: 2000-01-12
;  PRIOR APPLICATION NUMBER: 60/184,831
;  PRIOR FILING DATE: 2000-02-24
;  PRIOR APPLICATION NUMBER: 60/191,637
;  PRIOR FILING DATE: 2000-03-23
;  NUMBER OF SEQ ID NOS: 43008
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 40851
;   LENGTH: 513
;   TYPE: PRT
;   ORGANISM: DROSOPHILA
US-11-097-143-40851

  Query Match             74.0%;  Score 37;  DB 6;  Length 513;
  Best Local Similarity   85.7%;  Pred. No. 1.3e+03;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CCRSSRT 8
              ||| |||
Db        412 CCRDSRT 418


RESULT 41
US-10-425-115-250250
; Sequence 250250, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 250250
;   LENGTH: 46
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_159816C.1.pep
US-10-425-115-250250

  Query Match             72.0%;  Score 36;  DB 4;  Length 46;
  Best Local Similarity   75.0%;  Pred. No. 2.7e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CCRSSRTR 9
              |||| ||:
Db          2 CCRSVRTQ 9


RESULT 42
US-09-864-761-36259
; Sequence 36259, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
;  APPLICANT: Penn, Sharron G.
;  APPLICANT:  Rank, David R.
;  APPLICANT:  Hanzel, David K.
;  APPLICANT:  Chen, Wensheng
;  TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
;  TITLE OF INVENTION:  GENE EXPRESSION ANALYSIS BY MICROARRAY
;  FILE REFERENCE: Aeomica-X-1
;  CURRENT APPLICATION NUMBER: US/09/864,761
;  CURRENT FILING DATE:  2001-05-23
;  PRIOR APPLICATION NUMBER: US 60/180,312
;  PRIOR FILING DATE: 2000-02-04
;  PRIOR APPLICATION NUMBER: US 60/207,456
;  PRIOR FILING DATE: 2000-05-26
;  PRIOR APPLICATION NUMBER: US 09/632,366
;  PRIOR FILING DATE: 2000-08-03
;  PRIOR APPLICATION NUMBER: GB 24263.6
;  PRIOR FILING DATE: 2000-10-04
;  PRIOR APPLICATION NUMBER: US 60/236,359
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: PCT/US01/00666
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00667
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00664
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00669
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;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00665
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00668
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00663
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00662
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00661
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00670
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: US 60/234,687
;  PRIOR FILING DATE: 2000-09-21
;  PRIOR APPLICATION NUMBER: US 09/608,408
;  PRIOR FILING DATE: 2000-06-30
;  PRIOR APPLICATION NUMBER: US 09/774,203
;  PRIOR FILING DATE: 2001-01-29
;  NUMBER OF SEQ ID NOS: 49117
;  SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 36259
;   LENGTH: 61
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   OTHER INFORMATION: MAP TO AF134726.1
;   OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 6.1
;   OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL =  20
;   OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL =  87
;   OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL =  15
;   OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 4.9
;   OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 7.9
;   OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL =  11
;   OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL =   7
;   OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 3.8
;   OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 3.7
;   OTHER INFORMATION: EST_HUMAN HIT: AW630923.1, EVALUE 7.00e-22
;   OTHER INFORMATION: SWISSPROT HIT: Q06428, EVALUE 1.60e+00
US-09-864-761-36259

  Query Match             72.0%;  Score 36;  DB 3;  Length 61;
  Best Local Similarity   75.0%;  Pred. No. 3.3e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRT 8
              ||||:| |
Db         51 SCCRTSST 58


RESULT 43
US-10-437-963-173711
; Sequence 173711, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 173711
;   LENGTH: 71
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_71721C.1.pep
US-10-437-963-173711

  Query Match             72.0%;  Score 36;  DB 4;  Length 71;
  Best Local Similarity   75.0%;  Pred. No. 3.8e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRT 8
              |||| ||:
Db         39 SCCRRSRS 46


RESULT 44
US-11-097-143-23805
; Sequence 23805, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
;  APPLICANT: Venter, J. Craig
;  APPLICANT:  et al.
;  TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
;  TITLE OF INVENTION:  ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
;  TITLE OF INVENTION:  DROSOPHILA GENES.
;  FILE REFERENCE: CL000728
;  CURRENT APPLICATION NUMBER: US/11/097,143
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: 60/157,832
;  PRIOR FILING DATE: 1999-10-05
;  PRIOR APPLICATION NUMBER: 60/160,191
;  PRIOR FILING DATE: 1999-10-19
;  PRIOR APPLICATION NUMBER: 60/161,932
;  PRIOR FILING DATE: 1999-10-28
;  PRIOR APPLICATION NUMBER: 60/164,769
;  PRIOR FILING DATE: 1999-11-12
;  PRIOR APPLICATION NUMBER: 60/173,383
;  PRIOR FILING DATE: 1999-12-28
;  PRIOR APPLICATION NUMBER: 60/175,693
;  PRIOR FILING DATE: 2000-01-12
;  PRIOR APPLICATION NUMBER: 60/184,831
;  PRIOR FILING DATE: 2000-02-24
;  PRIOR APPLICATION NUMBER: 60/191,637
;  PRIOR FILING DATE: 2000-03-23
;  NUMBER OF SEQ ID NOS: 43008
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 23805
;   LENGTH: 80
;   TYPE: PRT
;   ORGANISM: DROSOPHILA
US-11-097-143-23805

  Query Match             72.0%;  Score 36;  DB 6;  Length 80;
  Best Local Similarity   75.0%;  Pred. No. 4.1e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRT 8
              ||||| :|
Db          8 SCCRSYKT 15


RESULT 45
US-10-437-963-135435
; Sequence 135435, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
```

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;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 135435
;   LENGTH: 100
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_37111C.1.pep
US-10-437-963-135435

  Query Match             72.0%;  Score 36;  DB 4;  Length 100;
  Best Local Similarity   85.7%;  Pred. No. 4.9e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSR 7
              |||| ||
Db         33 SCCRESR 39


RESULT 46
US-10-425-115-310834
; Sequence 310834, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 310834
;   LENGTH: 101
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_46536C.1.pep
US-10-425-115-310834

  Query Match             72.0%;  Score 36;  DB 4;  Length 101;
  Best Local Similarity   85.7%;  Pred. No. 5e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSR 7
              |||| ||
Db         48 SCCRGSR 54


RESULT 47
US-10-437-963-135875
; Sequence 135875, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 135875
;   LENGTH: 111
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
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RESULT 48
US-10-425-115-294572
; Sequence 294572, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 294572
;   LENGTH: 124
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_31735C.1.pep
US-10-425-115-294572

  Query Match             72.0%;  Score 36;  DB 4;  Length 124;
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RESULT 49
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; Sequence 310833, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
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;   LENGTH: 131
;   TYPE: PRT
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;   FEATURE:
;   NAME/KEY: unsure
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;   OTHER INFORMATION: unsure at all Xaa locations
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Db         48 SCCRGSR 54


RESULT 50
US-10-425-115-186241
; Sequence 186241, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 186241
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;   ORGANISM: Zea mays
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US-10-425-115-186241

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Db         51 SCCRGSR 57


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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:32:07 ; Search time 18.4 Seconds
(without alignments)
22.639 Million cell updates/sec

Title: US-08-170-344-57
Perfect score: 50
Sequence: 1 SCCRSSRTR 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 3 | 50 | 100.0 | 158 | 11 | US-11-206-138-3 | Sequence 3, Appli |
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| 7 | 50 | 100.0 | 248 | 9 | US-10-530-253-7 | Sequence 7, Appli |
| 8 | 50 | 100.0 | 248 | 9 | US-10-530-253-9 | Sequence 9, Appli |
| 9 | 50 | 100.0 | 248 | 9 | US-10-530-253-11 | Sequence 11, Appl |
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| 38 | 34 | 68.0 | 384 | 11 | US-11-188-298-20370 | Sequence 20370, A |
| 39 | 34 | 68.0 | 414 | 11 | US-11-096-568A-22755 | Sequence 22755, A |
| 40 | 33 | 66.0 | 99 | 11 | US-11-159-667-38 | Sequence 38, Appl |
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| 51 | 32 | 64.0 | 93 | 11 | US-11-201-519-35 | Sequence 35, Appl |
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| 74 | 32 | 64.0 | 1355 | 11 | US-11-096-568A-28021 | Sequence 28021, A |
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| 77 | 31 | 62.0 | 58 | 11 | US-11-234-786-547 | Sequence 547, App |
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| 104 | 31 | 62.0 | 314 | 11 | US-11-051-720-1492 | Sequence 1492, Ap |
| 105 | 31 | 62.0 | 337 | 11 | US-11-096-568A-7705 | Sequence 7705, Ap |
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| 125 | 31 | 62.0 | 447 | 11 | US-11-188-298-6626 | Sequence 6626, Ap |
| 126 | 31 | 62.0 | 497 | 11 | US-11-188-298-4942 | Sequence 4942, Ap |
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| 130 | 31 | 62.0 | 517 | 9 | US-10-784-004-718 | Sequence 718, App |
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| 143 | 31 | 62.0 | 542 | 11 | US-11-188-298-6912 | Sequence 6912, Ap |
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| 154 | 31 | 62.0 | 549 | 11 | US-11-188-298-17058 | Sequence 17058, A |
| 155 | 31 | 62.0 | 549 | 11 | US-11-188-298-20321 | Sequence 20321, A |
| 156 | 31 | 62.0 | 549 | 11 | US-11-188-298-22400 | Sequence 22400, A |
| 157 | 31 | 62.0 | 550 | 11 | US-11-096-568A-18775 | Sequence 18775, A |
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| 159 | 31 | 62.0 | 550 | 11 | US-11-188-298-4393 | Sequence 4393, Ap |
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| 165 | 31 | 62.0 | 554 | 11 | US-11-188-298-12454 | Sequence 12454, A |
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| 167 | 31 | 62.0 | 556 | 11 | US-11-188-298-5138 | Sequence 5138, Ap |
| 168 | 31 | 62.0 | 557 | 11 | US-11-188-298-12634 | Sequence 12634, A |
| 169 | 31 | 62.0 | 627 | 11 | US-11-188-298-6685 | Sequence 6685, Ap |
| 170 | 31 | 62.0 | 665 | 11 | US-11-051-720-1497 | Sequence 1497, Ap |
| 171 | 31 | 62.0 | 751 | 11 | US-11-051-720-1499 | Sequence 1499, Ap |
| 172 | 31 | 62.0 | 782 | 11 | US-11-051-720-1496 | Sequence 1496, Ap |
| 173 | 31 | 62.0 | 784 | 11 | US-11-051-720-1498 | Sequence 1498, Ap |
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| 175 | 31 | 62.0 | 830 | 9 | US-10-055-877-32 | Sequence 32, Appl |
| 176 | 31 | 62.0 | 868 | 11 | US-11-051-720-1494 | Sequence 1494, Ap |
| 177 | 31 | 62.0 | 901 | 11 | US-11-051-720-1495 | Sequence 1495, Ap |
| 178 | 31 | 62.0 | 989 | 11 | US-11-096-568A-29282 | Sequence 29282, A |
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| 180 | 31 | 62.0 | 1063 | 11 | US-11-096-568A-29281 | Sequence 29281, A |
| 181 | 31 | 62.0 | 1072 | 11 | US-11-096-568A-27848 | Sequence 27848, A |
| 182 | 31 | 62.0 | 1166 | 11 | US-11-096-568A-30808 | Sequence 30808, A |
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| 184 | 31 | 62.0 | 1181 | 11 | US-11-096-568A-27847 | Sequence 27847, A |
| 185 | 31 | 62.0 | 1184 | 11 | US-11-096-568A-29280 | Sequence 29280, A |
| 186 | 31 | 62.0 | 1187 | 11 | US-11-043-889-46 | Sequence 46, Appl |
| 187 | 31 | 62.0 | 1189 | 11 | US-11-096-568A-27846 | Sequence 27846, A |
| 188 | 31 | 62.0 | 1380 | 11 | US-11-079-463-6036 | Sequence 6036, Ap |
| 189 | 31 | 62.0 | 1515 | 11 | US-11-124-367A-402 | Sequence 402, App |
| 190 | 31 | 62.0 | 1516 | 11 | US-11-124-367A-401 | Sequence 401, App |
| 191 | 31 | 62.0 | 1518 | 11 | US-11-124-367A-406 | Sequence 406, App |
| 192 | 31 | 62.0 | 1532 | 11 | US-11-124-367A-403 | Sequence 403, App |
| 193 | 31 | 62.0 | 1532 | 11 | US-11-124-367A-404 | Sequence 404, App |
| 194 | 31 | 62.0 | 1532 | 11 | US-11-124-367A-405 | Sequence 405, App |
| 195 | 31 | 62.0 | 1532 | 11 | US-11-124-367A-407 | Sequence 407, App |
| 196 | 31 | 62.0 | 1535 | 11 | US-11-124-367A-408 | Sequence 408, App |
| 197 | 31 | 62.0 | 2764 | 9 | US-10-995-561-691 | Sequence 691, App |
| 198 | 31 | 62.0 | 2813 | 9 | US-10-995-561-688 | Sequence 688, App |
| 199 | 31 | 62.0 | 2919 | 9 | US-10-821-234-1133 | Sequence 1133, Ap |
| 200 | 31 | 62.0 | 5179 | 11 | US-11-108-172-1068 | Sequence 1068, Ap |
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| 202 | 30 | 60.0 | 13 | 11 | US-11-129-741-1041 | Sequence 1041, Ap |
| 203 | 30 | 60.0 | 13 | 11 | US-11-129-741-4037 | Sequence 4037, Ap |
| 204 | 30 | 60.0 | 45 | 11 | US-11-224-807-22 | Sequence 22, Appl |
| 205 | 30 | 60.0 | 103 | 11 | US-11-004-399-367 | Sequence 367, App |
| 206 | 30 | 60.0 | 103 | 11 | US-11-004-399-698 | Sequence 698, App |
| 207 | 30 | 60.0 | 103 | 11 | US-11-004-399-3728 | Sequence 3728, Ap |
| 208 | 30 | 60.0 | 113 | 11 | US-11-087-099-1237 | Sequence 1237, Ap |
| 209 | 30 | 60.0 | 123 | 11 | US-11-096-568A-1061 | Sequence 1061, Ap |
| 210 | 30 | 60.0 | 123 | 11 | US-11-096-568A-26748 | Sequence 26748, A |
| 211 | 30 | 60.0 | 126 | 11 | US-11-113-424-184 | Sequence 184, App |
| 212 | 30 | 60.0 | 150 | 11 | US-11-096-568A-1060 | Sequence 1060, Ap |
| 213 | 30 | 60.0 | 150 | 11 | US-11-096-568A-26747 | Sequence 26747, A |
| 214 | 30 | 60.0 | 155 | 11 | US-11-096-568A-18557 | Sequence 18557, A |
| 215 | 30 | 60.0 | 186 | 11 | US-11-096-568A-4602 | Sequence 4602, Ap |
| 216 | 30 | 60.0 | 201 | 11 | US-11-096-568A-4601 | Sequence 4601, Ap |
| 217 | 30 | 60.0 | 209 | 7 | US-09-978-360A-453 | Sequence 453, App |
| 218 | 30 | 60.0 | 269 | 9 | US-10-972-587-16 | Sequence 16, Appl |
| 219 | 30 | 60.0 | 270 | 9 | US-10-972-587-14 | Sequence 14, Appl |
| 220 | 30 | 60.0 | 276 | 9 | US-10-972-587-10 | Sequence 10, Appl |
| 221 | 30 | 60.0 | 281 | 11 | US-11-087-099-6447 | Sequence 6447, Ap |
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| 225 | 30 | 60.0 | 319 | 11 | US-11-087-099-677 | Sequence 677, App |
| 226 | 30 | 60.0 | 346 | 11 | US-11-096-568A-16447 | Sequence 16447, A |
| 227 | 30 | 60.0 | 353 | 11 | US-11-096-568A-16446 | Sequence 16446, A |
| 228 | 30 | 60.0 | 370 | 11 | US-11-087-099-5031 | Sequence 5031, Ap |
| 229 | 30 | 60.0 | 384 | 11 | US-11-139-041-326 | Sequence 326, App |
| 230 | 30 | 60.0 | 384 | 11 | US-11-139-041-332 | Sequence 332, App |
| 231 | 30 | 60.0 | 384 | 11 | US-11-139-041-333 | Sequence 333, App |
| 232 | 30 | 60.0 | 391 | 11 | US-11-072-512-3877 | Sequence 3877, Ap |
| 233 | 30 | 60.0 | 397 | 11 | US-11-087-099-9323 | Sequence 9323, Ap |
| 234 | 30 | 60.0 | 407 | 11 | US-11-079-463-10130 | Sequence 10130, A |
| 235 | 30 | 60.0 | 413 | 11 | US-11-096-568A-20771 | Sequence 20771, A |
| 236 | 30 | 60.0 | 435 | 11 | US-11-087-099-11623 | Sequence 11623, A |
| 237 | 30 | 60.0 | 450 | 11 | US-11-079-463-6758 | Sequence 6758, Ap |
| 238 | 30 | 60.0 | 452 | 11 | US-11-096-568A-28121 | Sequence 28121, A |
| 239 | 30 | 60.0 | 457 | 9 | US-10-063-703-12 | Sequence 12, Appl |
| 240 | 30 | 60.0 | 457 | 9 | US-10-194-487-48 | Sequence 48, Appl |

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| 241 | 30 | 60.0 | 457 | 9 | US-10-195-883-48 | Sequence 48, Appl |
| 242 | 30 | 60.0 | 457 | 9 | US-10-195-888-48 | Sequence 48, Appl |
| 243 | 30 | 60.0 | 457 | 9 | US-10-195-889-48 | Sequence 48, Appl |
| 244 | 30 | 60.0 | 457 | 9 | US-10-216-161A-19 | Sequence 19, Appl |
| 245 | 30 | 60.0 | 457 | 11 | US-11-102-240-12 | Sequence 12, Appl |
| 246 | 30 | 60.0 | 457 | 11 | US-11-103-195-12 | Sequence 12, Appl |
| 247 | 30 | 60.0 | 473 | 11 | US-11-087-099-9537 | Sequence 9537, Ap |
| 248 | 30 | 60.0 | 520 | 11 | US-11-096-568A-28120 | Sequence 28120, A |
| 249 | 30 | 60.0 | 591 | 11 | US-11-018-868-136 | Sequence 136, App |
| 250 | 30 | 60.0 | 811 | 11 | US-11-188-298-2220 | Sequence 2220, Ap |
| 251 | 30 | 60.0 | 953 | 11 | US-11-037-243-66 | Sequence 66, Appl |
| 252 | 30 | 60.0 | 1161 | 9 | US-10-511-538-99 | Sequence 99, Appl |
| 253 | 29 | 58.0 | 27 | 11 | US-11-121-044A-92 | Sequence 92, Appl |
| 254 | 29 | 58.0 | 29 | 11 | US-11-144-947-589 | Sequence 589, App |
| 255 | 29 | 58.0 | 105 | 9 | US-10-793-626-922 | Sequence 922, App |
| 256 | 29 | 58.0 | 105 | 9 | US-10-793-626-1028 | Sequence 1028, Ap |
| 257 | 29 | 58.0 | 109 | 9 | US-10-530-253-31 | Sequence 31, Appl |
| 258 | 29 | 58.0 | 118 | 9 | US-10-982-145-121 | Sequence 121, App |
| 259 | 29 | 58.0 | 120 | 9 | US-10-467-657-7726 | Sequence 7726, Ap |
| 260 | 29 | 58.0 | 128 | 11 | US-11-188-298-6245 | Sequence 6245, Ap |
| 261 | 29 | 58.0 | 128 | 11 | US-11-188-298-10467 | Sequence 10467, A |
| 262 | 29 | 58.0 | 140 | 9 | US-10-982-145-65 | Sequence 65, Appl |
| 263 | 29 | 58.0 | 140 | 9 | US-10-982-145-66 | Sequence 66, Appl |
| 264 | 29 | 58.0 | 140 | 9 | US-10-982-145-69 | Sequence 69, Appl |
| 265 | 29 | 58.0 | 141 | 9 | US-10-982-145-67 | Sequence 67, Appl |
| 266 | 29 | 58.0 | 141 | 9 | US-10-982-145-68 | Sequence 68, Appl |
| 267 | 29 | 58.0 | 141 | 9 | US-10-982-145-70 | Sequence 70, Appl |
| 268 | 29 | 58.0 | 141 | 9 | US-10-982-145-71 | Sequence 71, Appl |
| 269 | 29 | 58.0 | 141 | 9 | US-10-982-145-123 | Sequence 123, App |
| 270 | 29 | 58.0 | 141 | 9 | US-10-982-145-125 | Sequence 125, App |
| 271 | 29 | 58.0 | 175 | 11 | US-11-096-568A-25592 | Sequence 25592, A |
| 272 | 29 | 58.0 | 189 | 11 | US-11-096-568A-13880 | Sequence 13880, A |
| 273 | 29 | 58.0 | 202 | 11 | US-11-096-568A-11688 | Sequence 11688, A |
| 274 | 29 | 58.0 | 207 | 11 | US-11-203-251A-96 | Sequence 96, Appl |
| 275 | 29 | 58.0 | 212 | 11 | US-11-096-568A-19889 | Sequence 19889, A |
| 276 | 29 | 58.0 | 216 | 11 | US-11-188-298-5091 | Sequence 5091, Ap |
| 277 | 29 | 58.0 | 217 | 11 | US-11-188-298-7160 | Sequence 7160, Ap |
| 278 | 29 | 58.0 | 217 | 11 | US-11-188-298-16774 | Sequence 16774, A |
| 279 | 29 | 58.0 | 217 | 11 | US-11-188-298-16922 | Sequence 16922, A |
| 280 | 29 | 58.0 | 219 | 11 | US-11-188-298-580 | Sequence 580, App |
| 281 | 29 | 58.0 | 220 | 11 | US-11-096-568A-13879 | Sequence 13879, A |
| 282 | 29 | 58.0 | 222 | 11 | US-11-087-099-8091 | Sequence 8091, Ap |
| 283 | 29 | 58.0 | 222 | 11 | US-11-096-568A-19362 | Sequence 19362, A |
| 284 | 29 | 58.0 | 223 | 11 | US-11-096-568A-25983 | Sequence 25983, A |
| 285 | 29 | 58.0 | 244 | 11 | US-11-096-568A-6842 | Sequence 6842, Ap |
| 286 | 29 | 58.0 | 246 | 11 | US-11-087-099-3258 | Sequence 3258, Ap |
| 287 | 29 | 58.0 | 256 | 11 | US-11-072-512-3255 | Sequence 3255, Ap |
| 288 | 29 | 58.0 | 257 | 11 | US-11-188-298-17959 | Sequence 17959, A |
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| 290 | 29 | 58.0 | 261 | 11 | US-11-045-004-833 | Sequence 833, App |
| 291 | 29 | 58.0 | 281 | 11 | US-11-096-568A-25685 | Sequence 25685, A |
| 292 | 29 | 58.0 | 281 | 11 | US-11-079-463-6267 | Sequence 6267, Ap |
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| 295 | 29 | 58.0 | 312 | 11 | US-11-096-568A-12515 | Sequence 12515, A |
| 296 | 29 | 58.0 | 319 | 11 | US-11-096-568A-24535 | Sequence 24535, A |
| 297 | 29 | 58.0 | 334 | 11 | US-11-096-568A-25684 | Sequence 25684, A |
| 298 | 29 | 58.0 | 360 | 11 | US-11-096-568A-32617 | Sequence 32617, A |
| 299 | 29 | 58.0 | 372 | 11 | US-11-096-568A-25730 | Sequence 25730, A |
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| 306 | 29 | 58.0 | 473 | 9 | US-10-131-826A-382 | Sequence 382, App |
| 307 | 29 | 58.0 | 473 | 9 | US-10-973-115B-382 | Sequence 382, App |
| 308 | 29 | 58.0 | 473 | 9 | US-10-218-784-128 | Sequence 128, App |
| 309 | 29 | 58.0 | 473 | 9 | US-10-219-061-128 | Sequence 128, App |
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| 311 | 29 | 58.0 | 473 | 9 | US-10-219-064-128 | Sequence 128, App |
| 312 | 29 | 58.0 | 473 | 9 | US-10-233-134-128 | Sequence 128, App |
| 313 | 29 | 58.0 | 473 | 9 | US-10-216-161A-400 | Sequence 400, App |
| 314 | 29 | 58.0 | 473 | 9 | US-10-137-873A-382 | Sequence 382, App |
| 315 | 29 | 58.0 | 473 | 9 | US-10-152-370-382 | Sequence 382, App |
| 316 | 29 | 58.0 | 473 | 11 | US-11-290-153-382 | Sequence 382, App |
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| 318 | 29 | 58.0 | 522 | 11 | US-11-188-298-13552 | Sequence 13552, A |
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| 323 | 29 | 58.0 | 780 | 8 | US-10-505-928-102 | Sequence 102, App |
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| 326 | 29 | 58.0 | 1401 | 11 | US-11-188-298-13416 | Sequence 13416, A |
| 327 | 29 | 58.0 | 5738 | 8 | US-10-505-928-150 | Sequence 150, App |
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| 329 | 28.5 | 57.0 | 149 | 11 | US-11-096-568A-10774 | Sequence 10774, A |
| 330 | 28 | 56.0 | 8 | 11 | US-11-004-399-200 | Sequence 200, App |
| 331 | 28 | 56.0 | 8 | 11 | US-11-004-399-1336 | Sequence 1336, Ap |
| 332 | 28 | 56.0 | 8 | 11 | US-11-004-399-3531 | Sequence 3531, Ap |
| 333 | 28 | 56.0 | 8 | 11 | US-11-004-399-3825 | Sequence 3825, Ap |
| 334 | 28 | 56.0 | 16 | 9 | US-10-670-009-12 | Sequence 12, Appl |
| 335 | 28 | 56.0 | 16 | 9 | US-10-670-009-13 | Sequence 13, Appl |
| 336 | 28 | 56.0 | 19 | 9 | US-10-485-788A-625 | Sequence 625, App |
| 337 | 28 | 56.0 | 26 | 9 | US-10-895-064-385 | Sequence 385, App |
| 338 | 28 | 56.0 | 26 | 11 | US-11-129-741-385 | Sequence 385, App |
| 339 | 28 | 56.0 | 26 | 11 | US-11-129-741-3315 | Sequence 3315, Ap |
| 340 | 28 | 56.0 | 27 | 11 | US-11-052-168A-20 | Sequence 20, Appl |
| 341 | 28 | 56.0 | 27 | 11 | US-11-052-168A-25 | Sequence 25, Appl |
| 342 | 28 | 56.0 | 45 | 11 | US-11-004-399-886 | Sequence 886, App |
| 343 | 28 | 56.0 | 46 | 11 | US-11-068-783-111 | Sequence 111, App |
| 344 | 28 | 56.0 | 69 | 9 | US-10-784-004-374 | Sequence 374, App |
| 345 | 28 | 56.0 | 76 | 11 | US-11-226-657-68 | Sequence 68, Appl |
| 346 | 28 | 56.0 | 77 | 9 | US-10-821-234-1132 | Sequence 1132, Ap |
| 347 | 28 | 56.0 | 83 | 11 | US-11-004-399-3297 | Sequence 3297, Ap |
| 348 | 28 | 56.0 | 111 | 11 | US-11-221-281-43 | Sequence 43, Appl |
| 349 | 28 | 56.0 | 113 | 9 | US-10-932-334-60 | Sequence 60, Appl |
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| 351 | 28 | 56.0 | 113 | 9 | US-10-746-909-12 | Sequence 12, Appl |
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| 353 | 28 | 56.0 | 113 | 9 | US-10-784-004-1238 | Sequence 1238, Ap |
| 354 | 28 | 56.0 | 119 | 9 | US-10-530-171-7 | Sequence 7, Appli |
| 355 | 28 | 56.0 | 123 | 11 | US-11-096-568A-21430 | Sequence 21430, A |
| 356 | 28 | 56.0 | 127 | 11 | US-11-096-568A-22947 | Sequence 22947, A |
| 357 | 28 | 56.0 | 135 | 11 | US-11-175-690-342 | Sequence 342, App |
| 358 | 28 | 56.0 | 135 | 11 | US-11-175-690-343 | Sequence 343, App |
| 359 | 28 | 56.0 | 135 | 11 | US-11-072-512-2606 | Sequence 2606, Ap |
| 360 | 28 | 56.0 | 139 | 11 | US-11-096-568A-4119 | Sequence 4119, Ap |
| 361 | 28 | 56.0 | 145 | 11 | US-11-152-601-43 | Sequence 43, Appl |
| 362 | 28 | 56.0 | 156 | 11 | US-11-087-099-9888 | Sequence 9888, Ap |
| 363 | 28 | 56.0 | 160 | 9 | US-10-530-253-25 | Sequence 25, Appl |
| 364 | 28 | 56.0 | 181 | 11 | US-11-175-690-344 | Sequence 344, App |
| 365 | 28 | 56.0 | 181 | 11 | US-11-175-690-345 | Sequence 345, App |
| 366 | 28 | 56.0 | 181 | 11 | US-11-175-690-346 | Sequence 346, App |
| 367 | 28 | 56.0 | 181 | 11 | US-11-175-690-347 | Sequence 347, App |
| 368 | 28 | 56.0 | 181 | 11 | US-11-175-690-348 | Sequence 348, App |
| 369 | 28 | 56.0 | 181 | 11 | US-11-175-690-349 | Sequence 349, App |
| 370 | 28 | 56.0 | 183 | 11 | US-11-264-096-2225 | Sequence 2225, Ap |
| 371 | 28 | 56.0 | 184 | 11 | US-11-084-591-5 | Sequence 5, Appli |
| 372 | 28 | 56.0 | 184 | 11 | US-11-264-096-347 | Sequence 347, App |
| 373 | 28 | 56.0 | 184 | 11 | US-11-264-096-2250 | Sequence 2250, Ap |
| 374 | 28 | 56.0 | 189 | 11 | US-11-096-568A-31624 | Sequence 31624, A |
| 375 | 28 | 56.0 | 191 | 11 | US-11-096-568A-18895 | Sequence 18895, A |
| 376 | 28 | 56.0 | 193 | 11 | US-11-096-568A-18894 | Sequence 18894, A |
| 377 | 28 | 56.0 | 193 | 11 | US-11-096-568A-26463 | Sequence 26463, A |
| 378 | 28 | 56.0 | 195 | 11 | US-11-096-568A-18893 | Sequence 18893, A |
| 379 | 28 | 56.0 | 201 | 7 | US-09-810-501-21 | Sequence 21, Appl |
| 380 | 28 | 56.0 | 201 | 11 | US-11-167-831-39 | Sequence 39, Appl |
| 381 | 28 | 56.0 | 203 | 9 | US-10-506-454-801 | Sequence 801, App |
| 382 | 28 | 56.0 | 216 | 11 | US-11-096-568A-26562 | Sequence 26562, A |
| 383 | 28 | 56.0 | 227 | 11 | US-11-096-568A-4118 | Sequence 4118, Ap |
| 384 | 28 | 56.0 | 236 | 9 | US-10-467-657-676 | Sequence 676, App |
| 385 | 28 | 56.0 | 236 | 11 | US-11-096-568A-4117 | Sequence 4117, Ap |
| 386 | 28 | 56.0 | 238 | 11 | US-11-096-568A-4156 | Sequence 4156, Ap |

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| 387 | 28 | 56.0 | 251 | 11 | US-11-096-568A-32939 | Sequence 32939, A |
| 388 | 28 | 56.0 | 253 | 9 | US-10-501-035-248 | Sequence 248, App |
| 389 | 28 | 56.0 | 254 | 11 | US-11-096-568A-32938 | Sequence 32938, A |
| 390 | 28 | 56.0 | 261 | 11 | US-11-096-568A-21393 | Sequence 21393, A |
| 391 | 28 | 56.0 | 266 | 11 | US-11-072-512-3891 | Sequence 3891, Ap |
| 392 | 28 | 56.0 | 266 | 11 | US-11-096-568A-31623 | Sequence 31623, A |
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| 394 | 28 | 56.0 | 271 | 11 | US-11-096-568A-26561 | Sequence 26561, A |
| 395 | 28 | 56.0 | 272 | 11 | US-11-096-568A-28821 | Sequence 28821, A |
| 396 | 28 | 56.0 | 272 | 11 | US-11-096-568A-32937 | Sequence 32937, A |
| 397 | 28 | 56.0 | 274 | 11 | US-11-096-568A-28820 | Sequence 28820, A |
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| 399 | 28 | 56.0 | 281 | 9 | US-10-883-512-90 | Sequence 90, Appl |
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| 401 | 28 | 56.0 | 281 | 11 | US-11-172-740-2000 | Sequence 2000, Ap |
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| 404 | 28 | 56.0 | 301 | 11 | US-11-147-047-37 | Sequence 37, Appl |
| 405 | 28 | 56.0 | 304 | 11 | US-11-188-298-884 | Sequence 884, App |
| 406 | 28 | 56.0 | 312 | 11 | US-11-096-568A-7692 | Sequence 7692, Ap |
| 407 | 28 | 56.0 | 316 | 11 | US-11-152-811-4 | Sequence 4, Appli |
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| 409 | 28 | 56.0 | 320 | 11 | US-11-096-568A-23622 | Sequence 23622, A |
| 410 | 28 | 56.0 | 322 | 11 | US-11-087-099-5170 | Sequence 5170, Ap |
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| 413 | 28 | 56.0 | 327 | 11 | US-11-087-099-12170 | Sequence 12170, A |
| 414 | 28 | 56.0 | 332 | 11 | US-11-105-268-59 | Sequence 59, Appl |
| 415 | 28 | 56.0 | 335 | 11 | US-11-188-298-21671 | Sequence 21671, A |
| 416 | 28 | 56.0 | 342 | 11 | US-11-087-099-3637 | Sequence 3637, Ap |
| 417 | 28 | 56.0 | 345 | 11 | US-11-096-568A-26560 | Sequence 26560, A |
| 418 | 28 | 56.0 | 347 | 11 | US-11-096-568A-22307 | Sequence 22307, A |
| 419 | 28 | 56.0 | 348 | 11 | US-11-024-959-479 | Sequence 479, App |
| 420 | 28 | 56.0 | 352 | 9 | US-10-218-784-216 | Sequence 216, App |
| 421 | 28 | 56.0 | 352 | 9 | US-10-219-061-216 | Sequence 216, App |
| 422 | 28 | 56.0 | 352 | 9 | US-10-219-062-216 | Sequence 216, App |
| 423 | 28 | 56.0 | 352 | 9 | US-10-219-064-216 | Sequence 216, App |
| 424 | 28 | 56.0 | 352 | 9 | US-10-233-134-216 | Sequence 216, App |
| 425 | 28 | 56.0 | 357 | 11 | US-11-087-099-7624 | Sequence 7624, Ap |
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| 428 | 28 | 56.0 | 365 | 8 | US-10-505-928-148 | Sequence 148, App |
| 429 | 28 | 56.0 | 365 | 11 | US-11-102-978-9 | Sequence 9, Appli |
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| 448 | 28 | 56.0 | 432 | 11 | US-11-096-568A-17031 | Sequence 17031, A |
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| 451 | 28 | 56.0 | 447 | 11 | US-11-087-099-8120 | Sequence 8120, Ap |
| 452 | 28 | 56.0 | 465 | 11 | US-11-096-568A-9893 | Sequence 9893, Ap |
| 453 | 28 | 56.0 | 467 | 11 | US-11-087-099-4884 | Sequence 4884, Ap |
| 454 | 28 | 56.0 | 478 | 11 | US-11-079-463-8686 | Sequence 8686, Ap |
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| 457 | 28 | 56.0 | 499 | 11 | US-11-188-298-4559 | Sequence 4559, Ap |
| 458 | 28 | 56.0 | 516 | 11 | US-11-072-512-2033 | Sequence 2033, Ap |
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| 461 | 28 | 56.0 | 590 | 10 | US-11-106-014-52 | Sequence 52, Appl |
| 462 | 28 | 56.0 | 590 | 11 | US-11-073-457-52 | Sequence 52, Appl |
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| 475 | 28 | 56.0 | 750 | 11 | US-11-072-512-2432 | Sequence 2432, Ap |
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| 477 | 28 | 56.0 | 790 | 11 | US-11-175-690-258 | Sequence 258, App |
| 478 | 28 | 56.0 | 790 | 11 | US-11-175-690-259 | Sequence 259, App |
| 479 | 28 | 56.0 | 790 | 11 | US-11-175-690-260 | Sequence 260, App |
| 480 | 28 | 56.0 | 790 | 11 | US-11-175-690-261 | Sequence 261, App |
| 481 | 28 | 56.0 | 790 | 11 | US-11-175-690-262 | Sequence 262, App |
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| 483 | 28 | 56.0 | 985 | 9 | US-10-532-482-60 | Sequence 60, Appl |
| 484 | 28 | 56.0 | 993 | 9 | US-10-532-482-51 | Sequence 51, Appl |
| 485 | 28 | 56.0 | 997 | 9 | US-10-532-482-58 | Sequence 58, Appl |
| 486 | 28 | 56.0 | 1004 | 9 | US-10-532-482-59 | Sequence 59, Appl |
| 487 | 28 | 56.0 | 1005 | 9 | US-10-532-482-54 | Sequence 54, Appl |
| 488 | 28 | 56.0 | 1006 | 9 | US-10-532-482-53 | Sequence 53, Appl |
| 489 | 28 | 56.0 | 1009 | 9 | US-10-532-482-31 | Sequence 31, Appl |
| 490 | 28 | 56.0 | 1013 | 9 | US-10-532-482-32 | Sequence 32, Appl |
| 491 | 28 | 56.0 | 1016 | 9 | US-10-532-482-50 | Sequence 50, Appl |
| 492 | 28 | 56.0 | 1016 | 9 | US-10-532-482-57 | Sequence 57, Appl |
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| 499 | 28 | 56.0 | 1508 | 11 | US-11-043-889-47 | Sequence 47, Appl |
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| 528 | 27 | 54.0 | 33 | 11 | US-11-139-041-426 | Sequence 426, App |
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| 557 | 27 | 54.0 | 105 | 9 | US-10-467-657-7368 | Sequence 7368, Ap |
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| 694 | 27 | 54.0 | 361 | 11 | US-11-188-298-5620 | Sequence 5620, Ap |
| 695 | 27 | 54.0 | 361 | 11 | US-11-188-298-6695 | Sequence 6695, Ap |
| 696 | 27 | 54.0 | 361 | 11 | US-11-188-298-13781 | Sequence 13781, A |
| 697 | 27 | 54.0 | 361 | 11 | US-11-188-298-14795 | Sequence 14795, A |
| 698 | 27 | 54.0 | 361 | 11 | US-11-188-298-21695 | Sequence 21695, A |
| 699 | 27 | 54.0 | 363 | 11 | US-11-156-084-199 | Sequence 199, App |
| 700 | 27 | 54.0 | 363 | 11 | US-11-156-084-347 | Sequence 347, App |
| 701 | 27 | 54.0 | 364 | 11 | US-11-096-568A-32474 | Sequence 32474, A |
| 702 | 27 | 54.0 | 366 | 9 | US-10-510-386-42 | Sequence 42, Appl |
| 703 | 27 | 54.0 | 366 | 11 | US-11-087-099-7455 | Sequence 7455, Ap |
| 704 | 27 | 54.0 | 366 | 11 | US-11-096-568A-26101 | Sequence 26101, A |
| 705 | 27 | 54.0 | 368 | 11 | US-11-210-960-7 | Sequence 7, Appli |
| 706 | 27 | 54.0 | 376 | 11 | US-11-188-298-1836 | Sequence 1836, Ap |
| 707 | 27 | 54.0 | 380 | 10 | US-11-252-080-10 | Sequence 10, Appl |
| 708 | 27 | 54.0 | 384 | 10 | US-11-301-554-1876 | Sequence 1876, Ap |
| 709 | 27 | 54.0 | 384 | 11 | US-11-087-099-2073 | Sequence 2073, Ap |
| 710 | 27 | 54.0 | 384 | 11 | US-11-139-041-304 | Sequence 304, App |
| 711 | 27 | 54.0 | 384 | 11 | US-11-139-041-334 | Sequence 334, App |
| 712 | 27 | 54.0 | 384 | 11 | US-11-139-041-340 | Sequence 340, App |
| 713 | 27 | 54.0 | 392 | 11 | US-11-087-099-11929 | Sequence 11929, A |
| 714 | 27 | 54.0 | 394 | 11 | US-11-139-041-336 | Sequence 336, App |
| 715 | 27 | 54.0 | 399 | 8 | US-10-322-836-36 | Sequence 36, Appl |
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| 717 | 27 | 54.0 | 407 | 9 | US-10-821-234-1389 | Sequence 1389, Ap |
| 718 | 27 | 54.0 | 407 | 11 | US-11-072-512-3074 | Sequence 3074, Ap |
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| 720 | 27 | 54.0 | 417 | 7 | US-09-978-360A-420 | Sequence 420, App |
| 721 | 27 | 54.0 | 428 | 11 | US-11-087-099-4453 | Sequence 4453, Ap |
| 722 | 27 | 54.0 | 438 | 8 | US-10-322-836-42 | Sequence 42, Appl |
| 723 | 27 | 54.0 | 442 | 11 | US-11-096-568A-20622 | Sequence 20622, A |
| 724 | 27 | 54.0 | 464 | 9 | US-10-689-742-164 | Sequence 164, App |
| 725 | 27 | 54.0 | 470 | 11 | US-11-188-298-20238 | Sequence 20238, A |
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| 727 | 27 | 54.0 | 484 | 8 | US-10-322-836-40 | Sequence 40, Appl |
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| 729 | 27 | 54.0 | 494 | 11 | US-11-188-298-20434 | Sequence 20434, A |
| 730 | 27 | 54.0 | 495 | 11 | US-11-099-687-34 | Sequence 34, Appl |
| 731 | 27 | 54.0 | 495 | 11 | US-11-188-298-6184 | Sequence 6184, Ap |
| 732 | 27 | 54.0 | 500 | 9 | US-10-957-569-18 | Sequence 18, Appl |
| 733 | 27 | 54.0 | 500 | 11 | US-11-097-589-16 | Sequence 16, Appl |
| 734 | 27 | 54.0 | 527 | 11 | US-11-188-298-17484 | Sequence 17484, A |
| 735 | 27 | 54.0 | 529 | 11 | US-11-139-041-324 | Sequence 324, App |
| 736 | 27 | 54.0 | 532 | 8 | US-10-322-836-26 | Sequence 26, Appl |
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| 738 | 27 | 54.0 | 545 | 11 | US-11-096-568A-31710 | Sequence 31710, A |
| 739 | 27 | 54.0 | 546 | 11 | US-11-051-720-1582 | Sequence 1582, Ap |
| 740 | 27 | 54.0 | 547 | 8 | US-10-322-836-4 | Sequence 4, Appli |
| 741 | 27 | 54.0 | 550 | 11 | US-11-188-298-4571 | Sequence 4571, Ap |
| 742 | 27 | 54.0 | 550 | 11 | US-11-188-298-20020 | Sequence 20020, A |
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| 744 | 27 | 54.0 | 567 | 9 | US-10-718-264-6 | Sequence 6, Appli |
| 745 | 27 | 54.0 | 567 | 11 | US-11-176-667-6 | Sequence 6, Appli |
| 746 | 27 | 54.0 | 574 | 11 | US-11-024-959-408 | Sequence 408, App |
| 747 | 27 | 54.0 | 578 | 8 | US-10-322-836-24 | Sequence 24, Appl |
| 748 | 27 | 54.0 | 580 | 11 | US-11-087-099-5339 | Sequence 5339, Ap |
| 749 | 27 | 54.0 | 580 | 11 | US-11-188-298-4878 | Sequence 4878, Ap |
| 750 | 27 | 54.0 | 585 | 9 | US-10-455-772-928 | Sequence 928, App |
| 751 | 27 | 54.0 | 593 | 8 | US-10-322-836-2 | Sequence 2, Appli |
| 752 | 27 | 54.0 | 596 | 9 | US-10-455-772-930 | Sequence 930, App |
| 753 | 27 | 54.0 | 597 | 9 | US-10-055-877-303 | Sequence 303, App |
| 754 | 27 | 54.0 | 598 | 9 | US-10-455-772-926 | Sequence 926, App |
| 755 | 27 | 54.0 | 600 | 9 | US-10-055-877-103 | Sequence 103, App |
| 756 | 27 | 54.0 | 603 | 11 | US-11-096-568A-31709 | Sequence 31709, A |
| 757 | 27 | 54.0 | 608 | 11 | US-11-072-512-3337 | Sequence 3337, Ap |
| 758 | 27 | 54.0 | 612 | 9 | US-10-455-772-932 | Sequence 932, App |
| 759 | 27 | 54.0 | 614 | 11 | US-11-110-748-2 | Sequence 2, Appli |
| 760 | 27 | 54.0 | 614 | 11 | US-11-188-298-18381 | Sequence 18381, A |
| 761 | 27 | 54.0 | 629 | 9 | US-10-467-657-250 | Sequence 250, App |
| 762 | 27 | 54.0 | 629 | 9 | US-10-467-657-3084 | Sequence 3084, Ap |
| 763 | 27 | 54.0 | 654 | 11 | US-11-169-041-186 | Sequence 186, App |
| 764 | 27 | 54.0 | 656 | 11 | US-11-234-786-379 | Sequence 379, App |
| 765 | 27 | 54.0 | 656 | 11 | US-11-139-041-305 | Sequence 305, App |
| 766 | 27 | 54.0 | 665 | 11 | US-11-096-568A-31708 | Sequence 31708, A |
| 767 | 27 | 54.0 | 667 | 11 | US-11-188-298-4006 | Sequence 4006, Ap |
| 768 | 27 | 54.0 | 671 | 11 | US-11-234-786-380 | Sequence 380, App |
| 769 | 27 | 54.0 | 671 | 11 | US-11-139-041-306 | Sequence 306, App |
| 770 | 27 | 54.0 | 678 | 8 | US-10-322-836-46 | Sequence 46, Appl |
| 771 | 27 | 54.0 | 693 | 8 | US-10-322-836-34 | Sequence 34, Appl |
| 772 | 27 | 54.0 | 696 | 11 | US-11-188-298-20527 | Sequence 20527, A |
| 773 | 27 | 54.0 | 707 | 9 | US-10-453-372-998 | Sequence 998, App |
| 774 | 27 | 54.0 | 712 | 9 | US-10-453-372-1000 | Sequence 1000, Ap |
| 775 | 27 | 54.0 | 724 | 8 | US-10-322-836-44 | Sequence 44, Appl |
| 776 | 27 | 54.0 | 739 | 8 | US-10-322-836-32 | Sequence 32, Appl |
| 777 | 27 | 54.0 | 744 | 11 | US-11-264-096-717 | Sequence 717, App |
| 778 | 27 | 54.0 | 770 | 11 | US-11-024-959-358 | Sequence 358, App |
| 779 | 27 | 54.0 | 853 | 7 | US-09-720-086-8 | Sequence 8, Appli |
| 780 | 27 | 54.0 | 859 | 7 | US-09-720-086-6 | Sequence 6, Appli |
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| 782 | 27 | 54.0 | 859 | 11 | US-11-007-428-5 | Sequence 5, Appli |
| 783 | 27 | 54.0 | 859 | 11 | US-11-183-294-14 | Sequence 14, Appl |
| 784 | 27 | 54.0 | 859 | 11 | US-11-235-037-7 | Sequence 7, Appli |
| 785 | 27 | 54.0 | 879 | 11 | US-11-098-686-10290 | Sequence 10290, A |
| 786 | 27 | 54.0 | 912 | 9 | US-10-501-035-372 | Sequence 372, App |
| 787 | 27 | 54.0 | 928 | 11 | US-11-129-741-2921 | Sequence 2921, Ap |
| 788 | 27 | 54.0 | 928 | 11 | US-11-129-741-2923 | Sequence 2923, Ap |
| 789 | 27 | 54.0 | 928 | 11 | US-11-129-741-2925 | Sequence 2925, Ap |
| 790 | 27 | 54.0 | 928 | 11 | US-11-129-741-2927 | Sequence 2927, Ap |
| 791 | 27 | 54.0 | 928 | 11 | US-11-129-741-2929 | Sequence 2929, Ap |
| 792 | 27 | 54.0 | 928 | 11 | US-11-129-741-2931 | Sequence 2931, Ap |
| 793 | 27 | 54.0 | 928 | 11 | US-11-129-741-2933 | Sequence 2933, Ap |
| 794 | 27 | 54.0 | 928 | 11 | US-11-129-741-2935 | Sequence 2935, Ap |
| 795 | 27 | 54.0 | 928 | 11 | US-11-129-741-4243 | Sequence 4243, Ap |
| 796 | 27 | 54.0 | 941 | 11 | US-11-124-367A-313 | Sequence 313, App |
| 797 | 27 | 54.0 | 941 | 11 | US-11-124-367A-315 | Sequence 315, App |
| 798 | 27 | 54.0 | 943 | 9 | US-10-475-204-34 | Sequence 34, Appl |
| 799 | 27 | 54.0 | 963 | 11 | US-11-188-298-4720 | Sequence 4720, Ap |
| 800 | 27 | 54.0 | 1081 | 11 | US-11-142-700-23 | Sequence 23, Appl |
| 801 | 27 | 54.0 | 1104 | 11 | US-11-188-298-17339 | Sequence 17339, A |
| 802 | 27 | 54.0 | 1122 | 11 | US-11-087-099-1261 | Sequence 1261, Ap |
| 803 | 27 | 54.0 | 1122 | 11 | US-11-087-099-3430 | Sequence 3430, Ap |
| 804 | 27 | 54.0 | 1122 | 11 | US-11-087-099-9404 | Sequence 9404, Ap |
| 805 | 27 | 54.0 | 1122 | 11 | US-11-087-099-12448 | Sequence 12448, A |
| 806 | 27 | 54.0 | 1124 | 11 | US-11-087-099-1183 | Sequence 1183, Ap |
| 807 | 27 | 54.0 | 1124 | 11 | US-11-087-099-1938 | Sequence 1938, Ap |
| 808 | 27 | 54.0 | 1124 | 11 | US-11-087-099-2565 | Sequence 2565, Ap |
| 809 | 27 | 54.0 | 1129 | 11 | US-11-087-099-3328 | Sequence 3328, Ap |
| 810 | 27 | 54.0 | 1130 | 11 | US-11-087-099-9957 | Sequence 9957, Ap |
| 811 | 27 | 54.0 | 1131 | 11 | US-11-087-099-3832 | Sequence 3832, Ap |
| 812 | 27 | 54.0 | 1132 | 11 | US-11-087-099-1451 | Sequence 1451, Ap |
| 813 | 27 | 54.0 | 1135 | 11 | US-11-087-099-524 | Sequence 524, App |
| 814 | 27 | 54.0 | 1139 | 11 | US-11-098-686-10206 | Sequence 10206, A |
| 815 | 27 | 54.0 | 1146 | 11 | US-11-087-099-723 | Sequence 723, App |
| 816 | 27 | 54.0 | 1187 | 9 | US-10-821-234-955 | Sequence 955, App |
| 817 | 27 | 54.0 | 1224 | 11 | US-11-096-568A-27547 | Sequence 27547, A |
| 818 | 27 | 54.0 | 1236 | 11 | US-11-096-568A-27546 | Sequence 27546, A |
| 819 | 27 | 54.0 | 1240 | 11 | US-11-096-568A-27545 | Sequence 27545, A |
| 820 | 27 | 54.0 | 1278 | 9 | US-10-995-561-952 | Sequence 952, App |
| 821 | 27 | 54.0 | 1310 | 11 | US-11-096-568A-28552 | Sequence 28552, A |
| 822 | 27 | 54.0 | 1332 | 11 | US-11-242-459-9 | Sequence 9, Appli |
| 823 | 27 | 54.0 | 1368 | 11 | US-11-096-568A-28551 | Sequence 28551, A |
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| 825 | 27 | 54.0 | 1405 | 9 | US-10-995-561-529 | Sequence 529, App |
| 826 | 27 | 54.0 | 1406 | 9 | US-10-995-561-530 | Sequence 530, App |
| 827 | 27 | 54.0 | 1432 | 10 | US-11-301-924-18 | Sequence 18, Appl |
| 828 | 27 | 54.0 | 1436 | 9 | US-10-995-561-531 | Sequence 531, App |
| 829 | 27 | 54.0 | 1454 | 11 | US-11-109-157A-2 | Sequence 2, Appli |
| 830 | 27 | 54.0 | 1523 | 9 | US-10-194-487-290 | Sequence 290, App |
| 831 | 27 | 54.0 | 1523 | 9 | US-10-195-883-290 | Sequence 290, App |
| 832 | 27 | 54.0 | 1523 | 9 | US-10-195-888-290 | Sequence 290, App |
| 833 | 27 | 54.0 | 1523 | 9 | US-10-195-889-290 | Sequence 290, App |
| 834 | 27 | 54.0 | 1686 | 11 | US-11-109-157A-1 | Sequence 1, Appli |
| 835 | 27 | 54.0 | 1686 | 11 | US-11-226-701-2 | Sequence 2, Appli |
| 836 | 27 | 54.0 | 1719 | 11 | US-11-234-786-378 | Sequence 378, App |
| 837 | 27 | 54.0 | 1730 | 11 | US-11-182-016-19 | Sequence 19, Appl |
| 838 | 27 | 54.0 | 1742 | 11 | US-11-182-016-23 | Sequence 23, Appl |
| 839 | 27 | 54.0 | 1902 | 9 | US-10-453-372-1004 | Sequence 1004, Ap |
| 840 | 27 | 54.0 | 2491 | 9 | US-10-995-561-769 | Sequence 769, App |
| 841 | 27 | 54.0 | 2723 | 9 | US-10-895-064-388 | Sequence 388, App |
| 842 | 27 | 54.0 | 2723 | 11 | US-11-129-741-388 | Sequence 388, App |
| 843 | 27 | 54.0 | 2723 | 11 | US-11-129-741-3318 | Sequence 3318, Ap |
| 844 | 27 | 54.0 | 3387 | 9 | US-10-204-252-24 | Sequence 24, Appl |
| 845 | 27 | 54.0 | 3387 | 9 | US-10-204-252-26 | Sequence 26, Appl |
| 846 | 27 | 54.0 | 3389 | 9 | US-10-204-252-10 | Sequence 10, Appl |
| 847 | 27 | 54.0 | 3390 | 9 | US-10-204-252-20 | Sequence 20, Appl |
| 848 | 27 | 54.0 | 3390 | 9 | US-10-204-252-22 | Sequence 22, Appl |
| 849 | 27 | 54.0 | 3391 | 9 | US-10-204-252-6 | Sequence 6, Appli |
| 850 | 27 | 54.0 | 3391 | 9 | US-10-204-252-8 | Sequence 8, Appli |
| 851 | 27 | 54.0 | 3391 | 9 | US-10-204-252-12 | Sequence 12, Appl |
| 852 | 27 | 54.0 | 3391 | 9 | US-10-204-252-14 | Sequence 14, Appl |
| 853 | 27 | 54.0 | 3391 | 9 | US-10-204-252-16 | Sequence 16, Appl |
| 854 | 27 | 54.0 | 3391 | 9 | US-10-204-252-28 | Sequence 28, Appl |
| 855 | 27 | 54.0 | 3392 | 9 | US-10-204-252-2 | Sequence 2, Appli |
| 856 | 27 | 54.0 | 3392 | 9 | US-10-204-252-4 | Sequence 4, Appli |
| 857 | 27 | 54.0 | 3402 | 9 | US-10-204-252-18 | Sequence 18, Appl |
| 858 | 27 | 54.0 | 3433 | 9 | US-10-714-781A-67 | Sequence 67, Appl |
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| 862 | 27 | 54.0 | 3749 | 11 | US-11-132-686-12 | Sequence 12, Appl |
| 863 | 27 | 54.0 | 3912 | 11 | US-11-132-686-7 | Sequence 7, Appli |
| 864 | 27 | 54.0 | 3913 | 11 | US-11-132-686-5 | Sequence 5, Appli |
| 865 | 27 | 54.0 | 3913 | 11 | US-11-132-686-9 | Sequence 9, Appli |
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| 867 | 27 | 54.0 | 4868 | 11 | US-11-044-111-24 | Sequence 24, Appl |
| 868 | 27 | 54.0 | 5636 | 11 | US-11-065-695-20 | Sequence 20, Appl |
| 869 | 26.5 | 53.0 | 311 | 11 | US-11-079-463-5349 | Sequence 5349, Ap |
| 870 | 26.5 | 53.0 | 370 | 11 | US-11-108-528-2 | Sequence 2, Appli |
| 871 | 26.5 | 53.0 | 370 | 11 | US-11-108-528-4 | Sequence 4, Appli |
| 872 | 26 | 52.0 | 8 | 9 | US-10-895-064-2575 | Sequence 2575, Ap |
| 873 | 26 | 52.0 | 8 | 11 | US-11-129-741-2575 | Sequence 2575, Ap |
| 874 | 26 | 52.0 | 10 | 11 | US-11-004-399-1463 | Sequence 1463, Ap |
| 875 | 26 | 52.0 | 11 | 11 | US-11-149-757-9 | Sequence 9, Appli |
| 876 | 26 | 52.0 | 12 | 11 | US-11-149-757-13 | Sequence 13, Appl |
| 877 | 26 | 52.0 | 17 | 9 | US-10-670-009-9 | Sequence 9, Appli |
| 878 | 26 | 52.0 | 26 | 11 | US-11-121-044A-126 | Sequence 126, App |
| 879 | 26 | 52.0 | 27 | 11 | US-11-198-847-147 | Sequence 147, App |
| 880 | 26 | 52.0 | 28 | 11 | US-11-166-412-188 | Sequence 188, App |
| 881 | 26 | 52.0 | 30 | 9 | US-10-973-977-16 | Sequence 16, Appl |
| 882 | 26 | 52.0 | 32 | 11 | US-11-004-399-1623 | Sequence 1623, Ap |
| 883 | 26 | 52.0 | 34 | 9 | US-10-467-657-7310 | Sequence 7310, Ap |
| 884 | 26 | 52.0 | 35 | 9 | US-10-467-657-6962 | Sequence 6962, Ap |
| 885 | 26 | 52.0 | 43 | 11 | US-11-166-412-203 | Sequence 203, App |
| 886 | 26 | 52.0 | 57 | 11 | US-11-096-568A-13777 | Sequence 13777, A |
| 887 | 26 | 52.0 | 59 | 11 | US-11-107-219-7 | Sequence 7, Appli |
| 888 | 26 | 52.0 | 63 | 11 | US-11-264-096-1051 | Sequence 1051, Ap |
| 889 | 26 | 52.0 | 63 | 11 | US-11-264-096-1052 | Sequence 1052, Ap |
| 890 | 26 | 52.0 | 66 | 9 | US-10-297-661-8 | Sequence 8, Appli |
| 891 | 26 | 52.0 | 69 | 11 | US-11-096-568A-20238 | Sequence 20238, A |
| 892 | 26 | 52.0 | 73 | 11 | US-11-000-463-771 | Sequence 771, App |
| 893 | 26 | 52.0 | 74 | 11 | US-11-078-469-19 | Sequence 19, Appl |
| 894 | 26 | 52.0 | 76 | 9 | US-10-982-545-1 | Sequence 1, Appli |
| 895 | 26 | 52.0 | 76 | 11 | US-11-096-568A-13813 | Sequence 13813, A |
| 896 | 26 | 52.0 | 79 | 11 | US-11-096-568A-20237 | Sequence 20237, A |
| 897 | 26 | 52.0 | 84 | 11 | US-11-240-769-60 | Sequence 60, Appl |
| 898 | 26 | 52.0 | 88 | 11 | US-11-031-206-114 | Sequence 114, App |
| 899 | 26 | 52.0 | 92 | 11 | US-11-224-076-3 | Sequence 3, Appli |
| 900 | 26 | 52.0 | 98 | 11 | US-11-144-947-733 | Sequence 733, App |
| 901 | 26 | 52.0 | 101 | 9 | US-10-530-253-33 | Sequence 33, Appl |
| 902 | 26 | 52.0 | 101 | 11 | US-11-188-298-12217 | Sequence 12217, A |
| 903 | 26 | 52.0 | 107 | 11 | US-11-107-028-49 | Sequence 49, Appl |
| 904 | 26 | 52.0 | 107 | 11 | US-11-107-028-51 | Sequence 51, Appl |
| 905 | 26 | 52.0 | 107 | 11 | US-11-149-031-1 | Sequence 1, Appli |
| 906 | 26 | 52.0 | 107 | 11 | US-11-149-031-3 | Sequence 3, Appli |
| 907 | 26 | 52.0 | 108 | 9 | US-10-665-658-1 | Sequence 1, Appli |
| 908 | 26 | 52.0 | 108 | 9 | US-10-665-658-2 | Sequence 2, Appli |
| 909 | 26 | 52.0 | 108 | 11 | US-11-208-422-13 | Sequence 13, Appl |
| 910 | 26 | 52.0 | 109 | 11 | US-11-259-232-47 | Sequence 47, Appl |
| 911 | 26 | 52.0 | 112 | 11 | US-11-096-568A-16202 | Sequence 16202, A |
| 912 | 26 | 52.0 | 113 | 11 | US-11-072-512-3601 | Sequence 3601, Ap |
| 913 | 26 | 52.0 | 113 | 11 | US-11-096-568A-20116 | Sequence 20116, A |
| 914 | 26 | 52.0 | 115 | 11 | US-11-172-740-990 | Sequence 990, App |
| 915 | 26 | 52.0 | 127 | 11 | US-11-186-284-171 | Sequence 171, App |
| 916 | 26 | 52.0 | 129 | 11 | US-11-102-502-2 | Sequence 2, Appli |
| 917 | 26 | 52.0 | 129 | 11 | US-11-078-469-20 | Sequence 20, Appl |
| 918 | 26 | 52.0 | 129 | 11 | US-11-019-711-32 | Sequence 32, Appl |
| 919 | 26 | 52.0 | 136 | 11 | US-11-072-512-2197 | Sequence 2197, Ap |
| 920 | 26 | 52.0 | 137 | 9 | US-10-644-807-409 | Sequence 409, App |
| 921 | 26 | 52.0 | 138 | 11 | US-11-096-568A-9332 | Sequence 9332, Ap |
| 922 | 26 | 52.0 | 145 | 8 | US-10-511-937-2430 | Sequence 2430, Ap |
| 923 | 26 | 52.0 | 145 | 11 | US-11-078-469-21 | Sequence 21, Appl |
| 924 | 26 | 52.0 | 149 | 11 | US-11-096-568A-7579 | Sequence 7579, Ap |
| 925 | 26 | 52.0 | 150 | 11 | US-11-267-310-9 | Sequence 9, Appli |
| 926 | 26 | 52.0 | 150 | 11 | US-11-267-191-9 | Sequence 9, Appli |
| 927 | 26 | 52.0 | 151 | 11 | US-11-096-568A-20113 | Sequence 20113, A |
| 928 | 26 | 52.0 | 153 | 11 | US-11-267-310-11 | Sequence 11, Appl |
| 929 | 26 | 52.0 | 153 | 11 | US-11-267-191-11 | Sequence 11, Appl |
| 930 | 26 | 52.0 | 155 | 11 | US-11-096-568A-4931 | Sequence 4931, Ap |
| 931 | 26 | 52.0 | 157 | 11 | US-11-096-568A-4930 | Sequence 4930, Ap |
| 932 | 26 | 52.0 | 158 | 11 | US-11-096-568A-9733 | Sequence 9733, Ap |
| 933 | 26 | 52.0 | 160 | 11 | US-11-096-568A-28894 | Sequence 28894, A |
| 934 | 26 | 52.0 | 164 | 11 | US-11-096-568A-4929 | Sequence 4929, Ap |
| 935 | 26 | 52.0 | 165 | 9 | US-10-330-773-971 | Sequence 971, App |
| 936 | 26 | 52.0 | 167 | 11 | US-11-096-568A-21819 | Sequence 21819, A |
| 937 | 26 | 52.0 | 168 | 11 | US-11-096-568A-21818 | Sequence 21818, A |
| 938 | 26 | 52.0 | 172 | 11 | US-11-078-469-22 | Sequence 22, Appl |
| 939 | 26 | 52.0 | 172 | 11 | US-11-096-568A-16967 | Sequence 16967, A |
| 940 | 26 | 52.0 | 172 | 11 | US-11-096-568A-19297 | Sequence 19297, A |
| 941 | 26 | 52.0 | 176 | 11 | US-11-096-568A-21750 | Sequence 21750, A |
| 942 | 26 | 52.0 | 177 | 9 | US-10-980-388-69 | Sequence 69, Appl |
| 943 | 26 | 52.0 | 177 | 11 | US-11-096-568A-23141 | Sequence 23141, A |
| 944 | 26 | 52.0 | 179 | 11 | US-11-255-790-11 | Sequence 11, Appl |
| 945 | 26 | 52.0 | 180 | 11 | US-11-096-568A-6690 | Sequence 6690, Ap |
| 946 | 26 | 52.0 | 180 | 11 | US-11-096-568A-10765 | Sequence 10765, A |
| 947 | 26 | 52.0 | 180 | 11 | US-11-096-568A-32566 | Sequence 32566, A |
| 948 | 26 | 52.0 | 185 | 9 | US-10-467-657-1662 | Sequence 1662, Ap |
| 949 | 26 | 52.0 | 196 | 11 | US-11-093-118-35 | Sequence 35, Appl |
| 950 | 26 | 52.0 | 196 | 11 | US-11-096-568A-28893 | Sequence 28893, A |
| 951 | 26 | 52.0 | 196 | 11 | US-11-079-463-5698 | Sequence 5698, Ap |
| 952 | 26 | 52.0 | 198 | 11 | US-11-096-568A-19296 | Sequence 19296, A |
| 953 | 26 | 52.0 | 199 | 9 | US-10-194-487-588 | Sequence 588, App |
| 954 | 26 | 52.0 | 199 | 9 | US-10-195-883-588 | Sequence 588, App |
| 955 | 26 | 52.0 | 199 | 9 | US-10-195-888-588 | Sequence 588, App |
| 956 | 26 | 52.0 | 199 | 9 | US-10-195-889-588 | Sequence 588, App |
| 957 | 26 | 52.0 | 199 | 11 | US-11-019-711-102 | Sequence 102, App |
| 958 | 26 | 52.0 | 199 | 11 | US-11-096-568A-25691 | Sequence 25691, A |
| 959 | 26 | 52.0 | 204 | 11 | US-11-096-568A-23439 | Sequence 23439, A |
| 960 | 26 | 52.0 | 205 | 9 | US-10-467-657-580 | Sequence 580, App |
| 961 | 26 | 52.0 | 205 | 11 | US-11-128-440-9 | Sequence 9, Appli |
| 962 | 26 | 52.0 | 205 | 11 | US-11-093-118-26 | Sequence 26, Appl |
| 963 | 26 | 52.0 | 207 | 11 | US-11-096-568A-18269 | Sequence 18269, A |
| 964 | 26 | 52.0 | 208 | 11 | US-11-096-568A-21877 | Sequence 21877, A |
| 965 | 26 | 52.0 | 210 | 11 | US-11-096-568A-26121 | Sequence 26121, A |
| 966 | 26 | 52.0 | 212 | 11 | US-11-096-568A-22256 | Sequence 22256, A |
| 967 | 26 | 52.0 | 214 | 11 | US-11-208-422-15 | Sequence 15, Appl |
| 968 | 26 | 52.0 | 216 | 11 | US-11-096-568A-26010 | Sequence 26010, A |
| 969 | 26 | 52.0 | 218 | 11 | US-11-096-568A-21440 | Sequence 21440, A |
| 970 | 26 | 52.0 | 219 | 11 | US-11-188-298-8114 | Sequence 8114, Ap |

| | | | | | | |
|---|---|---|---|---|---|---|
| 971 | 26 | 52.0 | 221 | 11 | US-11-018-868-117 | Sequence 117, App |
| 972 | 26 | 52.0 | 227 | 11 | US-11-079-463-7652 | Sequence 7652, Ap |
| 973 | 26 | 52.0 | 231 | 9 | US-10-330-773-968 | Sequence 968, App |
| 974 | 26 | 52.0 | 234 | 11 | US-11-096-568A-21773 | Sequence 21773, A |
| 975 | 26 | 52.0 | 235 | 7 | US-09-978-360A-782 | Sequence 782, App |
| 976 | 26 | 52.0 | 235 | 11 | US-11-096-568A-1070 | Sequence 1070, Ap |
| 977 | 26 | 52.0 | 237 | 11 | US-11-096-568A-19223 | Sequence 19223, A |
| 978 | 26 | 52.0 | 238 | 11 | US-11-072-512-3294 | Sequence 3294, Ap |
| 979 | 26 | 52.0 | 239 | 11 | US-11-022-040-12 | Sequence 12, Appl |
| 980 | 26 | 52.0 | 240 | 11 | US-11-022-040-4 | Sequence 4, Appli |
| 981 | 26 | 52.0 | 240 | 11 | US-11-022-040-8 | Sequence 8, Appli |
| 982 | 26 | 52.0 | 241 | 11 | US-11-188-298-18997 | Sequence 18997, A |
| 983 | 26 | 52.0 | 243 | 9 | US-10-512-109-23 | Sequence 23, Appl |
| 984 | 26 | 52.0 | 243 | 9 | US-10-512-109-48 | Sequence 48, Appl |
| 985 | 26 | 52.0 | 250 | 11 | US-11-096-568A-23438 | Sequence 23438, A |
| 986 | 26 | 52.0 | 250 | 11 | US-11-172-740-1327 | Sequence 1327, Ap |
| 987 | 26 | 52.0 | 250 | 11 | US-11-188-298-11677 | Sequence 11677, A |
| 988 | 26 | 52.0 | 254 | 11 | US-11-096-568A-32565 | Sequence 32565, A |
| 989 | 26 | 52.0 | 256 | 11 | US-11-096-568A-24137 | Sequence 24137, A |
| 990 | 26 | 52.0 | 256 | 11 | US-11-188-298-6107 | Sequence 6107, Ap |
| 991 | 26 | 52.0 | 259 | 9 | US-10-194-487-250 | Sequence 250, App |
| 992 | 26 | 52.0 | 259 | 9 | US-10-195-883-250 | Sequence 250, App |
| 993 | 26 | 52.0 | 259 | 9 | US-10-195-888-250 | Sequence 250, App |
| 994 | 26 | 52.0 | 259 | 9 | US-10-195-889-250 | Sequence 250, App |
| 995 | 26 | 52.0 | 259 | 11 | US-11-087-099-9579 | Sequence 9579, Ap |
| 996 | 26 | 52.0 | 262 | 11 | US-11-096-568A-8180 | Sequence 8180, Ap |
| 997 | 26 | 52.0 | 263 | 11 | US-11-096-568A-19895 | Sequence 19895, A |
| 998 | 26 | 52.0 | 263 | 11 | US-11-255-790-21 | Sequence 21, Appl |
| 999 | 26 | 52.0 | 263 | 11 | US-11-188-298-19813 | Sequence 19813, A |
| 1000 | 26 | 52.0 | 264 | 11 | US-11-096-568A-28892 | Sequence 28892, A |

ALIGNMENTS

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RESULT 1
US-10-530-061-516
; Sequence 516, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 516
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-516

  Query Match             100.0%;  Score 50;  DB 9;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.024;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db          1 SCCRSSRTR 9


RESULT 2
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-13

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  Best Local Similarity   100.0%;  Pred. No. 0.19;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        138 SCCRSSRTR 146


RESULT 3
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
;  APPLICANT: HealthBanks Biotech CO. LTD.
;  TITLE OF INVENTION: Fusion protein for inhibiting cervcal cancer
;  FILE REFERENCE: P7819/0613
;  CURRENT APPLICATION NUMBER: US/11/206,138
;  CURRENT FILING DATE:  2005-08-18
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-11-206-138-3

  Query Match             100.0%;  Score 50;  DB 11;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        145 SCCRSSRTR 153


RESULT 4
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
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;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-1

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  Best Local Similarity  100.0%;  Pred. No. 0.28;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        138 SCCRSSRTR 146


RESULT 5
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-3

  Query Match            100.0%;  Score 50;  DB 9;  Length 248;
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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        138 SCCRSSRTR 146


RESULT 6
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-5

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  Best Local Similarity  100.0%;  Pred. No. 0.28;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        138 SCCRSSRTR 146


RESULT 7
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-7

  Query Match            100.0%;  Score 50;  DB 9;  Length 248;
  Best Local Similarity  100.0%;  Pred. No. 0.28;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        235 SCCRSSRTR 243


RESULT 8
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-9
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  Query Match             100.0%;  Score 50;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.28;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        235 SCCRSSRTR 243


RESULT 9
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-11

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  Best Local Similarity   100.0%;  Pred. No. 0.28;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        235 SCCRSSRTR 243


RESULT 10
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
;  APPLICANT: PANG, XIAOWU
;  TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
;  TITLE OF INVENTION:  RECOMBINANT REPLICON
;  FILE REFERENCE: 116620-003
;  CURRENT APPLICATION NUMBER: US/11/192,923A
;  CURRENT FILING DATE:  2005-07-29
;  PRIOR APPLICATION NUMBER: CN 03115272.4
;  PRIOR FILING DATE: 2003-01-30
;  PRIOR APPLICATION NUMBER: CN 03115273.2
;  PRIOR FILING DATE: 2003-01-30
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
;   LENGTH: 256
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-11-192-923A-2

  Query Match             100.0%;  Score 50;  DB 11;  Length 256;
  Best Local Similarity   100.0%;  Pred. No. 0.29;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||||||||
Db        243 SCCRSSRTR 251


RESULT 11
US-10-530-061-606
; Sequence 606, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 606
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-606

  Query Match             94.0%;  Score 47;  DB 9;  Length 9;
  Best Local Similarity   88.9%;  Pred. No. 1.9e+05;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              ||||||||:
Db          1 SCCRSSRTK 9


RESULT 12
US-10-530-061-513
; Sequence 513, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 513
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-513

  Query Match             94.0%;  Score 47;  DB 9;  Length 10;
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  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              :|||||||||
Db          2 TCCRSSRTR 10


RESULT 13
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US-10-530-061-514
; Sequence 514, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 514
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-514

  Query Match             94.0%;  Score 47;  DB 9;  Length 10;
  Best Local Similarity   88.9%;  Pred. No. 0.072;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              ||||||||:
Db          2 SCCRSSRTK 10


RESULT 14
US-10-530-061-605
; Sequence 605, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 605
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-605

  Query Match             80.0%;  Score 40;  DB 9;  Length 9;
  Best Local Similarity   88.9%;  Pred. No. 1.9e+05;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              | |||||||
Db          1 SVCRSSRTR 9


RESULT 15
US-10-530-061-515
; Sequence 515, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 515
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-515

  Query Match             80.0%;  Score 40;  DB 9;  Length 10;
  Best Local Similarity   88.9%;  Pred. No. 0.93;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              | |||||||
Db          1 STCRSSRTR 9


RESULT 16
US-11-096-568A-12659
; Sequence 12659, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides I
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 12659
;   LENGTH: 144
;   TYPE: PRT
;   ORGANISM: Triticum aestivum
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(144)
;   OTHER INFORMATION: Ceres Seq. ID no. 14302989
US-11-096-568A-12659

  Query Match             76.0%;  Score 38;  DB 11;  Length 144;
  Best Local Similarity   66.7%;  Pred. No. 15;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              ||||: | |
Db         92 SCCRAGRAR 100


RESULT 17
US-11-079-463-10120
; Sequence 10120, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PATH00-03DIV2
;  CURRENT APPLICATION NUMBER: US/11/079,463
;  CURRENT FILING DATE:  2005-03-14
```

```
;  PRIOR APPLICATION NUMBER: US 60/128,705
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/540,209
;  PRIOR FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 10120
;   LENGTH: 101
;   TYPE: PRT
;   ORGANISM: B.fragilis
US-11-079-463-10120

  Query Match             74.0%;  Score 37;  DB 11;  Length 101;
  Best Local Similarity   75.0%;  Pred. No. 16;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CCRSSRTR 9
              ||||:| |
Db         29 CCRSARLR 36


RESULT 18
US-10-644-807-200
; Sequence 200, Application US/10644807
; Publication No. US20060057582A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: 83 Human Secreted Proteins
;  FILE REFERENCE: PS735
;  CURRENT APPLICATION NUMBER: US/10/644,807
;  CURRENT FILING DATE:  2003-08-21
;  PRIOR APPLICATION NUMBER: PCT/US02/05064
;  PRIOR FILING DATE: 2002-02-21
;  PRIOR APPLICATION NUMBER: 60/270,658
;  PRIOR FILING DATE: 2001-02-23
;  PRIOR APPLICATION NUMBER: 60/304,444
;  PRIOR FILING DATE: 2001-07-12
;  NUMBER OF SEQ ID NOS: 445
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 200
;   LENGTH: 95
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-644-807-200

  Query Match             72.0%;  Score 36;  DB 9;  Length 95;
  Best Local Similarity   75.0%;  Pred. No. 23;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRT 8
              ||||  ||
Db         62 SCCRGRRT 69


RESULT 19
US-10-644-807-283
; Sequence 283, Application US/10644807
; Publication No. US20060057582A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: 83 Human Secreted Proteins
;  FILE REFERENCE: PS735
;  CURRENT APPLICATION NUMBER: US/10/644,807
;  CURRENT FILING DATE:  2003-08-21
;  PRIOR APPLICATION NUMBER: PCT/US02/05064
;  PRIOR FILING DATE: 2002-02-21
;  PRIOR APPLICATION NUMBER: 60/270,658
;  PRIOR FILING DATE: 2001-02-23
;  PRIOR APPLICATION NUMBER: 60/304,444
;  PRIOR FILING DATE: 2001-07-12
;  NUMBER OF SEQ ID NOS: 445
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 283
;   LENGTH: 95
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (80)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-644-807-283

  Query Match             72.0%;  Score 36;  DB 9;  Length 95;
  Best Local Similarity   75.0%;  Pred. No. 23;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRT 8
              ||||  ||
Db         62 SCCRGRRT 69


RESULT 20
US-11-096-568A-23117
; Sequence 23117, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 23117
;   LENGTH: 104
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(104)
;   OTHER INFORMATION: Ceres Seq. ID no. 12411336
US-11-096-568A-23117

  Query Match             72.0%;  Score 36;  DB 11;  Length 104;
  Best Local Similarity   75.0%;  Pred. No. 24;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 CCRSSRTR 9
              ||  ||||
Db         93 CCSGSRTR 100


RESULT 21
US-11-079-463-7574
; Sequence 7574, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRAC
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PATH00-03DIV2
;  CURRENT APPLICATION NUMBER: US/11/079,463
;  CURRENT FILING DATE:  2005-03-14
;  PRIOR APPLICATION NUMBER: US 60/128,705
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/540,209
;  PRIOR FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 7574
;   LENGTH: 522
;   TYPE: PRT
;   ORGANISM: B.fragilis
US-11-079-463-7574

  Query Match             72.0%;  Score 36;  DB 11;  Length 522;
  Best Local Similarity   100.0%;  Pred. No. 83;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy          2 CCRSSR 7
              ||||||
Db        514 CCRSSR 519


RESULT 22
US-10-877-346-44
; Sequence 44, Application US/10877346
; Publication No. US20060014153A1
; GENERAL INFORMATION:
;  APPLICANT: Gerlach, Valerie L
;  APPLICANT:  MacDougall, John R
;  APPLICANT:  Smithson, Glennda
;  APPLICANT:  Millet, Isabelle
;  APPLICANT:  Stone, David
;  APPLICANT:  Gunther, Erik
;  APPLICANT:  Ellerman, Karen
;  APPLICANT:  Grosse, William M
;  APPLICANT:  Alsobrook II, John P
;  APPLICANT:  Lepley, Denise M
;  APPLICANT:  Burgess, Catherine E
;  APPLICANT:  Padigaru, Muralidhara
;  APPLICANT:  Kekuda, Ramesh
;  APPLICANT:  Spytek, Kimberly A
;  APPLICANT:  Leach, Martin D
;  APPLICANT:  Shimkets, Richard A
;  TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
;  FILE REFERENCE: 21402-124
;  CURRENT APPLICATION NUMBER: US/10/877,346
;  CURRENT FILING DATE:  2004-06-25
;  PRIOR APPLICATION NUMBER: US/09/964,956
;  PRIOR FILING DATE: 2001-09-26
;  PRIOR APPLICATION NUMBER: 60/235,631
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: 60/235,633
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: 60/235,808
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: 60/236,064
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: 60/236,065
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: 60/236,066
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: 60/236,135
;  PRIOR FILING DATE: 2000-09-28
;  PRIOR APPLICATION NUMBER: 60/237,434
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/238,321
;  PRIOR FILING DATE: 2000-10-05
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 127
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 44
;   LENGTH: 1905
;   TYPE: PRT
;   ORGANISM: Xenopus laevis
US-10-877-346-44

  Query Match             72.0%;  Score 36;  DB 9;  Length 1905;
  Best Local Similarity   75.0%;  Pred. No. 2.2e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRT 8
              ||||| :|
Db       1506 SCCRSPQT 1513


RESULT 23
US-11-096-568A-22028
; Sequence 22028, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 22028
;   LENGTH: 496
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(496)
;   OTHER INFORMATION: Ceres Seq. ID no. 12407297
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (229)..(229)
;   OTHER INFORMATION: Xaa is any aa, unknown or other
US-11-096-568A-22028

  Query Match             71.0%;  Score 35.5;  DB 11;  Length 496;
  Best Local Similarity   80.0%;  Pred. No. 96;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    1;  Gaps    1;

Qy          1 SC-CRSSRTR 9
              || ||| |||
Db        398 SCACRSGRTR 407


RESULT 24
US-11-096-568A-22027
; Sequence 22027, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 22027
;   LENGTH: 499
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(499)
;   OTHER INFORMATION: Ceres Seq. ID no. 12407296
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (232)..(232)
;   OTHER INFORMATION: Xaa is any aa, unknown or other
US-11-096-568A-22027

  Query Match             71.0%;  Score 35.5;  DB 11;  Length 499;
  Best Local Similarity   80.0%;  Pred. No. 97;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    1;  Gaps    1;

Qy          1 SC-CRSSRTR 9
              || ||| |||
Db        401 SCACRSGRTR 410


RESULT 25
US-11-096-568A-27
; Sequence 27, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
```

```
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 27
;   LENGTH: 128
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(128)
;   OTHER INFORMATION: Ceres Seq. ID no. 13587230
US-11-096-568A-27

  Query Match             70.0%;  Score 35;  DB 11;  Length 128;
  Best Local Similarity   100.0%;  Pred. No. 41;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSS 6
              ||||||
Db         47 SCCRSS 52


RESULT 26
US-11-096-568A-26
; Sequence 26, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 26
;   LENGTH: 143
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(143)
;   OTHER INFORMATION: Ceres Seq. ID no. 13587229
US-11-096-568A-26

  Query Match             70.0%;  Score 35;  DB 11;  Length 143;
  Best Local Similarity   100.0%;  Pred. No. 44;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSS 6
              ||||||
Db         62 SCCRSS 67


RESULT 27
US-10-972-587-22
; Sequence 22, Application US/10972587
; Publication No. US20050246799A1
; GENERAL INFORMATION:
;  APPLICANT: Song, Xiaoling
;  APPLICANT:  Bariola, Pauline Anne
;  APPLICANT:  Linderoth, Nora Abiella
;  APPLICANT:  Fan, Hao
;  APPLICANT:  Wei, Zhong-Min
;  TITLE OF INVENTION: RECEPTORS FOR HYPERSENSITIVE RESPONSE ELICITORS AND
;  TITLE OF INVENTION:  USES THEREOF
;  FILE REFERENCE: 21829/213
;  CURRENT APPLICATION NUMBER: US/10/972,587
;  CURRENT FILING DATE:  2004-10-25
;  PRIOR APPLICATION NUMBER: 60/335,776
;  PRIOR FILING DATE: 2001-10-31
;  PRIOR APPLICATION NUMBER: 09/810,997
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 10/174,209
;  PRIOR FILING DATE: 2002-06-17
;  NUMBER OF SEQ ID NOS: 86
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 22
;   LENGTH: 275
;   TYPE: PRT
;   ORGANISM: Triticum
US-10-972-587-22

  Query Match             70.0%;  Score 35;  DB 9;  Length 275;
  Best Local Similarity   66.7%;  Pred. No. 73;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              ||| |: ||
Db          8 SCCASTSTR 16


RESULT 28
US-10-972-587-20
; Sequence 20, Application US/10972587
; Publication No. US20050246799A1
; GENERAL INFORMATION:
;  APPLICANT: Song, Xiaoling
;  APPLICANT:  Bariola, Pauline Anne
;  APPLICANT:  Linderoth, Nora Abiella
;  APPLICANT:  Fan, Hao
;  APPLICANT:  Wei, Zhong-Min
;  TITLE OF INVENTION: RECEPTORS FOR HYPERSENSITIVE RESPONSE ELICITORS AND
;  TITLE OF INVENTION:  USES THEREOF
;  FILE REFERENCE: 21829/213
;  CURRENT APPLICATION NUMBER: US/10/972,587
;  CURRENT FILING DATE:  2004-10-25
;  PRIOR APPLICATION NUMBER: 60/335,776
;  PRIOR FILING DATE: 2001-10-31
;  PRIOR APPLICATION NUMBER: 09/810,997
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 10/174,209
;  PRIOR FILING DATE: 2002-06-17
;  NUMBER OF SEQ ID NOS: 86
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
;   LENGTH: 277
;   TYPE: PRT
;   ORGANISM: Triticum
US-10-972-587-20

  Query Match             70.0%;  Score 35;  DB 9;  Length 277;
  Best Local Similarity   66.7%;  Pred. No. 74;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              ||| |: ||
Db         10 SCCASTSTR 18


RESULT 29
US-11-087-099-575
; Sequence 575, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 575
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Agrobacterium tumefaciens str. C58 (Cereon)
```

US-11-087-099-575

Query Match 70.0%; Score 35; DB 11; Length 371;
Best Local Similarity 85.7%; Pred. No. 92;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
Qy          2 CCRSSRT 8
              ||| |||
Db          3 CCRFSRT 9
```

RESULT 30
US-10-982-145-72
; Sequence 72, Application US/10982145
; Publication No. US20050272645A1
; GENERAL INFORMATION:
; APPLICANT: Robert Lehrer
; APPLICANT: Alan Waring
; APPLICANT: Alexander Cole
; APPLICANT: Teresa Hong
; TITLE OF INVENTION: Retrocyclins: Antiviral and
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: UCLA-001CIP2
; CURRENT APPLICATION NUMBER: US/10/982,145
; CURRENT FILING DATE: 2004-11-05
; PRIOR APPLICATION NUMBER: US03/14106
; PRIOR FILING DATE: 2003-05-06
; PRIOR APPLICATION NUMBER: 10/141,645
; PRIOR FILING DATE: 2002-05-06
; PRIOR APPLICATION NUMBER: US02/12353
; PRIOR FILING DATE: 2002-04-18
; PRIOR APPLICATION NUMBER: 60/284,855
; PRIOR FILING DATE: 2001-04-18
; NUMBER OF SEQ ID NOS: 135
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 72
; LENGTH: 141
; TYPE: PRT
; ORGANISM: Rhesus monkey
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: 113
; OTHER INFORMATION: Xaa = Any Amino Acid
US-10-982-145-72

Query Match 68.0%; Score 34; DB 9; Length 141;
Best Local Similarity 62.5%; Pred. No. 63;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

```
Qy          2 CCRSSRTR 9
              |||:|| :
Db         95 CCRASRIK 102
```

RESULT 31
US-10-982-145-73
; Sequence 73, Application US/10982145
; Publication No. US20050272645A1
; GENERAL INFORMATION:
; APPLICANT: Robert Lehrer
; APPLICANT: Alan Waring
; APPLICANT: Alexander Cole
; APPLICANT: Teresa Hong
; TITLE OF INVENTION: Retrocyclins: Antiviral and
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: UCLA-001CIP2
; CURRENT APPLICATION NUMBER: US/10/982,145
; CURRENT FILING DATE: 2004-11-05
; PRIOR APPLICATION NUMBER: US03/14106
; PRIOR FILING DATE: 2003-05-06
; PRIOR APPLICATION NUMBER: 10/141,645
; PRIOR FILING DATE: 2002-05-06
; PRIOR APPLICATION NUMBER: US02/12353
; PRIOR FILING DATE: 2002-04-18
; PRIOR APPLICATION NUMBER: 60/284,855
; PRIOR FILING DATE: 2001-04-18
; NUMBER OF SEQ ID NOS: 135
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 73
; LENGTH: 141
; TYPE: PRT
; ORGANISM: Pig-tailed macaque
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: 113
; OTHER INFORMATION: Xaa = Any Amino Acid
US-10-982-145-73

Query Match 68.0%; Score 34; DB 9; Length 141;
Best Local Similarity 62.5%; Pred. No. 63;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

```
Qy          2 CCRSSRTR 9
              |||:|| :
Db         95 CCRASRIK 102
```

RESULT 32
US-11-096-568A-14075
; Sequence 14075, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 14075
; LENGTH: 156
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(156)
; OTHER INFORMATION: Ceres Seq. ID no. 1439682
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (67)..(67)
; OTHER INFORMATION: Xaa is any aa, unknown or other
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (152)..(152)
; OTHER INFORMATION: Xaa is any aa, unknown or other
US-11-096-568A-14075

Query Match 68.0%; Score 34; DB 11; Length 156;
Best Local Similarity 75.0%; Pred. No. 68;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 SCCRSSRT 8
              ||| |||:
Db         15 SCCDSSRS 22
```

RESULT 33
US-11-096-568A-26773
; Sequence 26773, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A

```
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 26773
;   LENGTH: 204
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(204)
;   OTHER INFORMATION: Ceres Seq. ID no. 13600327
US-11-096-568A-26773

  Query Match             68.0%;  Score 34;  DB 11;  Length 204;
  Best Local Similarity   66.7%;  Pred. No. 84;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              ||||  | |
Db        126 SCCRRCRRR 134


RESULT 34
US-11-096-568A-1257
; Sequence 1257, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1257
;   LENGTH: 251
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(251)
;   OTHER INFORMATION: Ceres Seq. ID no. 13624031
US-11-096-568A-1257

  Query Match             68.0%;  Score 34;  DB 11;  Length 251;
  Best Local Similarity   66.7%;  Pred. No. 99;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              ||||  | |
Db        173 SCCRRCRRR 181


RESULT 35
US-11-096-568A-1259
; Sequence 1259, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1259
;   LENGTH: 251
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(251)
;   OTHER INFORMATION: Ceres Seq. ID no. 16625722
US-11-096-568A-1259

  Query Match             68.0%;  Score 34;  DB 11;  Length 251;
  Best Local Similarity   66.7%;  Pred. No. 99;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              ||||  | |
Db        173 SCCRRCRRR 181


RESULT 36
US-11-096-568A-1256
; Sequence 1256, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1256
;   LENGTH: 280
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(280)
;   OTHER INFORMATION: Ceres Seq. ID no. 13624030
US-11-096-568A-1256

  Query Match             68.0%;  Score 34;  DB 11;  Length 280;
  Best Local Similarity   66.7%;  Pred. No. 1.1e+02;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              ||||  | |
Db        202 SCCRRCRRR 210


RESULT 37
US-11-096-568A-18072
; Sequence 18072, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 18072
;   LENGTH: 320
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(320)
;   OTHER INFORMATION: Ceres Seq. ID no. 12362591
US-11-096-568A-18072

  Query Match             68.0%;  Score 34;  DB 11;  Length 320;
  Best Local Similarity   62.5%;  Pred. No. 1.2e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CCRSSRTR 9
              || ::|||
Db         74 CCSAARTR 81


RESULT 38
```

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US-11-188-298-20370
; Sequence 20370, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 20370
;   LENGTH: 384
;   TYPE: PRT
;   ORGANISM: Nicotiana tabacum
US-11-188-298-20370

  Query Match             68.0%;  Score 34;  DB 11;  Length 384;
  Best Local Similarity   75.0%;  Pred. No. 1.4e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 CCRSSRTR 9
              || | |||
Db        229 CCVSERTR 236


RESULT 39
US-11-096-568A-22755
; Sequence 22755, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 22755
;   LENGTH: 414
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(414)
;   OTHER INFORMATION: Ceres Seq. ID no. 12409897
US-11-096-568A-22755

  Query Match             68.0%;  Score 34;  DB 11;  Length 414;
  Best Local Similarity   66.7%;  Pred. No. 1.4e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              ||||:|  |
Db         84 SCCRTSSWR 92


RESULT 40
US-11-159-667-38
; Sequence 38, Application US/11159667
; Publication No. US20060041958A1
; GENERAL INFORMATION:
;  APPLICANT: Butenko, Melinka
;  APPLICANT: Aalen, Reidunn
;  TITLE OF INVENTION: Plant gene
;  FILE REFERENCE: 674178-2001
;  CURRENT APPLICATION NUMBER: US/11/159,667
;  CURRENT FILING DATE:  2005-06-23
;  PRIOR APPLICATION NUMBER: PCT/N003/00428
;  PRIOR FILING DATE: 2003-12-19
;  PRIOR APPLICATION NUMBER: GB0230039.0
;  PRIOR FILING DATE: 2002-12-23
;  PRIOR APPLICATION NUMBER: GB0313773.4
;  PRIOR FILING DATE: 2003-06-13
;  NUMBER OF SEQ ID NOS: 42
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 38
;   LENGTH: 99
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
US-11-159-667-38

  Query Match             66.0%;  Score 33;  DB 11;  Length 99;
  Best Local Similarity   62.5%;  Pred. No. 70;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRT 8
              |||  :||
Db         28 SCCNGART 35


RESULT 41
US-10-821-234-1130
; Sequence 1130, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
;  APPLICANT: Labat, Ivan
;  APPLICANT:  Stache-Crain, Birgit
;  APPLICANT:  Andarmani, Susan
;  APPLICANT:  Tang, Y. Tom
;  TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
;  FILE REFERENCE: 821A
;  CURRENT APPLICATION NUMBER: US/10/821,234
;  CURRENT FILING DATE:  2004-04-07
;  PRIOR APPLICATION NUMBER: US 60/462,047
;  PRIOR FILING DATE: 2003-04-07
;  NUMBER OF SEQ ID NOS: 1704
;  SOFTWARE: pt_SEQ_genes Version 1.0
; SEQ ID NO 1130
;   LENGTH: 185
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-821-234-1130

  Query Match             66.0%;  Score 33;  DB 9;  Length 185;
  Best Local Similarity   62.5%;  Pred. No. 1.1e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 CCRSSRTR 9
              |||  |:|
Db        125 CCRRKRSR 132


RESULT 42
US-11-096-568A-23996
; Sequence 23996, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 23996
;   LENGTH: 190
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(190)
;   OTHER INFORMATION: Ceres Seq. ID no. 12417446
US-11-096-568A-23996
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  Query Match             66.0%;  Score 33;  DB 11;  Length 190;
  Best Local Similarity   71.4%;  Pred. No. 1.1e+02;
  Matches    5;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 CCRSSRT 8
              |||  ||
Db         49 CCRQGRT 55


RESULT 43
US-11-087-099-2802
; Sequence 2802, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 2802
;   LENGTH: 206
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(206)
;   OTHER INFORMATION: unsure at all Xaa locations
US-11-087-099-2802

  Query Match             66.0%;  Score 33;  DB 11;  Length 206;
  Best Local Similarity   62.5%;  Pred. No. 1.2e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRT 8
              :|||  ||:
Db         35 ACCRRSRS 42


RESULT 44
US-11-096-568A-20616
; Sequence 20616, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 20616
;   LENGTH: 274
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(274)
;   OTHER INFORMATION: Ceres Seq. ID no. 12383535
US-11-096-568A-20616

  Query Match             66.0%;  Score 33;  DB 11;  Length 274;
  Best Local Similarity   83.3%;  Pred. No. 1.5e+02;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CCRSSR 7
              |||:||
Db        215 CCRASR 220


RESULT 45
US-11-096-568A-20615
; Sequence 20615, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides I
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 20615
;   LENGTH: 340
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(340)
;   OTHER INFORMATION: Ceres Seq. ID no. 12383534
US-11-096-568A-20615

  Query Match             66.0%;  Score 33;  DB 11;  Length 340;
  Best Local Similarity   83.3%;  Pred. No. 1.8e+02;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CCRSSR 7
              |||:||
Db        281 CCRASR 286


RESULT 46
US-11-096-568A-20614
; Sequence 20614, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides I
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 20614
;   LENGTH: 360
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(360)
;   OTHER INFORMATION: Ceres Seq. ID no. 12383533
US-11-096-568A-20614

  Query Match             66.0%;  Score 33;  DB 11;  Length 360;
  Best Local Similarity   83.3%;  Pred. No. 1.9e+02;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CCRSSR 7
              |||:||
Db        301 CCRASR 306


RESULT 47
US-11-188-298-12248
; Sequence 12248, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 12248
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;   LENGTH: 902
;   TYPE: PRT
;   ORGANISM: Lycopersicon esculentum
US-11-188-298-12248

  Query Match             66.0%;  Score 33;  DB 11;  Length 902;
  Best Local Similarity   55.6%;  Pred. No. 3.8e+02;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SCCRSSRTR 9
              |||:: :||
Db         16 SCCQNLQTR 24


RESULT 48
US-10-895-064-42
; Sequence 42, Application US/10895064
; Publication No. US20060018923A1
; GENERAL INFORMATION:
;  APPLICANT: PEIRIS, JOSEPH S.M.
;  APPLICANT:  YUEN, KWOK YUNG
;  APPLICANT:  POON, LIT MAN
;  APPLICANT:  GUAN, YI
;  APPLICANT:  CHAN, KWOK HUNG
;  APPLICANT:  NICHOLLS, JOHN M.
;  APPLICANT:  LEUNG, FREDERICK C.
;  TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT INFECTION AND USES
;  TITLE OF INVENTION:  THEREOF
;  FILE REFERENCE: V0690.0031
;  CURRENT APPLICATION NUMBER: US/10/895,064
;  CURRENT FILING DATE:  2004-07-21
;  NUMBER OF SEQ ID NOS: 2918
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 42
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Corononavirus-HKU1
US-10-895-064-42

  Query Match             64.0%;  Score 32;  DB 9;  Length 9;
  Best Local Similarity   83.3%;  Pred. No. 1.9e+05;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSS 6
              :|||||
Db          3 TCCRSS 8


RESULT 49
US-11-129-741-42
; Sequence 42, Application US/11129741
; Publication No. US20060034853A1
; GENERAL INFORMATION:
;  APPLICANT: YUEN, KWOK YUNG
;  APPLICANT:  WOO, CHIU YAT PATRICK
;  APPLICANT:  LAU, KAR PUI SUSANNA
;  APPLICANT:  CHAN, KWOK HUNG
;  APPLICANT:  POON, LIT MAN
;  APPLICANT:  PEIRIS, JOSEPH S.M.
;  APPLICANT:  GUAN, YI
;  TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT
;  TITLE OF INVENTION:  INFECTION AND USES THEREOF
;  FILE REFERENCE: V0690.0044
;  CURRENT APPLICATION NUMBER: US/11/129,741
;  CURRENT FILING DATE:  2005-05-16
;  PRIOR APPLICATION NUMBER: 10/895,064
;  PRIOR FILING DATE: 2004-07-21
;  NUMBER OF SEQ ID NOS: 4257
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Corononavirus-HKU1
US-11-129-741-42

  Query Match             64.0%;  Score 32;  DB 11;  Length 9;
  Best Local Similarity   83.3%;  Pred. No. 1.9e+05;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSS 6
              :|||||
Db          3 TCCRSS 8


RESULT 50
US-11-129-741-2978
; Sequence 2978, Application US/11129741
; Publication No. US20060034853A1
; GENERAL INFORMATION:
;  APPLICANT: YUEN, KWOK YUNG
;  APPLICANT:  WOO, CHIU YAT PATRICK
;  APPLICANT:  LAU, KAR PUI SUSANNA
;  APPLICANT:  CHAN, KWOK HUNG
;  APPLICANT:  POON, LIT MAN
;  APPLICANT:  PEIRIS, JOSEPH S.M.
;  APPLICANT:  GUAN, YI
;  TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT
;  TITLE OF INVENTION:  INFECTION AND USES THEREOF
;  FILE REFERENCE: V0690.0044
;  CURRENT APPLICATION NUMBER: US/11/129,741
;  CURRENT FILING DATE:  2005-05-16
;  PRIOR APPLICATION NUMBER: 10/895,064
;  PRIOR FILING DATE: 2004-07-21
;  NUMBER OF SEQ ID NOS: 4257
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2978
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Corononavirus-HKU1
US-11-129-741-2978

  Query Match             64.0%;  Score 32;  DB 11;  Length 9;
  Best Local Similarity   83.3%;  Pred. No. 1.9e+05;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SCCRSS 6
              :|||||
Db          3 TCCRSS 8


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Job time : 19.4 secs
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OM protein - protein search, using sw model

Run on: May 5, 2006, 01:33:35 ; Search time 18.2 Seconds
(without alignments)
40.884 Million cell updates/sec

Title: US-08-170-344-58
Perfect score: 51
Sequence: 1 CCRSSRTRR 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Issued_Patents_AA:*
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2: /cgn2_6/ptodata/1/iaa/6_COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
|---|---|---|---|---|---|---|
| 1 | 51 | 100.0 | 21 | 1 | US-08-934-915-167 | Sequence 167, App |
| 2 | 51 | 100.0 | 151 | 2 | US-09-701-080C-18 | Sequence 18, Appl |
| 3 | 51 | 100.0 | 158 | 2 | US-09-980-523A-2 | Sequence 2, Appli |
| 4 | 51 | 100.0 | 162 | 1 | US-08-316-239B-3 | Sequence 3, Appli |
| 5 | 51 | 100.0 | 162 | 1 | US-08-316-239B-4 | Sequence 4, Appli |
| 6 | 51 | 100.0 | 172 | 2 | US-08-860-165-12 | Sequence 12, Appl |
| 7 | 51 | 100.0 | 172 | 2 | US-09-359-382-12 | Sequence 12, Appl |
| 8 | 51 | 100.0 | 243 | 2 | US-09-462-993-1 | Sequence 1, Appli |
| 9 | 51 | 100.0 | 266 | 2 | US-08-860-165-10 | Sequence 10, Appl |
| 10 | 51 | 100.0 | 266 | 2 | US-09-359-382-10 | Sequence 10, Appl |
| 11 | 51 | 100.0 | 266 | 2 | US-09-367-309A-1 | Sequence 1, Appli |
| 12 | 51 | 100.0 | 273 | 2 | US-09-485-885-4 | Sequence 4, Appli |
| 13 | 51 | 100.0 | 292 | 2 | US-09-485-885-10 | Sequence 10, Appl |
| 14 | 51 | 100.0 | 371 | 2 | US-09-485-885-6 | Sequence 6, Appli |
| 15 | 51 | 100.0 | 390 | 2 | US-09-485-885-14 | Sequence 14, Appl |
| 16 | 44 | 86.3 | 171 | 2 | US-08-311-731A-381 | Sequence 381, App |
| 17 | 41 | 80.4 | 230 | 2 | US-09-252-991A-33122 | Sequence 33122, A |
| 18 | 41 | 80.4 | 337 | 2 | US-09-477-962-125 | Sequence 125, App |
| 19 | 40 | 78.4 | 109 | 2 | US-09-252-991A-22787 | Sequence 22787, A |
| 20 | 39 | 76.5 | 953 | 2 | US-09-252-991A-30039 | Sequence 30039, A |
| 21 | 38 | 74.5 | 161 | 2 | US-09-270-767-36971 | Sequence 36971, A |
| 22 | 38 | 74.5 | 161 | 2 | US-09-270-767-52188 | Sequence 52188, A |
| 23 | 38 | 74.5 | 350 | 2 | US-09-949-016-8615 | Sequence 8615, Ap |
| 24 | 38 | 74.5 | 719 | 2 | US-09-252-991A-30052 | Sequence 30052, A |
| 25 | 37 | 72.5 | 87 | 2 | US-09-252-991A-25071 | Sequence 25071, A |
| 26 | 37 | 72.5 | 93 | 2 | US-09-287-849-35 | Sequence 35, Appl |
| 27 | 37 | 72.5 | 109 | 2 | US-09-252-991A-29444 | Sequence 29444, A |
| 28 | 37 | 72.5 | 113 | 2 | US-09-252-991A-29076 | Sequence 29076, A |
| 29 | 37 | 72.5 | 136 | 2 | US-09-252-991A-21156 | Sequence 21156, A |
| 30 | 37 | 72.5 | 138 | 2 | US-09-489-039A-12930 | Sequence 12930, A |
| 31 | 37 | 72.5 | 145 | 2 | US-09-252-991A-23153 | Sequence 23153, A |
| 32 | 37 | 72.5 | 154 | 2 | US-09-252-991A-30960 | Sequence 30960, A |
| 33 | 37 | 72.5 | 207 | 2 | US-09-270-767-32689 | Sequence 32689, A |
| 34 | 37 | 72.5 | 207 | 2 | US-09-270-767-47906 | Sequence 47906, A |
| 35 | 37 | 72.5 | 309 | 2 | US-09-252-991A-27914 | Sequence 27914, A |
| 36 | 37 | 72.5 | 633 | 2 | US-09-252-991A-26229 | Sequence 26229, A |
| 37 | 36 | 70.6 | 141 | 2 | US-10-141-645-72 | Sequence 72, Appl |
| 38 | 36 | 70.6 | 141 | 2 | US-10-141-645-73 | Sequence 73, Appl |
| 39 | 36 | 70.6 | 153 | 2 | US-09-252-991A-26200 | Sequence 26200, A |
| 40 | 36 | 70.6 | 156 | 2 | US-09-252-991A-24413 | Sequence 24413, A |
| 41 | 36 | 70.6 | 249 | 2 | US-09-252-991A-28972 | Sequence 28972, A |
| 42 | 36 | 70.6 | 331 | 2 | US-09-252-991A-24140 | Sequence 24140, A |
| 43 | 36 | 70.6 | 446 | 2 | US-09-252-991A-21791 | Sequence 21791, A |
| 44 | 35 | 68.6 | 87 | 2 | US-09-252-991A-21662 | Sequence 21662, A |
| 45 | 35 | 68.6 | 90 | 2 | US-09-270-767-34477 | Sequence 34477, A |
| 46 | 35 | 68.6 | 90 | 2 | US-09-270-767-49694 | Sequence 49694, A |
| 47 | 35 | 68.6 | 143 | 2 | US-09-252-991A-31561 | Sequence 31561, A |
| 48 | 35 | 68.6 | 144 | 2 | US-09-949-016-11102 | Sequence 11102, A |
| 49 | 35 | 68.6 | 147 | 2 | US-09-252-991A-17724 | Sequence 17724, A |
| 50 | 35 | 68.6 | 150 | 2 | US-09-252-991A-24700 | Sequence 24700, A |
| 51 | 35 | 68.6 | 180 | 2 | US-09-949-016-6478 | Sequence 6478, Ap |
| 52 | 35 | 68.6 | 198 | 2 | US-09-252-991A-19295 | Sequence 19295, A |
| 53 | 35 | 68.6 | 210 | 2 | US-09-252-991A-28014 | Sequence 28014, A |
| 54 | 35 | 68.6 | 232 | 2 | US-09-252-991A-23648 | Sequence 23648, A |
| 55 | 35 | 68.6 | 266 | 2 | US-09-252-991A-19128 | Sequence 19128, A |
| 56 | 35 | 68.6 | 392 | 2 | US-09-252-991A-19053 | Sequence 19053, A |
| 57 | 35 | 68.6 | 465 | 2 | US-09-489-039A-10231 | Sequence 10231, A |
| 58 | 35 | 68.6 | 522 | 2 | US-08-821-984-10 | Sequence 10, Appl |
| 59 | 35 | 68.6 | 522 | 2 | US-09-329-749-10 | Sequence 10, Appl |
| 60 | 35 | 68.6 | 522 | 2 | US-09-502-264-10 | Sequence 10, Appl |
| 61 | 35 | 68.6 | 523 | 2 | US-09-549-519-35 | Sequence 35, Appl |
| 62 | 35 | 68.6 | 736 | 2 | US-09-252-991A-32256 | Sequence 32256, A |
| 63 | 34 | 66.7 | 56 | 2 | US-09-439-313-564 | Sequence 564, App |
| 64 | 34 | 66.7 | 58 | 2 | US-09-439-313-547 | Sequence 547, App |
| 65 | 34 | 66.7 | 58 | 2 | US-09-636-215-547 | Sequence 547, App |
| 66 | 34 | 66.7 | 58 | 2 | US-09-685-166A-547 | Sequence 547, App |
| 67 | 34 | 66.7 | 58 | 2 | US-09-679-426-547 | Sequence 547, App |
| 68 | 34 | 66.7 | 58 | 2 | US-09-759-143-547 | Sequence 547, App |
| 69 | 34 | 66.7 | 58 | 2 | US-09-651-236-547 | Sequence 547, App |
| 70 | 34 | 66.7 | 58 | 2 | US-09-657-279-547 | Sequence 547, App |
| 71 | 34 | 66.7 | 58 | 2 | US-10-012-896-547 | Sequence 547, App |
| 72 | 34 | 66.7 | 102 | 2 | US-09-252-991A-28085 | Sequence 28085, A |
| 73 | 34 | 66.7 | 108 | 2 | US-09-489-039A-9392 | Sequence 9392, Ap |
| 74 | 34 | 66.7 | 141 | 2 | US-09-252-991A-26302 | Sequence 26302, A |
| 75 | 34 | 66.7 | 161 | 2 | US-09-252-991A-27639 | Sequence 27639, A |
| 76 | 34 | 66.7 | 202 | 2 | US-09-252-991A-18240 | Sequence 18240, A |
| 77 | 34 | 66.7 | 227 | 2 | US-09-252-991A-19432 | Sequence 19432, A |
| 78 | 34 | 66.7 | 230 | 2 | US-09-252-991A-27570 | Sequence 27570, A |
| 79 | 34 | 66.7 | 321 | 2 | US-09-413-231-8 | Sequence 8, Appli |
| 80 | 34 | 66.7 | 342 | 2 | US-09-252-991A-32031 | Sequence 32031, A |
| 81 | 34 | 66.7 | 371 | 2 | US-09-636-215-708 | Sequence 708, App |
| 82 | 34 | 66.7 | 371 | 2 | US-09-685-166A-708 | Sequence 708, App |
| 83 | 34 | 66.7 | 371 | 2 | US-09-679-426-708 | Sequence 708, App |
| 84 | 34 | 66.7 | 371 | 2 | US-09-759-143-708 | Sequence 708, App |
| 85 | 34 | 66.7 | 371 | 2 | US-09-651-236-708 | Sequence 708, App |
| 86 | 34 | 66.7 | 371 | 2 | US-09-657-279-708 | Sequence 708, App |
| 87 | 34 | 66.7 | 371 | 2 | US-10-012-896-708 | Sequence 708, App |
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| 90 | 34 | 66.7 | 400 | 2 | US-09-679-426-852 | Sequence 852, App |
| 91 | 34 | 66.7 | 400 | 2 | US-09-759-143-852 | Sequence 852, App |
| 92 | 34 | 66.7 | 400 | 2 | US-09-651-236-852 | Sequence 852, App |
| 93 | 34 | 66.7 | 400 | 2 | US-09-657-279-852 | Sequence 852, App |
| 94 | 34 | 66.7 | 400 | 2 | US-10-012-896-852 | Sequence 852, App |
| 95 | 34 | 66.7 | 430 | 2 | US-08-997-897-2 | Sequence 2, Appli |
| 96 | 34 | 66.7 | 430 | 2 | US-09-156-836B-2 | Sequence 2, Appli |
| 97 | 34 | 66.7 | 543 | 2 | US-09-252-991A-28875 | Sequence 28875, A |
| 98 | 34 | 66.7 | 553 | 2 | US-09-020-956-113 | Sequence 113, App |
| 99 | 34 | 66.7 | 553 | 2 | US-09-030-607-113 | Sequence 113, App |
| 100 | 34 | 66.7 | 553 | 2 | US-09-439-313-113 | Sequence 113, App |

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| 102 | 34 | 66.7 | 553 | 2 | US-09-602-877A-101 | Sequence 101, App |
| 103 | 34 | 66.7 | 553 | 2 | US-09-232-149A-113 | Sequence 113, App |
| 104 | 34 | 66.7 | 553 | 2 | US-09-159-812-113 | Sequence 113, App |
| 105 | 34 | 66.7 | 553 | 2 | US-09-636-215-113 | Sequence 113, App |
| 106 | 34 | 66.7 | 553 | 2 | US-09-685-166A-113 | Sequence 113, App |
| 107 | 34 | 66.7 | 553 | 2 | US-09-115-453-113 | Sequence 113, App |
| 108 | 34 | 66.7 | 553 | 2 | US-09-688-489-113 | Sequence 113, App |
| 109 | 34 | 66.7 | 553 | 2 | US-09-679-426-113 | Sequence 113, App |
| 110 | 34 | 66.7 | 553 | 2 | US-09-759-143-113 | Sequence 113, App |
| 111 | 34 | 66.7 | 553 | 2 | US-09-651-236-113 | Sequence 113, App |
| 112 | 34 | 66.7 | 553 | 2 | US-09-030-606-113 | Sequence 113, App |
| 113 | 34 | 66.7 | 553 | 2 | US-09-657-279-113 | Sequence 113, App |
| 114 | 34 | 66.7 | 553 | 2 | US-10-012-896-113 | Sequence 113, App |
| 115 | 34 | 66.7 | 654 | 2 | US-09-252-991A-20916 | Sequence 20916, A |
| 116 | 34 | 66.7 | 1020 | 2 | US-09-252-991A-28870 | Sequence 28870, A |
| 117 | 33.5 | 65.7 | 114 | 2 | US-09-252-991A-31192 | Sequence 31192, A |
| 118 | 33.5 | 65.7 | 697 | 2 | US-09-252-991A-24009 | Sequence 24009, A |
| 119 | 33 | 64.7 | 9 | 2 | US-08-159-339A-236 | Sequence 236, App |
| 120 | 33 | 64.7 | 12 | 1 | US-07-909-122-1 | Sequence 1, Appli |
| 121 | 33 | 64.7 | 23 | 2 | US-09-860-793-8 | Sequence 8, Appli |
| 122 | 33 | 64.7 | 38 | 2 | US-08-469-260A-569 | Sequence 569, App |
| 123 | 33 | 64.7 | 38 | 2 | US-08-488-446-569 | Sequence 569, App |
| 124 | 33 | 64.7 | 38 | 2 | US-08-467-344A-569 | Sequence 569, App |
| 125 | 33 | 64.7 | 38 | 2 | US-08-424-550B-569 | Sequence 569, App |
| 126 | 33 | 64.7 | 67 | 2 | US-09-543-681A-4382 | Sequence 4382, Ap |
| 127 | 33 | 64.7 | 105 | 2 | US-09-084-303B-7 | Sequence 7, Appli |
| 128 | 33 | 64.7 | 105 | 2 | US-09-205-658-119 | Sequence 119, App |
| 129 | 33 | 64.7 | 110 | 2 | US-09-252-991A-21148 | Sequence 21148, A |
| 130 | 33 | 64.7 | 131 | 2 | US-09-270-767-39085 | Sequence 39085, A |
| 131 | 33 | 64.7 | 131 | 2 | US-09-270-767-54302 | Sequence 54302, A |
| 132 | 33 | 64.7 | 134 | 2 | US-09-252-991A-19689 | Sequence 19689, A |
| 133 | 33 | 64.7 | 140 | 2 | US-09-252-991A-21038 | Sequence 21038, A |
| 134 | 33 | 64.7 | 140 | 2 | US-09-270-767-35721 | Sequence 35721, A |
| 135 | 33 | 64.7 | 140 | 2 | US-09-270-767-50938 | Sequence 50938, A |
| 136 | 33 | 64.7 | 141 | 2 | US-09-252-991A-24137 | Sequence 24137, A |
| 137 | 33 | 64.7 | 144 | 2 | US-09-252-991A-25786 | Sequence 25786, A |
| 138 | 33 | 64.7 | 148 | 2 | US-09-252-991A-20235 | Sequence 20235, A |
| 139 | 33 | 64.7 | 150 | 2 | US-09-252-991A-29818 | Sequence 29818, A |
| 140 | 33 | 64.7 | 154 | 2 | US-09-252-991A-25612 | Sequence 25612, A |
| 141 | 33 | 64.7 | 156 | 2 | US-09-252-991A-23987 | Sequence 23987, A |
| 142 | 33 | 64.7 | 156 | 2 | US-09-252-991A-26582 | Sequence 26582, A |
| 143 | 33 | 64.7 | 156 | 2 | US-09-252-991A-32116 | Sequence 32116, A |
| 144 | 33 | 64.7 | 161 | 2 | US-09-252-991A-19123 | Sequence 19123, A |
| 145 | 33 | 64.7 | 173 | 2 | US-09-252-991A-20624 | Sequence 20624, A |
| 146 | 33 | 64.7 | 175 | 2 | US-09-252-991A-16749 | Sequence 16749, A |
| 147 | 33 | 64.7 | 181 | 2 | US-09-252-991A-30481 | Sequence 30481, A |
| 148 | 33 | 64.7 | 192 | 2 | US-09-252-991A-27382 | Sequence 27382, A |
| 149 | 33 | 64.7 | 212 | 2 | US-09-252-991A-29138 | Sequence 29138, A |
| 150 | 33 | 64.7 | 224 | 2 | US-09-252-991A-18341 | Sequence 18341, A |
| 151 | 33 | 64.7 | 233 | 2 | US-09-252-991A-18455 | Sequence 18455, A |
| 152 | 33 | 64.7 | 254 | 2 | US-09-252-991A-21292 | Sequence 21292, A |
| 153 | 33 | 64.7 | 254 | 2 | US-09-252-991A-26502 | Sequence 26502, A |
| 154 | 33 | 64.7 | 272 | 2 | US-09-252-991A-29415 | Sequence 29415, A |
| 155 | 33 | 64.7 | 337 | 2 | US-09-489-039A-12698 | Sequence 12698, A |
| 156 | 33 | 64.7 | 340 | 2 | US-09-252-991A-18667 | Sequence 18667, A |
| 157 | 33 | 64.7 | 351 | 2 | US-09-252-991A-21647 | Sequence 21647, A |
| 158 | 33 | 64.7 | 377 | 2 | US-09-252-991A-19705 | Sequence 19705, A |
| 159 | 33 | 64.7 | 399 | 2 | US-09-252-991A-21997 | Sequence 21997, A |
| 160 | 33 | 64.7 | 399 | 2 | US-09-489-039A-9456 | Sequence 9456, Ap |
| 161 | 33 | 64.7 | 428 | 2 | US-09-902-540-13748 | Sequence 13748, A |
| 162 | 33 | 64.7 | 461 | 2 | US-09-252-991A-24456 | Sequence 24456, A |
| 163 | 33 | 64.7 | 532 | 2 | US-09-252-991A-25769 | Sequence 25769, A |
| 164 | 33 | 64.7 | 536 | 2 | US-09-252-991A-18140 | Sequence 18140, A |
| 165 | 33 | 64.7 | 597 | 2 | US-09-252-991A-24252 | Sequence 24252, A |
| 166 | 33 | 64.7 | 611 | 2 | US-09-252-991A-17597 | Sequence 17597, A |
| 167 | 33 | 64.7 | 1487 | 1 | US-08-760-489-2 | Sequence 2, Appli |
| 168 | 33 | 64.7 | 1487 | 1 | US-08-760-489-4 | Sequence 4, Appli |
| 169 | 33 | 64.7 | 1487 | 2 | US-09-185-373-2 | Sequence 2, Appli |
| 170 | 33 | 64.7 | 1487 | 2 | US-09-185-373-4 | Sequence 4, Appli |
| 171 | 32.5 | 63.7 | 123 | 2 | US-09-270-767-60774 | Sequence 60774, A |
| 172 | 32.5 | 63.7 | 155 | 2 | US-09-270-767-45281 | Sequence 45281, A |
| 173 | 32 | 62.7 | 62 | 2 | US-09-489-039A-11149 | Sequence 11149, A |
| 174 | 32 | 62.7 | 70 | 2 | US-09-270-767-36326 | Sequence 36326, A |
| 175 | 32 | 62.7 | 70 | 2 | US-09-270-767-51543 | Sequence 51543, A |
| 176 | 32 | 62.7 | 92 | 2 | US-09-513-999C-5616 | Sequence 5616, Ap |
| 177 | 32 | 62.7 | 103 | 2 | US-09-191-647-6 | Sequence 6, Appli |
| 178 | 32 | 62.7 | 103 | 2 | US-09-540-245A-6 | Sequence 6, Appli |
| 179 | 32 | 62.7 | 103 | 2 | US-09-540-153-6 | Sequence 6, Appli |
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| 181 | 32 | 62.7 | 103 | 2 | US-10-289-776-6 | Sequence 6, Appli |
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| 183 | 32 | 62.7 | 120 | 2 | US-09-252-991A-28393 | Sequence 28393, A |
| 184 | 32 | 62.7 | 138 | 2 | US-09-252-991A-32675 | Sequence 32675, A |
| 185 | 32 | 62.7 | 139 | 2 | US-09-252-991A-30429 | Sequence 30429, A |
| 186 | 32 | 62.7 | 144 | 2 | US-09-252-991A-26540 | Sequence 26540, A |
| 187 | 32 | 62.7 | 157 | 2 | US-09-252-991A-18778 | Sequence 18778, A |
| 188 | 32 | 62.7 | 160 | 2 | US-09-252-991A-24477 | Sequence 24477, A |
| 189 | 32 | 62.7 | 162 | 2 | US-09-489-039A-8176 | Sequence 8176, Ap |
| 190 | 32 | 62.7 | 163 | 2 | US-09-387-286-13 | Sequence 13, Appl |
| 191 | 32 | 62.7 | 164 | 2 | US-09-252-991A-31552 | Sequence 31552, A |
| 192 | 32 | 62.7 | 169 | 2 | US-09-252-991A-30563 | Sequence 30563, A |
| 193 | 32 | 62.7 | 173 | 2 | US-09-252-991A-17084 | Sequence 17084, A |
| 194 | 32 | 62.7 | 174 | 2 | US-09-383-586-12 | Sequence 12, Appl |
| 195 | 32 | 62.7 | 174 | 2 | US-09-823-038A-12 | Sequence 12, Appl |
| 196 | 32 | 62.7 | 176 | 1 | US-08-726-525-2 | Sequence 2, Appli |
| 197 | 32 | 62.7 | 176 | 1 | US-08-487-942-2 | Sequence 2, Appli |
| 198 | 32 | 62.7 | 176 | 1 | US-08-726-036A-2 | Sequence 2, Appli |
| 199 | 32 | 62.7 | 176 | 2 | US-09-083-516-2 | Sequence 2, Appli |
| 200 | 32 | 62.7 | 176 | 2 | US-09-884-319A-2 | Sequence 2, Appli |
| 201 | 32 | 62.7 | 178 | 2 | US-09-252-991A-23975 | Sequence 23975, A |
| 202 | 32 | 62.7 | 179 | 2 | US-09-252-991A-24524 | Sequence 24524, A |
| 203 | 32 | 62.7 | 187 | 2 | US-09-252-991A-28834 | Sequence 28834, A |
| 204 | 32 | 62.7 | 239 | 2 | US-09-270-767-59887 | Sequence 59887, A |
| 205 | 32 | 62.7 | 248 | 2 | US-09-252-991A-29249 | Sequence 29249, A |
| 206 | 32 | 62.7 | 250 | 2 | US-09-252-991A-32147 | Sequence 32147, A |
| 207 | 32 | 62.7 | 265 | 2 | US-09-199-637A-369 | Sequence 369, App |
| 208 | 32 | 62.7 | 265 | 2 | US-09-252-991A-21436 | Sequence 21436, A |
| 209 | 32 | 62.7 | 266 | 2 | US-10-104-047-3891 | Sequence 3891, Ap |
| 210 | 32 | 62.7 | 267 | 2 | US-09-107-532A-5683 | Sequence 5683, Ap |
| 211 | 32 | 62.7 | 296 | 2 | US-09-252-991A-22293 | Sequence 22293, A |
| 212 | 32 | 62.7 | 328 | 2 | US-09-252-991A-21969 | Sequence 21969, A |
| 213 | 32 | 62.7 | 333 | 2 | US-09-252-991A-25991 | Sequence 25991, A |
| 214 | 32 | 62.7 | 341 | 2 | US-09-252-991A-28938 | Sequence 28938, A |
| 215 | 32 | 62.7 | 363 | 2 | US-09-489-039A-8168 | Sequence 8168, Ap |
| 216 | 32 | 62.7 | 365 | 2 | US-09-252-991A-20176 | Sequence 20176, A |
| 217 | 32 | 62.7 | 374 | 2 | US-09-252-991A-29999 | Sequence 29999, A |
| 218 | 32 | 62.7 | 375 | 2 | US-09-622-439-2 | Sequence 2, Appli |
| 219 | 32 | 62.7 | 375 | 2 | US-10-318-142-2 | Sequence 2, Appli |
| 220 | 32 | 62.7 | 375 | 2 | US-09-875-076-16 | Sequence 16, Appl |
| 221 | 32 | 62.7 | 414 | 2 | US-09-252-991A-31151 | Sequence 31151, A |
| 222 | 32 | 62.7 | 426 | 2 | US-09-252-991A-32191 | Sequence 32191, A |
| 223 | 32 | 62.7 | 433 | 2 | US-09-252-991A-24380 | Sequence 24380, A |
| 224 | 32 | 62.7 | 480 | 2 | US-09-252-991A-17687 | Sequence 17687, A |
| 225 | 32 | 62.7 | 515 | 1 | US-08-194-338-3 | Sequence 3, Appli |
| 226 | 32 | 62.7 | 515 | 1 | US-08-444-734A-7 | Sequence 7, Appli |
| 227 | 32 | 62.7 | 515 | 1 | US-08-406-855A-22 | Sequence 22, Appl |
| 228 | 32 | 62.7 | 515 | 2 | US-09-206-899-22 | Sequence 22, Appl |
| 229 | 32 | 62.7 | 515 | 2 | US-09-688-415-10 | Sequence 10, Appl |
| 230 | 32 | 62.7 | 521 | 2 | US-09-252-991A-18119 | Sequence 18119, A |
| 231 | 32 | 62.7 | 572 | 2 | US-09-252-991A-17898 | Sequence 17898, A |
| 232 | 32 | 62.7 | 592 | 2 | US-09-252-991A-17167 | Sequence 17167, A |
| 233 | 32 | 62.7 | 622 | 2 | US-09-270-767-44449 | Sequence 44449, A |
| 234 | 32 | 62.7 | 710 | 2 | US-09-902-540-16023 | Sequence 16023, A |
| 235 | 32 | 62.7 | 862 | 2 | US-09-315-861-2 | Sequence 2, Appli |
| 236 | 32 | 62.7 | 862 | 2 | US-09-398-395A-44 | Sequence 44, Appl |
| 237 | 32 | 62.7 | 862 | 2 | US-09-887-586A-44 | Sequence 44, Appl |
| 238 | 32 | 62.7 | 862 | 2 | US-09-895-752-44 | Sequence 44, Appl |
| 239 | 32 | 62.7 | 862 | 2 | US-09-903-012B-44 | Sequence 44, Appl |
| 240 | 32 | 62.7 | 862 | 2 | US-09-593-253-2 | Sequence 2, Appli |
| 241 | 32 | 62.7 | 862 | 2 | US-09-900-797-44 | Sequence 44, Appl |
| 242 | 32 | 62.7 | 862 | 2 | US-09-893-820-44 | Sequence 44, Appl |
| 243 | 32 | 62.7 | 862 | 2 | US-10-041-007-41 | Sequence 41, Appl |
| 244 | 32 | 62.7 | 1386 | 2 | US-09-252-991A-28587 | Sequence 28587, A |
| 245 | 32 | 62.7 | 1523 | 2 | US-09-182-024A-2 | Sequence 2, Appli |
| 246 | 32 | 62.7 | 1523 | 2 | US-10-012-231A-198 | Sequence 198, App |

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| 247 | 32 | 62.7 | 1523 | 2 | US-10-015-389A-198 | Sequence 198, App |
| 248 | 32 | 62.7 | 1523 | 2 | US-10-006-768A-198 | Sequence 198, App |
| 249 | 32 | 62.7 | 1523 | 2 | US-10-015-671A-198 | Sequence 198, App |
| 250 | 32 | 62.7 | 1523 | 2 | US-10-015-393A-198 | Sequence 198, App |
| 251 | 32 | 62.7 | 1523 | 2 | US-10-011-833A-198 | Sequence 198, App |
| 252 | 32 | 62.7 | 1523 | 2 | US-10-006-041A-198 | Sequence 198, App |
| 253 | 32 | 62.7 | 1523 | 2 | US-10-012-064A-198 | Sequence 198, App |
| 254 | 32 | 62.7 | 1905 | 2 | US-09-964-956-44 | Sequence 44, Appl |
| 255 | 31.5 | 61.8 | 60 | 2 | US-09-252-991A-27289 | Sequence 27289, A |
| 256 | 31.5 | 61.8 | 221 | 2 | US-09-252-991A-18193 | Sequence 18193, A |
| 257 | 31.5 | 61.8 | 820 | 1 | US-08-374-483-2 | Sequence 2, Appli |
| 258 | 31.5 | 61.8 | 820 | 1 | US-08-374-483-5 | Sequence 5, Appli |
| 259 | 31 | 60.8 | 27 | 1 | US-07-789-913-21 | Sequence 21, Appl |
| 260 | 31 | 60.8 | 44 | 2 | US-09-270-767-58297 | Sequence 58297, A |
| 261 | 31 | 60.8 | 47 | 1 | US-08-660-789-6 | Sequence 6, Appli |
| 262 | 31 | 60.8 | 47 | 2 | US-09-074-114-6 | Sequence 6, Appli |
| 263 | 31 | 60.8 | 60 | 2 | US-09-082-358B-25 | Sequence 25, Appl |
| 264 | 31 | 60.8 | 60 | 2 | US-09-082-358B-33 | Sequence 33, Appl |
| 265 | 31 | 60.8 | 70 | 2 | US-09-248-796A-22458 | Sequence 22458, A |
| 266 | 31 | 60.8 | 78 | 2 | US-09-252-991A-30290 | Sequence 30290, A |
| 267 | 31 | 60.8 | 96 | 2 | US-09-248-796A-18136 | Sequence 18136, A |
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ALIGNMENTS

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RESULT 1
US-08-934-915-167
; Sequence 167, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  167:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  21 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-167

  Query Match             100.0%;  Score 51;  DB 1;  Length 21;
  Best Local Similarity   100.0%;  Pred. No. 0.24;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db          9 CCRSSRTRR 17


RESULT 2
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
;  APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
;  TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 FC
;  TITLE OF INVENTION:  TRANSCRIPTIONAL REGULATION
;  FILE REFERENCE: N73477C GCW
;  CURRENT APPLICATION NUMBER: US/09/701,080C
;  CURRENT FILING DATE:  2001-02-27
;  PRIOR APPLICATION NUMBER: GB 9811303.8
;  PRIOR FILING DATE: 1998-05-26
;  PRIOR APPLICATION NUMBER: GB 9900157.0
;  PRIOR FILING DATE: 1999-01-05
;  NUMBER OF SEQ ID NOS: 36
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-09-701-080C-18

  Query Match             100.0%;  Score 51;  DB 2;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 1.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        139 CCRSSRTRR 147


RESULT 3
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-2
```

```
  Query Match             100.0%;  Score 51;  DB 2;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 1.3;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        146 CCRSSRTRR 154


RESULT 4
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-3

  Query Match             100.0%;  Score 51;  DB 1;  Length 162;
  Best Local Similarity   100.0%;  Pred. No. 1.3;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        146 CCRSSRTRR 154


RESULT 5
US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-4

  Query Match             100.0%;  Score 51;  DB 1;  Length 162;
  Best Local Similarity   100.0%;  Pred. No. 1.3;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        146 CCRSSRTRR 154


RESULT 6
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;    LENGTH: 172
;    TYPE: PRT
;    ORGANISM: Artificial Sequence
;    FEATURE:
;    OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

  Query Match             100.0%;  Score 51;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 1.4;
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```
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db         84 CCRSSRTRR 92


RESULT 7
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-12

  Query Match             100.0%;  Score 51;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 1.4;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db         84 CCRSSRTRR 92


RESULT 8
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
;  APPLICANT:  KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION:  ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE:  017753-122
;  CURRENT APPLICATION NUMBER: US/09/462,993
;  CURRENT FILING DATE:  2000-04-17
;  PRIOR APPLICATION NUMBER:  PCT/FR98/01576
;  PRIOR FILING DATE:  1998-07-17
;  PRIOR APPLICATION NUMBER:  FR 97/09152
;  PRIOR FILING DATE:  1997-07-18
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

  Query Match             100.0%;  Score 51;  DB 2;  Length 243;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        169 CCRSSRTRR 177


RESULT 9
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

  Query Match             100.0%;  Score 51;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 1.9;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        146 CCRSSRTRR 154


RESULT 10
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-10

  Query Match             100.0%;  Score 51;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 1.9;
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```
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        146 CCRSSRTRR 154


RESULT 11
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 51;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 1.9;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        146 CCRSSRTRR 154


RESULT 12
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-4

  Query Match             100.0%;  Score 51;  DB 2;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        252 CCRSSRTRR 260


RESULT 13
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-10

  Query Match             100.0%;  Score 51;  DB 2;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 2.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        271 CCRSSRTRR 279


RESULT 14
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-6

  Query Match             100.0%;  Score 51;  DB 2;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 2.5;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        252 CCRSSRTRR 260


RESULT 15
US-09-485-885-14
```

```
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-14

  Query Match             100.0%;  Score 51;  DB 2;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 2.6;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        271 CCRSSRTRR 279


RESULT 16
US-08-311-731A-381
; Sequence 381, Application US/08311731A
; Patent No. 6583266
;  GENERAL INFORMATION:
;    APPLICANT:  SMITH, DOUGLAS
;    APPLICANT:  MAO, JEN-I
;    TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES
;    TITLE OF INVENTION:  RELATING TO MYCOBACTERIUM TUBERCULOSIS AND LAPRAE FOR
;    TITLE OF INVENTION:  DIAGNOSTICS AND THERAPEUTICS
;    NUMBER OF SEQUENCES:  411
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  WOLF, GREENFIELD & SACKS, P.C.
;      STREET:  600 ATLANTIC AVENUE
;      CITY:  BOSTON
;      STATE:  MASSACHUSETTS
;      COUNTRY:  USA
;      ZIP:  02210
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/311,731A
;      FILING DATE:
;      CLASSIFICATION:  530
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  GATES, EDWARD R.
;      REGISTRATION NUMBER:  31,616
;      REFERENCE/DOCKET NUMBER:  C0044/7125
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617/720-3500
;      TELEFAX:  617/720-2441
;  INFORMATION FOR SEQ ID NO:  381:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  171 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  YES
;    ORIGINAL SOURCE:
;      ORGANISM:  Mycobacterium leprae
US-08-311-731A-381

  Query Match             86.3%;  Score 44;  DB 2;  Length 171;
  Best Local Similarity   88.9%;  Pred. No. 14;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              ||||| |||
Db          4 CCRSSYTRR 12


RESULT 17
US-09-252-991A-33122
; Sequence 33122, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 33122
;   LENGTH: 230
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-33122

  Query Match             80.4%;  Score 41;  DB 2;  Length 230;
  Best Local Similarity   87.5%;  Pred. No. 48;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTR 8
              |||| |||
Db         97 CCRSCRTR 104


RESULT 18
US-09-477-962-125
; Sequence 125, Application US/09477962
; Patent No. 6927286
; GENERAL INFORMATION:
;  APPLICANT: SHEN, BEN
;  APPLICANT:  DU, LIANGCHENG
;  APPLICANT:  SANCHEZ, CESAR
;  APPLICANT:  CHEN, MEI
;  APPLICANT:  EDWARDS, DANIEL J.
;  TITLE OF INVENTION: BLEOMYCIN GENE CLUSTER COMPONENTS AND THEIR USES
;  FILE REFERENCE: 407T-895820US
;  CURRENT APPLICATION NUMBER: US/09/477,962
;  CURRENT FILING DATE:  2000-01-05
;  PRIOR APPLICATION NUMBER: 60/115,435
;  PRIOR FILING DATE: 1999-01-06
;  PRIOR APPLICATION NUMBER: 60/118,848
;  PRIOR FILING DATE: 1999-02-05
;  NUMBER OF SEQ ID NOS: 133
;  SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 125
;   LENGTH: 337
;   TYPE: PRT
;   ORGANISM: Streptomyces verticillus
;   FEATURE:
;   OTHER INFORMATION: ORF40
US-09-477-962-125
```

```
  Query Match             80.4%;  Score 41;  DB 2;  Length 337;
  Best Local Similarity   77.8%;  Pred. No. 65;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              ||| || ||
Db        118 CCRGSRDRR 126


RESULT 19
US-09-252-991A-22787
; Sequence 22787, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 22787
;   LENGTH: 109
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-22787

  Query Match             78.4%;  Score 40;  DB 2;  Length 109;
  Best Local Similarity   77.8%;  Pred. No. 36;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              ||| || ||
Db         65 CCRRSRRRR 73


RESULT 20
US-09-252-991A-30039
; Sequence 30039, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 30039
;   LENGTH: 953
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30039

  Query Match             76.5%;  Score 39;  DB 2;  Length 953;
  Best Local Similarity   87.5%;  Pred. No. 3e+02;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTR 8
              |||||| |
Db        929 CCRSSRHR 936


RESULT 21
US-09-270-767-36971
; Sequence 36971, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 36971
;   LENGTH: 161
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
;   FEATURE:
;   OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-36971

  Query Match             74.5%;  Score 38;  DB 2;  Length 161;
  Best Local Similarity   66.7%;  Pred. No. 97;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              || : ||||
Db         88 CCSAXRTRR 96


RESULT 22
US-09-270-767-52188
; Sequence 52188, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 52188
;   LENGTH: 161
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
;   FEATURE:
;   OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-52188

  Query Match             74.5%;  Score 38;  DB 2;  Length 161;
  Best Local Similarity   66.7%;  Pred. No. 97;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              || : ||||
Db         88 CCSAXRTRR 96


RESULT 23
US-09-949-016-8615
; Sequence 8615, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
```

; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8615
; LENGTH: 350
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-8615

Query Match 74.5%; Score 38; DB 2; Length 350;
Best Local Similarity 66.7%; Pred. No. 1.8e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CCRSSRTRR 9
|| |::|||
Db 16 CCSSTQTRR 24

RESULT 24
US-09-252-991A-30052
; Sequence 30052, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 30052
; LENGTH: 719
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30052

Query Match 74.5%; Score 38; DB 2; Length 719;
Best Local Similarity 66.7%; Pred. No. 3.3e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CCRSSRTRR 9
||::|| ||
Db 690 CCQASRRRR 698

RESULT 25
US-09-252-991A-25071
; Sequence 25071, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 25071
; LENGTH: 87
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-25071

Query Match 72.5%; Score 37; DB 2; Length 87;
Best Local Similarity 77.8%; Pred. No. 82;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CCRSSRTRR 9
||||| | |
Db 53 CCRSSATWR 61

RESULT 26
US-09-287-849-35
; Sequence 35, Application US/09287849
; Patent No. 6627198
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Alderson, Mark
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Fusion Protiens of Mycobacterium tuberculosis Antigens
; TITLE OF INVENTION: and Their Uses
; FILE REFERENCE: 014058-009020US
; CURRENT APPLICATION NUMBER: US/09/287,849
; CURRENT FILING DATE: 1999-04-07
; PRIOR APPLICATION NUMBER: US 08/818,112
; PRIOR FILING DATE: 1997-03-13
; PRIOR APPLICATION NUMBER: US 08/942,578
; PRIOR FILING DATE: 1997-10-01
; PRIOR APPLICATION NUMBER: US 09/025,197
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 09/056,556
; PRIOR FILING DATE: 1998-04-07
; PRIOR APPLICATION NUMBER: US 09/223,040
; PRIOR FILING DATE: 1998-12-30
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 93
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:peptide of
US-09-287-849-35

Query Match 72.5%; Score 37; DB 2; Length 93;
Best Local Similarity 66.7%; Pred. No. 87;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 CCRSSRTRR 9
||| | ||
Db 45 CCRQQRQRR 53

RESULT 27
US-09-252-991A-29444
; Sequence 29444, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 29444
; LENGTH: 109
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-29444

```
  Query Match             72.5%;  Score 37;  DB 2;  Length 109;
  Best Local Similarity   77.8%;  Pred. No. 99;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              ||||| | |
Db         90 CCRSSPTPR 98


RESULT 28
US-09-252-991A-29076
; Sequence 29076, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 29076
;   LENGTH: 113
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-29076

  Query Match             72.5%;  Score 37;  DB 2;  Length 113;
  Best Local Similarity   85.7%;  Pred. No. 1e+02;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRT 7
              ||||||:
Db         50 CCRSSRS 56


RESULT 29
US-09-252-991A-21156
; Sequence 21156, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 21156
;   LENGTH: 136
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21156

  Query Match             72.5%;  Score 37;  DB 2;  Length 136;
  Best Local Similarity   75.0%;  Pred. No. 1.2e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTR 8
              || :||||
Db         68 CCSASRTR 75


RESULT 30
US-09-489-039A-12930
; Sequence 12930, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
;  APPLICANT:  Gary Breton et. al
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
;  TITLE OF INVENTION:  PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  2709.2004001
;  CURRENT APPLICATION NUMBER: US/09/489,039A
;  CURRENT FILING DATE:  2000-01-27
;  PRIOR APPLICATION NUMBER:  US 60/117,747
;  PRIOR FILING DATE:  1999-01-29
;  NUMBER OF SEQ ID NOS:  14342
; SEQ ID NO 12930
;   LENGTH: 138
;   TYPE: PRT
;   ORGANISM: Klebsiella pneumoniae
US-09-489-039A-12930

  Query Match             72.5%;  Score 37;  DB 2;  Length 138;
  Best Local Similarity   75.0%;  Pred. No. 1.2e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTR 8
              |||:|| |
Db         34 CCRNSRRR 41


RESULT 31
US-09-252-991A-23153
; Sequence 23153, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 23153
;   LENGTH: 145
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-23153

  Query Match             72.5%;  Score 37;  DB 2;  Length 145;
  Best Local Similarity   66.7%;  Pred. No. 1.2e+02;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              || |:|:||
Db        136 CCGSARSRR 144


RESULT 32
US-09-252-991A-30960
; Sequence 30960, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
```

```
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 30960
;   LENGTH: 154
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30960

  Query Match             72.5%;  Score 37;  DB 2;  Length 154;
  Best Local Similarity   100.0%;  Pred. No. 1.3e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CRSSRTR 8
              |||||||
Db         45 CRSSRTR 51


RESULT 33
US-09-270-767-32689
; Sequence 32689, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 32689
;   LENGTH: 207
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-32689

  Query Match             72.5%;  Score 37;  DB 2;  Length 207;
  Best Local Similarity   85.7%;  Pred. No. 1.7e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CCRSSRT 7
              ||| |||
Db        106 CCRDSRT 112


RESULT 34
US-09-270-767-47906
; Sequence 47906, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 47906
;   LENGTH: 207
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-47906

  Query Match             72.5%;  Score 37;  DB 2;  Length 207;
  Best Local Similarity   85.7%;  Pred. No. 1.7e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CCRSSRT 7
              ||| |||
Db        106 CCRDSRT 112


RESULT 35
US-09-252-991A-27914
; Sequence 27914, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 27914
;   LENGTH: 309
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-27914

  Query Match             72.5%;  Score 37;  DB 2;  Length 309;
  Best Local Similarity   66.7%;  Pred. No. 2.3e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              ||| :|| |
Db         17 CCRHARTTR 25


RESULT 36
US-09-252-991A-26229
; Sequence 26229, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 26229
;   LENGTH: 633
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-26229

  Query Match             72.5%;  Score 37;  DB 2;  Length 633;
  Best Local Similarity   66.7%;  Pred. No. 4.1e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              || | |:||
Db        119 CCSSERSRR 127


RESULT 37
US-10-141-645-72
; Sequence 72, Application US/10141645
; Patent No. 6713078
; GENERAL INFORMATION:
;  APPLICANT: Robert Lehrer
;  APPLICANT:  Alan Waring
;  APPLICANT:  Alexander Cole
;  APPLICANT:  Teresa Hong
;  TITLE OF INVENTION: Retrocyclins - Antiviral and
;  TITLE OF INVENTION:  Antimicrobial Peptides
;  FILE REFERENCE: UCLA-001CIP
;  CURRENT APPLICATION NUMBER: US/10/141,645
;  CURRENT FILING DATE:  2002-05-06
```

; PRIOR APPLICATION NUMBER: 60/284,855
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: Unassigned
; PRIOR FILING DATE: 2002-04-18
; NUMBER OF SEQ ID NOS: 125
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 72
; LENGTH: 141
; TYPE: PRT
; ORGANISM: Rhesus monkey
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: 113
; OTHER INFORMATION: Xaa = Any Amino Acid
US-10-141-645-72

Query Match 70.6%; Score 36; DB 2; Length 141;
Best Local Similarity 55.6%; Pred. No. 1.7e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CCRSSRTRR 9
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Db 95 CCRASRIKK 103

RESULT 38
US-10-141-645-73
; Sequence 73, Application US/10141645
; Patent No. 6713078
; GENERAL INFORMATION:
; APPLICANT: Robert Lehrer
; APPLICANT: Alan Waring
; APPLICANT: Alexander Cole
; APPLICANT: Teresa Hong
; TITLE OF INVENTION: Retrocyclins - Antiviral and
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: UCLA-001CIP
; CURRENT APPLICATION NUMBER: US/10/141,645
; CURRENT FILING DATE: 2002-05-06
; PRIOR APPLICATION NUMBER: 60/284,855
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: Unassigned
; PRIOR FILING DATE: 2002-04-18
; NUMBER OF SEQ ID NOS: 125
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 73
; LENGTH: 141
; TYPE: PRT
; ORGANISM: Pig-tailed macaque
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: 113
; OTHER INFORMATION: Xaa = Any Amino Acid
US-10-141-645-73

Query Match 70.6%; Score 36; DB 2; Length 141;
Best Local Similarity 55.6%; Pred. No. 1.7e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CCRSSRTRR 9
||||:|| ::
Db 95 CCRASRIKK 103

RESULT 39
US-09-252-991A-26200
; Sequence 26200, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 26200
; LENGTH: 153
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-26200

Query Match 70.6%; Score 36; DB 2; Length 153;
Best Local Similarity 75.0%; Pred. No. 1.8e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CCRSSRTR 8
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Db 16 CCQSSSTR 23

RESULT 40
US-09-252-991A-24413
; Sequence 24413, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 24413
; LENGTH: 156
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24413

Query Match 70.6%; Score 36; DB 2; Length 156;
Best Local Similarity 66.7%; Pred. No. 1.8e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CCRSSRTRR 9
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Db 137 CCRSTACRR 145

RESULT 41
US-09-252-991A-28972
; Sequence 28972, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 28972
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-28972

Query Match 70.6%; Score 36; DB 2; Length 249;
Best Local Similarity 66.7%; Pred. No. 2.7e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CCRSSRTRR 9
||||:| ||
Db 94 CCRASPARR 102

RESULT 42
US-09-252-991A-24140
; Sequence 24140, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 24140
; LENGTH: 331
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24140

Query Match 70.6%; Score 36; DB 2; Length 331;
Best Local Similarity 66.7%; Pred. No. 3.4e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CCRSSRTRR 9
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Db 12 CCSSARRRR 20

RESULT 43
US-09-252-991A-21791
; Sequence 21791, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21791
; LENGTH: 446
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21791

Query Match 70.6%; Score 36; DB 2; Length 446;
Best Local Similarity 75.0%; Pred. No. 4.3e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CCRSSRTR 8
|||| | |
Db 9 CCRSGRRR 16

RESULT 44
US-09-252-991A-21662
; Sequence 21662, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21662
; LENGTH: 87
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21662

Query Match 68.6%; Score 35; DB 2; Length 87;
Best Local Similarity 87.5%; Pred. No. 1.6e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CRSSRTRR 9
| ||||||
Db 27 CGSSRTRR 34

RESULT 45
US-09-270-767-34477
; Sequence 34477, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 34477
; LENGTH: 90
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-34477

Query Match 68.6%; Score 35; DB 2; Length 90;
Best Local Similarity 66.7%; Pred. No. 1.6e+02;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 CCRSSRTRR 9
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Db 74 CCHSRRRRR 82

RESULT 46
US-09-270-767-49694
; Sequence 49694, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 49694

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;   LENGTH: 90
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
;   FEATURE:
;   OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-49694

  Query Match             68.6%;  Score 35;  DB 2;  Length 90;
  Best Local Similarity   66.7%;  Pred. No. 1.6e+02;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              || | | ||
Db         74 CCHSRRRRR 82


RESULT 47
US-09-252-991A-31561
; Sequence 31561, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 31561
;   LENGTH: 143
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-31561

  Query Match             68.6%;  Score 35;  DB 2;  Length 143;
  Best Local Similarity   66.7%;  Pred. No. 2.4e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              || :|| ||
Db         44 CCGTSRRRR 52


RESULT 48
US-09-949-016-11102
; Sequence 11102, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11102
;   LENGTH: 144
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-11102

  Query Match             68.6%;  Score 35;  DB 2;  Length 144;
  Best Local Similarity   55.6%;  Pred. No. 2.4e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||  |:|:
Db         84 CCRRKRSRK 92


RESULT 49
US-09-252-991A-17724
; Sequence 17724, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 17724
;   LENGTH: 147
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17724

  Query Match             68.6%;  Score 35;  DB 2;  Length 147;
  Best Local Similarity   75.0%;  Pred. No. 2.5e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTR 8
              || ||| |
Db        135 CCNSSRCR 142


RESULT 50
US-09-252-991A-24700
; Sequence 24700, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 24700
;   LENGTH: 150
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24700

  Query Match             68.6%;  Score 35;  DB 2;  Length 150;
  Best Local Similarity   75.0%;  Pred. No. 2.5e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTR 8
              ||| | ||
Db        103 CCRRSSTR 110


Search completed: May  5, 2006, 01:38:09
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OM protein - protein search, using sw model

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(without alignments)
55.139 Million cell updates/sec

Title: US-08-170-344-58
Perfect score: 51
Sequence: 1 CCRSSRTRR 9

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Gapop 10.0 , Gapext 0.5

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Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_Main:*
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
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| 1 | 51 | 100.0 | 20 | 5 | US-10-938-249-513 | Sequence 513, App |
| 2 | 51 | 100.0 | 24 | 4 | US-10-476-570-44 | Sequence 44, Appl |
| 3 | 51 | 100.0 | 151 | 4 | US-10-177-390-6 | Sequence 6, Appli |
| 4 | 51 | 100.0 | 151 | 5 | US-10-484-063-20 | Sequence 20, Appl |
| 5 | 51 | 100.0 | 151 | 5 | US-10-484-063-27 | Sequence 27, Appl |
| 6 | 51 | 100.0 | 158 | 5 | US-10-858-384-2 | Sequence 2, Appli |
| 7 | 51 | 100.0 | 158 | 5 | US-10-367-057-16 | Sequence 16, Appl |
| 8 | 51 | 100.0 | 158 | 6 | US-11-021-949-13 | Sequence 13, Appl |
| 9 | 51 | 100.0 | 171 | 4 | US-10-472-724-2 | Sequence 2, Appli |
| 10 | 51 | 100.0 | 243 | 6 | US-11-072-288-1 | Sequence 1, Appli |
| 11 | 51 | 100.0 | 266 | 3 | US-09-367-309A-1 | Sequence 1, Appli |
| 12 | 51 | 100.0 | 273 | 4 | US-10-000-903-4 | Sequence 4, Appli |
| 13 | 51 | 100.0 | 273 | 5 | US-10-899-771-4 | Sequence 4, Appli |
| 14 | 51 | 100.0 | 292 | 4 | US-10-000-903-10 | Sequence 10, Appl |
| 15 | 51 | 100.0 | 292 | 5 | US-10-899-771-10 | Sequence 10, Appl |
| 16 | 51 | 100.0 | 371 | 4 | US-10-000-903-6 | Sequence 6, Appli |
| 17 | 51 | 100.0 | 371 | 5 | US-10-899-771-6 | Sequence 6, Appli |
| 18 | 51 | 100.0 | 390 | 4 | US-10-000-903-14 | Sequence 14, Appl |
| 19 | 51 | 100.0 | 390 | 5 | US-10-899-771-14 | Sequence 14, Appl |
| 20 | 46 | 90.2 | 16 | 5 | US-10-484-063-9 | Sequence 9, Appli |
| 21 | 46 | 90.2 | 245 | 4 | US-10-425-114-65786 | Sequence 65786, A |
| 22 | 41 | 80.4 | 35 | 4 | US-10-424-599-245237 | Sequence 245237, |
| 23 | 41 | 80.4 | 66 | 4 | US-10-425-115-330614 | Sequence 330614, |
| 24 | 41 | 80.4 | 111 | 4 | US-10-437-963-135875 | Sequence 135875, |
| 25 | 41 | 80.4 | 124 | 4 | US-10-425-115-294572 | Sequence 294572, |
| 26 | 41 | 80.4 | 177 | 4 | US-10-425-114-42217 | Sequence 42217, A |
| 27 | 40 | 78.4 | 20 | 3 | US-09-855-604-101 | Sequence 101, App |
| 28 | 40 | 78.4 | 20 | 3 | US-09-855-604-101 | Sequence 101, App |
| 29 | 40 | 78.4 | 41 | 3 | US-09-855-604-93 | Sequence 93, Appl |
| 30 | 40 | 78.4 | 41 | 3 | US-09-855-604-93 | Sequence 93, Appl |
| 31 | 40 | 78.4 | 43 | 3 | US-09-397-945-213 | Sequence 213, App |
| 32 | 40 | 78.4 | 43 | 4 | US-10-653-595-213 | Sequence 213, App |
| 33 | 40 | 78.4 | 43 | 4 | US-10-425-115-304230 | Sequence 304230, |
| 34 | 40 | 78.4 | 87 | 4 | US-10-029-386-33740 | Sequence 33740, A |
| 35 | 40 | 78.4 | 87 | 4 | US-10-425-115-267647 | Sequence 267647, |
| 36 | 40 | 78.4 | 93 | 4 | US-10-767-701-49570 | Sequence 49570, A |
| 37 | 40 | 78.4 | 132 | 4 | US-10-437-963-154099 | Sequence 154099, |
| 38 | 40 | 78.4 | 137 | 3 | US-09-397-945-211 | Sequence 211, App |
| 39 | 40 | 78.4 | 137 | 4 | US-10-653-595-211 | Sequence 211, App |
| 40 | 39 | 76.5 | 102 | 4 | US-10-425-115-184761 | Sequence 184761, |
| 41 | 39 | 76.5 | 134 | 4 | US-10-437-963-181461 | Sequence 181461, |
| 42 | 39 | 76.5 | 146 | 4 | US-10-437-963-148427 | Sequence 148427, |
| 43 | 39 | 76.5 | 251 | 4 | US-10-437-963-160036 | Sequence 160036, |
| 44 | 39 | 76.5 | 478 | 4 | US-10-437-963-115033 | Sequence 115033, |
| 45 | 39 | 76.5 | 686 | 4 | US-10-437-963-196497 | Sequence 196497, |
| 46 | 38 | 74.5 | 118 | 4 | US-10-424-599-182287 | Sequence 182287, |
| 47 | 38 | 74.5 | 125 | 4 | US-10-425-114-67214 | Sequence 67214, A |
| 48 | 37 | 72.5 | 51 | 4 | US-10-437-963-160782 | Sequence 160782, |
| 49 | 37 | 72.5 | 66 | 4 | US-10-437-963-175256 | Sequence 175256, |
| 50 | 37 | 72.5 | 93 | 3 | US-09-287-849-35 | Sequence 35, Appl |
| 51 | 37 | 72.5 | 93 | 4 | US-10-359-460-35 | Sequence 35, Appl |
| 52 | 37 | 72.5 | 123 | 4 | US-10-425-115-345529 | Sequence 345529, |
| 53 | 37 | 72.5 | 128 | 4 | US-10-425-114-45386 | Sequence 45386, A |
| 54 | 37 | 72.5 | 165 | 4 | US-10-437-963-199754 | Sequence 199754, |
| 55 | 37 | 72.5 | 231 | 4 | US-10-437-963-105833 | Sequence 105833, |
| 56 | 37 | 72.5 | 248 | 4 | US-10-424-599-270059 | Sequence 270059, |
| 57 | 37 | 72.5 | 254 | 4 | US-10-425-114-47308 | Sequence 47308, A |
| 58 | 37 | 72.5 | 459 | 4 | US-10-425-115-232944 | Sequence 232944, |
| 59 | 37 | 72.5 | 513 | 6 | US-11-097-143-40851 | Sequence 40851, A |
| 60 | 36 | 70.6 | 46 | 4 | US-10-424-599-223467 | Sequence 223467, |
| 61 | 36 | 70.6 | 46 | 4 | US-10-425-115-250250 | Sequence 250250, |
| 62 | 36 | 70.6 | 51 | 4 | US-10-425-115-201623 | Sequence 201623, |
| 63 | 36 | 70.6 | 54 | 4 | US-10-437-963-145043 | Sequence 145043, |
| 64 | 36 | 70.6 | 61 | 4 | US-10-425-115-224352 | Sequence 224352, |
| 65 | 36 | 70.6 | 83 | 4 | US-10-437-963-199078 | Sequence 199078, |
| 66 | 36 | 70.6 | 85 | 4 | US-10-425-115-272184 | Sequence 272184, |
| 67 | 36 | 70.6 | 115 | 4 | US-10-425-115-249189 | Sequence 249189, |
| 68 | 36 | 70.6 | 141 | 4 | US-10-141-645-72 | Sequence 72, Appl |
| 69 | 36 | 70.6 | 141 | 4 | US-10-141-645-73 | Sequence 73, Appl |
| 70 | 36 | 70.6 | 142 | 4 | US-10-425-115-266009 | Sequence 266009, |
| 71 | 36 | 70.6 | 154 | 4 | US-10-437-963-152836 | Sequence 152836, |
| 72 | 36 | 70.6 | 158 | 4 | US-10-437-963-201063 | Sequence 201063, |
| 73 | 36 | 70.6 | 162 | 4 | US-10-425-115-206818 | Sequence 206818, |
| 74 | 36 | 70.6 | 169 | 4 | US-10-094-749-1824 | Sequence 1824, Ap |
| 75 | 36 | 70.6 | 180 | 4 | US-10-425-114-48783 | Sequence 48783, A |
| 76 | 36 | 70.6 | 188 | 4 | US-10-425-114-44271 | Sequence 44271, A |
| 77 | 36 | 70.6 | 225 | 4 | US-10-425-114-70682 | Sequence 70682, A |
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| 858 | 32 | 62.7 | 1523 | 4 | US-10-206-928-290 | Sequence 290, App |
| 859 | 32 | 62.7 | 1523 | 4 | US-10-207-914-290 | Sequence 290, App |
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| 864 | 32 | 62.7 | 1523 | 4 | US-10-015-499A-198 | Sequence 198, App |
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| 872 | 32 | 62.7 | 1523 | 4 | US-10-184-639-290 | Sequence 290, App |
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| 898 | 32 | 62.7 | 1523 | 4 | US-10-197-696-290 | Sequence 290, App |
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| 948 | 32 | 62.7 | 1523 | 4 | US-10-206-926-290 | Sequence 290, App |
| 949 | 32 | 62.7 | 1523 | 4 | US-10-206-927-290 | Sequence 290, App |
| 950 | 32 | 62.7 | 1523 | 4 | US-10-207-916-290 | Sequence 290, App |
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| 965 | 32 | 62.7 | 1523 | 4 | US-10-196-759-290 | Sequence 290, App |
| 966 | 32 | 62.7 | 1523 | 4 | US-10-015-869A-198 | Sequence 198, App |
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| 972 | 32 | 62.7 | 1523 | 4 | US-10-184-641-290 | Sequence 290, App |
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| 981 | 32 | 62.7 | 1523 | 4 | US-10-206-917-290 | Sequence 290, App |
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| 983 | 32 | 62.7 | 1523 | 4 | US-10-207-924-290 | Sequence 290, App |
| 984 | 32 | 62.7 | 1523 | 4 | US-10-208-028-290 | Sequence 290, App |
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| 988 | 32 | 62.7 | 1523 | 4 | US-10-180-553-290 | Sequence 290, App |
| 989 | 32 | 62.7 | 1523 | 4 | US-10-201-327-290 | Sequence 290, App |
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| 993 | 32 | 62.7 | 1523 | 4 | US-10-017-527A-198 | Sequence 198, App |
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| 995 | 32 | 62.7 | 1523 | 4 | US-10-183-016-290 | Sequence 290, App |
| 996 | 32 | 62.7 | 1523 | 4 | US-10-173-696-290 | Sequence 290, App |
| 997 | 32 | 62.7 | 1523 | 4 | US-10-013-913A-198 | Sequence 198, App |
| 998 | 32 | 62.7 | 1523 | 4 | US-10-125-923A-290 | Sequence 290, App |
| 999 | 32 | 62.7 | 1523 | 4 | US-10-176-491-290 | Sequence 290, App |
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ALIGNMENTS

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RESULT 1
US-10-938-249-513
; Sequence 513, Application US/10938249
; Publication No. US20050037969A1
; GENERAL INFORMATION:
;  APPLICANT: Lu, Peter S.
;  APPLICANT:  Rabinowitz, Joshua D.
;  APPLICANT:  Schweizer, Johannes
;  APPLICANT:  Arbor Vita Corporation
;  TITLE OF INVENTION: Molecular Interactions in Hematopoietic
;  TITLE OF INVENTION:  Cells
;  FILE REFERENCE: 020054-001130US
;  CURRENT APPLICATION NUMBER: US/10/938,249
;  CURRENT FILING DATE:  2004-09-10
;  PRIOR APPLICATION NUMBER: US/09/724,553
;  PRIOR FILING DATE: 2000-11-28
;  PRIOR APPLICATION NUMBER: US 60/134,114
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US 60/134,117
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US 60/134,118
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US 60/160,860
;  PRIOR FILING DATE: 1999-10-21
;  PRIOR APPLICATION NUMBER: US 60/162,498
;  PRIOR FILING DATE: 1999-10-29
;  PRIOR APPLICATION NUMBER: US 60/170,453
;  PRIOR FILING DATE: 1999-12-13
;  PRIOR APPLICATION NUMBER: US 60/176,195
;  PRIOR FILING DATE: 2000-01-14
;  PRIOR APPLICATION NUMBER: US 60/182,296
;  PRIOR FILING DATE: 2000-02-14
;  PRIOR APPLICATION NUMBER: US 60/196,267
;  PRIOR FILING DATE: 2000-04-11
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 543
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 513
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: HPV16 E6 C-terminal
US-10-938-249-513

  Query Match           100.0%;  Score 51;  DB 5;  Length 20;
  Best Local Similarity  100.0%;  Pred. No. 0.81;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db          8 CCRSSRTRR 16


RESULT 2
US-10-476-570-44
; Sequence 44, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 44
;   LENGTH: 24
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 135-158
US-10-476-570-44

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  Best Local Similarity  100.0%;  Pred. No. 0.93;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
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Db         12 CCRSSRTRR 20


RESULT 3
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
;  APPLICANT: Schuler, Gerold
;  APPLICANT:  N.V. Antwerps Innovatiecentrum
;  TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
;  TITLE OF INVENTION:  Polynucleotides by Electroporation
;  FILE REFERENCE: 021505wo/JH/ml
;  CURRENT APPLICATION NUMBER: US/10/177,390
;  CURRENT FILING DATE:  2002-06-20
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-177-390-6

  Query Match           100.0%;  Score 51;  DB 4;  Length 151;
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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
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Qy          1 CCRSSRTRR 9
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Db        139 CCRSSRTRR 147


RESULT 4
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-484-063-20

  Query Match             100.0%;  Score 51;  DB 5;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 4;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
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Db        139 CCRSSRTRR 147


RESULT 5
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-484-063-27

  Query Match             100.0%;  Score 51;  DB 5;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 4;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
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Db        139 CCRSSRTRR 147


RESULT 6
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-10-858-384-2

  Query Match             100.0%;  Score 51;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 4.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        146 CCRSSRTRR 154


RESULT 7
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
;  APPLICANT: Cuthill, Scott;
;  APPLICANT:  Jackson, Amanda;
;  APPLICANT:  Lewin, David A.;
;  APPLICANT:  Ooi, Chean Eng
;  TITLE OF INVENTION: Complexes and Methods of Using Same
;  FILE REFERENCE: 21402-559
;  CURRENT APPLICATION NUMBER: US/10/367,057
;  CURRENT FILING DATE:  2003-02-14
;  PRIOR APPLICATION NUMBER: 60/256,911
;  PRIOR FILING DATE: 2002-02-14
;  NUMBER OF SEQ ID NOS: 198
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 16
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-367-057-16

  Query Match             100.0%;  Score 51;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 4.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        146 CCRSSRTRR 154


RESULT 8
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
```

```
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

  Query Match             100.0%;  Score 51;  DB 6;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 4.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        146 CCRSSRTRR 154


RESULT 9
US-10-472-724-2
; Sequence 2, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
;  APPLICANT: Cid-Arregui, Angel
;  APPLICANT:  Zur Hausen, Harald
;  TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
;  FILE REFERENCE: 4121-154
;  CURRENT APPLICATION NUMBER: US/10/472,724
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP02/03271
;  PRIOR FILING DATE: 2002-03-22
;  PRIOR APPLICATION NUMBER: EP 01107271.7
;  PRIOR FILING DATE: 2001-03-23
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
;   LENGTH: 171
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

  Query Match             100.0%;  Score 51;  DB 4;  Length 171;
  Best Local Similarity   100.0%;  Pred. No. 4.4;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        151 CCRSSRTRR 159


RESULT 10
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
;  APPLICANT: KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE: 017753-122
;  CURRENT APPLICATION NUMBER: US/11/072,288
;  CURRENT FILING DATE:  2005-03-07
;  PRIOR APPLICATION NUMBER: US/09/462,993
;  PRIOR FILING DATE: 2000-04-17
;  PRIOR APPLICATION NUMBER: PCT/FR98/01576
;  PRIOR FILING DATE: 1998-07-17
;  PRIOR APPLICATION NUMBER: FR 97/09152
;  PRIOR FILING DATE: 1997-07-18
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

  Query Match             100.0%;  Score 51;  DB 6;  Length 243;
  Best Local Similarity   100.0%;  Pred. No. 5.8;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        169 CCRSSRTRR 177


RESULT 11
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 51;  DB 3;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 6.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        146 CCRSSRTRR 154


RESULT 12
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
```

```
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-4

  Query Match             100.0%;  Score 51;  DB 4;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 6.4;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        252 CCRSSRTRR 260


RESULT 13
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-4

  Query Match             100.0%;  Score 51;  DB 5;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 6.4;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        252 CCRSSRTRR 260


RESULT 14
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-10

  Query Match             100.0%;  Score 51;  DB 4;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 6.7;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        271 CCRSSRTRR 279


RESULT 15
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
;   OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-10

  Query Match             100.0%;  Score 51;  DB 5;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 6.7;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        271 CCRSSRTRR 279


RESULT 16
US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
```

```
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-6

  Query Match             100.0%;  Score 51;  DB 4;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 8.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        252 CCRSSRTRR 260


RESULT 17
US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
;   OTHER INFORMATION: virus type 16)
US-10-899-771-6

  Query Match             100.0%;  Score 51;  DB 5;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 8.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        252 CCRSSRTRR 260


RESULT 18
US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-14

  Query Match             100.0%;  Score 51;  DB 4;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 8.4;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        271 CCRSSRTRR 279


RESULT 19
US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
;   OTHER INFORMATION: pneumoniae and E6E7 fusion from Human papilloma
;   OTHER INFORMATION: virus type 16)
US-10-899-771-14

  Query Match             100.0%;  Score 51;  DB 5;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 8.4;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        271 CCRSSRTRR 279


RESULT 20
US-10-484-063-9
; Sequence 9, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
```

; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-9

Query Match 90.2%; Score 46; DB 5; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCRSSRTR 8
||||||||
Db 9 CCRSSRTR 16

RESULT 21
US-10-425-114-65786
; Sequence 65786, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 65786
; LENGTH: 245
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3245-175-H1_FLI.pep
US-10-425-114-65786

Query Match 90.2%; Score 46; DB 4; Length 245;
Best Local Similarity 88.9%; Pred. No. 32;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CCRSSRTRR 9
||| |||||
Db 4 CCRCSRTRR 12

RESULT 22
US-10-424-599-245237
; Sequence 245237, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 245237
; LENGTH: 35
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_6347C.1.pep
US-10-424-599-245237

Query Match 80.4%; Score 41; DB 4; Length 35;
Best Local Similarity 100.0%; Pred. No. 37;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCRSSRT 7
|||||||
Db 24 CCRSSRT 30

RESULT 23
US-10-425-115-330614
; Sequence 330614, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 330614
; LENGTH: 66
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_64620C.1.pep
US-10-425-115-330614

Query Match 80.4%; Score 41; DB 4; Length 66;
Best Local Similarity 77.8%; Pred. No. 61;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CCRSSRTRR 9
||| ||:||
Db 14 CCRISRSRR 22

RESULT 24
US-10-437-963-135875
; Sequence 135875, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 135875
; LENGTH: 111
; TYPE: PRT

```
;   ORGANISM: Oryza sativa
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_37508C.1.pep
US-10-437-963-135875

  Query Match             80.4%;  Score 41;  DB 4;  Length 111;
  Best Local Similarity   77.8%;  Pred. No. 91;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              || |||:||
Db         40 CCSSSRSRR 48


RESULT 25
US-10-425-115-294572
; Sequence 294572, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 294572
;   LENGTH: 124
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_31735C.1.pep
US-10-425-115-294572

  Query Match             80.4%;  Score 41;  DB 4;  Length 124;
  Best Local Similarity   77.8%;  Pred. No. 1e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              ||  |||||
Db         98 CCSGSRTRR 106


RESULT 26
US-10-425-114-42217
; Sequence 42217, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 42217
;   LENGTH: 177
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: 701014122_FLI.pep
US-10-425-114-42217

  Query Match             80.4%;  Score 41;  DB 4;  Length 177;
  Best Local Similarity   77.8%;  Pred. No. 1.3e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||| | ||
Db        134 CCRSGRRRR 142


RESULT 27
US-09-855-604-101
; Sequence 101, Application US/09855604
; Publication No. US20040214165A1
; GENERAL INFORMATION:
;  APPLICANT: GICQUEL, BRIGITTE
;  APPLICANT:  PORTNOI, DENIS
;  APPLICANT:  LIM, ENG-MONG
;  APPLICANT:  PELICIC, VLADIMIR
;  APPLICANT:  GUIGUENO, AGNES
;  APPLICANT:  GOGUET DE LA SALMONIERE, YVES
;  TITLE OF INVENTION: POLYPEPTIDE NUCLEIC SEQUENCES EXPORTED FROM MYCOBACTERIA,
;  TITLE OF INVENTION:  VECTORS COMPRISING SAME AND USES FOR DIAGNOSING AND
;  TITLE OF INVENTION:  PREVENTING TUBERCULOSIS
;  FILE REFERENCE: 03715.0062-01000
;  CURRENT APPLICATION NUMBER: US/09/855,604
;  CURRENT FILING DATE:  2001-05-16
;  PRIOR APPLICATION NUMBER: 09/485,536
;  PRIOR FILING DATE: 2000-02-14
;  PRIOR APPLICATION NUMBER: PCT/FR98/01813
;  PRIOR FILING DATE: 1998-08-14
;  PRIOR APPLICATION NUMBER: FR 97 10404
;  PRIOR FILING DATE: 1997-08-14
;  PRIOR APPLICATION NUMBER: FR 97 11325
;  PRIOR FILING DATE: 1997-09-11
;  NUMBER OF SEQ ID NOS: 935
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 101
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Mycobacterium tuberculosis
US-09-855-604-101

  Query Match             78.4%;  Score 40;  DB 3;  Length 20;
  Best Local Similarity   77.8%;  Pred. No. 33;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||| | ||
Db         12 CCRSRRRRR 20


RESULT 28
US-09-855-604-101
; Sequence 101, Application US/09855604
; Publication No. US20050158714A9
; GENERAL INFORMATION:
;  APPLICANT: GICQUEL, BRIGITTE
;  APPLICANT:  PORTNOI, DENIS
;  APPLICANT:  LIM, ENG-MONG
;  APPLICANT:  PELICIC, VLADIMIR
;  APPLICANT:  GUIGUENO, AGNES
;  APPLICANT:  GOGUET DE LA SALMONIERE, YVES
;  TITLE OF INVENTION: POLYPEPTIDE NUCLEIC SEQUENCES EXPORTED FROM MYCOBACTERIA,
;  TITLE OF INVENTION:  VECTORS COMPRISING SAME AND USES FOR DIAGNOSING AND
;  TITLE OF INVENTION:  PREVENTING TUBERCULOSIS
;  FILE REFERENCE: 03715.0062-01000
;  CURRENT APPLICATION NUMBER: US/09/855,604
;  CURRENT FILING DATE:  2001-05-16
;  PRIOR APPLICATION NUMBER: 09/485,536
;  PRIOR FILING DATE: 2000-02-14
;  PRIOR APPLICATION NUMBER: PCT/FR98/01813
;  PRIOR FILING DATE: 1998-08-14
;  PRIOR APPLICATION NUMBER: FR 97 10404
;  PRIOR FILING DATE: 1997-08-14
;  PRIOR APPLICATION NUMBER: FR 97 11325
```

```
;  PRIOR FILING DATE: 1997-09-11
;  NUMBER OF SEQ ID NOS: 935
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 101
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Mycobacterium tuberculosis
US-09-855-604-101

  Query Match             78.4%;  Score 40;  DB 3;  Length 20;
  Best Local Similarity   77.8%;  Pred. No. 33;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||| | ||
Db         12 CCRSRRRRR 20


RESULT 29
US-09-855-604-93
; Sequence 93, Application US/09855604
; Publication No. US20040214165A1
; GENERAL INFORMATION:
;  APPLICANT: GICQUEL, BRIGITTE
;  APPLICANT:  PORTNOI, DENIS
;  APPLICANT:  LIM, ENG-MONG
;  APPLICANT:  PELICIC, VLADIMIR
;  APPLICANT:  GUIGUENO, AGNES
;  APPLICANT:  GOGUET DE LA SALMONIERE, YVES
;  TITLE OF INVENTION: POLYPEPTIDE NUCLEIC SEQUENCES EXPORTED FROM MYCOBACTERIA,
;  TITLE OF INVENTION:  VECTORS COMPRISING SAME AND USES FOR DIAGNOSING AND
;  TITLE OF INVENTION:  PREVENTING TUBERCULOSIS
;  FILE REFERENCE: 03715.0062-01000
;  CURRENT APPLICATION NUMBER: US/09/855,604
;  CURRENT FILING DATE:  2001-05-16
;  PRIOR APPLICATION NUMBER: 09/485,536
;  PRIOR FILING DATE: 2000-02-14
;  PRIOR APPLICATION NUMBER: PCT/FR98/01813
;  PRIOR FILING DATE: 1998-08-14
;  PRIOR APPLICATION NUMBER: FR 97 10404
;  PRIOR FILING DATE: 1997-08-14
;  PRIOR APPLICATION NUMBER: FR 97 11325
;  PRIOR FILING DATE: 1997-09-11
;  NUMBER OF SEQ ID NOS: 935
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 93
;   LENGTH: 41
;   TYPE: PRT
;   ORGANISM: Mycobacterium tuberculosis
US-09-855-604-93

  Query Match             78.4%;  Score 40;  DB 3;  Length 41;
  Best Local Similarity   77.8%;  Pred. No. 58;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||| | ||
Db         33 CCRSRRRRR 41


RESULT 30
US-09-855-604-93
; Sequence 93, Application US/09855604
; Publication No. US20050158714A9
; GENERAL INFORMATION:
;  APPLICANT: GICQUEL, BRIGITTE
;  APPLICANT:  PORTNOI, DENIS
;  APPLICANT:  LIM, ENG-MONG
;  APPLICANT:  PELICIC, VLADIMIR
;  APPLICANT:  GUIGUENO, AGNES
;  APPLICANT:  GOGUET DE LA SALMONIERE, YVES
;  TITLE OF INVENTION: POLYPEPTIDE NUCLEIC SEQUENCES EXPORTED FROM MYCOBACTERIA,
;  TITLE OF INVENTION:  VECTORS COMPRISING SAME AND USES FOR DIAGNOSING AND
;  TITLE OF INVENTION:  PREVENTING TUBERCULOSIS
;  FILE REFERENCE: 03715.0062-01000
;  CURRENT APPLICATION NUMBER: US/09/855,604
;  CURRENT FILING DATE:  2001-05-16
;  PRIOR APPLICATION NUMBER: 09/485,536
;  PRIOR FILING DATE: 2000-02-14
;  PRIOR APPLICATION NUMBER: PCT/FR98/01813
;  PRIOR FILING DATE: 1998-08-14
;  PRIOR APPLICATION NUMBER: FR 97 10404
;  PRIOR FILING DATE: 1997-08-14
;  PRIOR APPLICATION NUMBER: FR 97 11325
;  PRIOR FILING DATE: 1997-09-11
;  NUMBER OF SEQ ID NOS: 935
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 93
;   LENGTH: 41
;   TYPE: PRT
;   ORGANISM: Mycobacterium tuberculosis
US-09-855-604-93

  Query Match             78.4%;  Score 40;  DB 3;  Length 41;
  Best Local Similarity   77.8%;  Pred. No. 58;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||| | ||
Db         33 CCRSRRRRR 41


RESULT 31
US-09-397-945-213
; Sequence 213, Application US/09397945
; Publication No. US20030065139A1
; GENERAL INFORMATION:
;  APPLICANT: Human Genome Sciences, Inc. et al.
;  TITLE OF INVENTION: 95 Human secreted proteins
;  FILE REFERENCE: PZ027P1
;  CURRENT APPLICATION NUMBER: US/09/397,945
;  CURRENT FILING DATE:  1999-09-17
;  PRIOR APPLICATION NUMBER: PCT/US99/05804
;  PRIOR FILING DATE: 1999-03-18
;  PRIOR APPLICATION NUMBER: 60/078,566
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,576
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,573
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,574
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,579
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/080,314
;  PRIOR FILING DATE: 1998-04-01
;  PRIOR APPLICATION NUMBER: 60/080,312
;  PRIOR FILING DATE: 1998-04-01
;  PRIOR APPLICATION NUMBER: 60/078,578
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,581
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,577
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,563
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/080,313
;  PRIOR FILING DATE: 1998-04-01
;  NUMBER OF SEQ ID NOS: 470
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 213
;   LENGTH: 43
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-397-945-213
```

```
  Query Match             78.4%;  Score 40;  DB 3;  Length 43;
  Best Local Similarity   87.5%;  Pred. No. 60;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTR 8
              |||||| |
Db         11 CCRSSRRR 18


RESULT 32
US-10-653-595-213
; Sequence 213, Application US/10653595
; Publication No. US20040048304A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et. al.
;  TITLE OF INVENTION: 95 Human secreted proteins
;  FILE REFERENCE: PZ027P1C1
;  CURRENT APPLICATION NUMBER: US/10/653,595
;  CURRENT FILING DATE:  2003-09-03
;  PRIOR APPLICATION NUMBER: US 09/397945
;  PRIOR FILING DATE: 1999-09-17
;  PRIOR APPLICATION NUMBER: PCT/US99/05804
;  PRIOR FILING DATE: 1999-03-18
;  PRIOR APPLICATION NUMBER: 60/078,566
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,576
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,573
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,574
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,579
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/080,314
;  PRIOR FILING DATE: 1998-04-01
;  PRIOR APPLICATION NUMBER: 60/080,312
;  PRIOR FILING DATE: 1998-04-01
;  PRIOR APPLICATION NUMBER: 60/078,578
;  PRIOR FILING DATE: 1998-03-19
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 470
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 213
;   LENGTH: 43
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-653-595-213

  Query Match             78.4%;  Score 40;  DB 4;  Length 43;
  Best Local Similarity   87.5%;  Pred. No. 60;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTR 8
              |||||| |
Db         11 CCRSSRRR 18


RESULT 33
US-10-425-115-304230
; Sequence 304230, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 304230
;   LENGTH: 43
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_4052C.1.pep
US-10-425-115-304230

  Query Match             78.4%;  Score 40;  DB 4;  Length 43;
  Best Local Similarity   66.7%;  Pred. No. 60;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              ||||:| :|
Db         28 CCRSNRNKR 36


RESULT 34
US-10-029-386-33740
; Sequence 33740, Application US/10029386
; Publication No. US20030194704A1
; GENERAL INFORMATION:
;  APPLICANT: Penn, Sharron G.
;  APPLICANT:  Rank, David R.
;  APPLICANT:  Hanzel, David K.
;  TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR GE
;  TITLE OF INVENTION:  EXPRESSION ANALYSIS TWO
;  FILE REFERENCE: AEOMICA-X-2
;  CURRENT APPLICATION NUMBER: US/10/029,386
;  CURRENT FILING DATE:  2001-12-20
;  NUMBER OF SEQ ID NOS: 34288
;  SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 33740
;   LENGTH: 87
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   OTHER INFORMATION: MAP TO AL163302.2
;   OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.3
;   OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL =   2
US-10-029-386-33740

  Query Match             78.4%;  Score 40;  DB 4;  Length 87;
  Best Local Similarity   77.8%;  Pred. No. 1.1e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              ||  |||||
Db         72 CCSPSRTRR 80


RESULT 35
US-10-425-115-267647
; Sequence 267647, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 267647
;   LENGTH: 87
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_17569C.1.pep
US-10-425-115-267647
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```
  Query Match            78.4%;  Score 40;  DB 4;  Length 87;
  Best Local Similarity  77.8%;  Pred. No. 1.1e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              ||| || ||
Db         26 CCRPSRRRR 34


RESULT 36
US-10-767-701-49570
; Sequence 49570, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
;  APPLICANT: Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof For Plant Improvement
;  FILE REFERENCE: 38-21(53535)B
;  CURRENT APPLICATION NUMBER: US/10/767,701
;  CURRENT FILING DATE:  2004-01-29
;  NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 49570
;   LENGTH: 93
;   TYPE: PRT
;   ORGANISM: Sorghum bicolor
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(93)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: LIB3476-059-P1-K1-E2.pep
US-10-767-701-49570

  Query Match            78.4%;  Score 40;  DB 4;  Length 93;
  Best Local Similarity  77.8%;  Pred. No. 1.1e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||| | ||
Db         34 CCRSRRRRR 42


RESULT 37
US-10-437-963-154099
; Sequence 154099, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 154099
;   LENGTH: 132
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_53992C.1.pep
US-10-437-963-154099

  Query Match            78.4%;  Score 40;  DB 4;  Length 132;
  Best Local Similarity  77.8%;  Pred. No. 1.5e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||| | ||
Db         20 CCRSRRRRR 28


RESULT 38
US-09-397-945-211
; Sequence 211, Application US/09397945
; Publication No. US20030065139A1
; GENERAL INFORMATION:
;  APPLICANT: Human Genome Sciences, Inc. et al.
;  TITLE OF INVENTION: 95 Human secreted proteins
;  FILE REFERENCE: PZ027P1
;  CURRENT APPLICATION NUMBER: US/09/397,945
;  CURRENT FILING DATE:  1999-09-17
;  PRIOR APPLICATION NUMBER: PCT/US99/05804
;  PRIOR FILING DATE: 1999-03-18
;  PRIOR APPLICATION NUMBER: 60/078,566
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,576
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,573
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,574
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,579
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/080,314
;  PRIOR FILING DATE: 1998-04-01
;  PRIOR APPLICATION NUMBER: 60/080,312
;  PRIOR FILING DATE: 1998-04-01
;  PRIOR APPLICATION NUMBER: 60/078,578
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,581
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,577
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/078,563
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/080,313
;  PRIOR FILING DATE: 1998-04-01
;  NUMBER OF SEQ ID NOS: 470
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 211
;   LENGTH: 137
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (10)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-397-945-211

  Query Match            78.4%;  Score 40;  DB 3;  Length 137;
  Best Local Similarity  87.5%;  Pred. No. 1.5e+02;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTR 8
              |||||| |
Db         52 CCRSSRRR 59


RESULT 39
US-10-653-595-211
; Sequence 211, Application US/10653595
; Publication No. US20040048304A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et. al.
;  TITLE OF INVENTION: 95 Human secreted proteins
;  FILE REFERENCE: PZ027P1C1
;  CURRENT APPLICATION NUMBER: US/10/653,595
```

; CURRENT FILING DATE: 2003-09-03
; PRIOR APPLICATION NUMBER: US 09/397945
; PRIOR FILING DATE: 1999-09-17
; PRIOR APPLICATION NUMBER: PCT/US99/05804
; PRIOR FILING DATE: 1999-03-18
; PRIOR APPLICATION NUMBER: 60/078,566
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,576
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,573
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,574
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/078,579
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 60/080,314
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080,312
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/078,578
; PRIOR FILING DATE: 1998-03-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 470
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 211
; LENGTH: 137
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (10)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-653-595-211

Query Match 78.4%; Score 40; DB 4; Length 137;
Best Local Similarity 87.5%; Pred. No. 1.5e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CCRSSRTR 8
||||||:|
Db 52 CCRSSRRR 59

RESULT 40
US-10-425-115-184761
; Sequence 184761, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 184761
; LENGTH: 102
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(102)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_100090C.1.pep
US-10-425-115-184761

Query Match 76.5%; Score 39; DB 4; Length 102;
Best Local Similarity 75.0%; Pred. No. 1.7e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCRSSRTR 8
||||:|:|
Db 11 CCRSARSR 18

RESULT 41
US-10-437-963-181461
; Sequence 181461, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 181461
; LENGTH: 134
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(134)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_78732C.1.pep
US-10-437-963-181461

Query Match 76.5%; Score 39; DB 4; Length 134;
Best Local Similarity 88.9%; Pred. No. 2.1e+02;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CCRSSRTRR 9
| |||||||
Db 65 CHRSSRTRR 73

RESULT 42
US-10-437-963-148427
; Sequence 148427, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 148427
; LENGTH: 146
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(146)
; OTHER INFORMATION: unsure at all Xaa locations

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;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_4885C.1.pep
US-10-437-963-148427

  Query Match             76.5%;  Score 39;  DB 4;  Length 146;
  Best Local Similarity   66.7%;  Pred. No. 2.2e+02;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              ||| :|:||
Db         16 CCRHTRSRR 24


RESULT 43
US-10-437-963-160036
; Sequence 160036, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 160036
;   LENGTH: 251
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_59353C.1.pep
US-10-437-963-160036

  Query Match             76.5%;  Score 39;  DB 4;  Length 251;
  Best Local Similarity   77.8%;  Pred. No. 3.4e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||  ||||
Db         57 CCRCWRTRR 65


RESULT 44
US-10-437-963-115033
; Sequence 115033, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 115033
;   LENGTH: 478
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_18668C.1.pep
US-10-437-963-115033

  Query Match             76.5%;  Score 39;  DB 4;  Length 478;
  Best Local Similarity   75.0%;  Pred. No. 5.7e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTR 8
              ||| :|||
Db        383 CCRGARTR 390


RESULT 45
US-10-437-963-196497
; Sequence 196497, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 196497
;   LENGTH: 686
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_92343C.1.pep
US-10-437-963-196497

  Query Match             76.5%;  Score 39;  DB 4;  Length 686;
  Best Local Similarity   75.0%;  Pred. No. 7.6e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTR 8
              |||| ||:
Db        297 CCRSGRTK 304


RESULT 46
US-10-424-599-182287
; Sequence 182287, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 182287
;   LENGTH: 118
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_135618C.1.pep
US-10-424-599-182287

  Query Match             74.5%;  Score 38;  DB 4;  Length 118;
  Best Local Similarity   77.8%;  Pred. No. 2.6e+02;
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  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              || ||| ||
Db        106 CCWSSRARR 114


RESULT 47
US-10-425-114-67214
; Sequence 67214, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 67214
;   LENGTH: 125
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: LIB4760-024-F1_FLI.pep
US-10-425-114-67214

  Query Match             74.5%;  Score 38;  DB 4;  Length 125;
  Best Local Similarity   85.7%;  Pred. No. 2.8e+02;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRT 7
              ||||:||
Db         98 CCRSTRT 104


RESULT 48
US-10-437-963-160782
; Sequence 160782, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 160782
;   LENGTH: 51
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_60028C.1.pep
US-10-437-963-160782

  Query Match             72.5%;  Score 37;  DB 4;  Length 51;
  Best Local Similarity   66.7%;  Pred. No. 1.9e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              || |||| :
Db         13 CCHSSRTSK 21


RESULT 49
US-10-437-963-175256
; Sequence 175256, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 175256
;   LENGTH: 66
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_73119C.1.pep
US-10-437-963-175256

  Query Match             72.5%;  Score 37;  DB 4;  Length 66;
  Best Local Similarity   66.7%;  Pred. No. 2.3e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||  |:||
Db         22 CCRCRRSRR 30


RESULT 50
US-09-287-849-35
; Sequence 35, Application US/09287849
; Patent No. US20020009459A1
; GENERAL INFORMATION:
;  APPLICANT:  Reed, Steven G.
;  APPLICANT:  Skeiky, Yasir A.W.
;  APPLICANT:  Dillon, Davin C.
;  APPLICANT:  Alderson, Mark
;  APPLICANT:  Campos-Neto, Antonio
;  APPLICANT:  Corixa Corporation
;  TITLE OF INVENTION:  Fusion Protiens of Mycobacterium tuberculosis Antigens
;  TITLE OF INVENTION:  and Their Uses
;  FILE REFERENCE:  014058-009020US
;  CURRENT APPLICATION NUMBER: US/09/287,849
;  CURRENT FILING DATE:  1999-04-07
;  PRIOR APPLICATION NUMBER:  US 08/818,112
;  PRIOR FILING DATE:  1997-03-13
;  PRIOR APPLICATION NUMBER:  US 08/942,578
;  PRIOR FILING DATE:  1997-10-01
;  PRIOR APPLICATION NUMBER:  US 09/025,197
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 09/056,556
;  PRIOR FILING DATE:  1998-04-07
;  PRIOR APPLICATION NUMBER:  US 09/223,040
;  PRIOR FILING DATE:  1998-12-30
;  NUMBER OF SEQ ID NOS:  46
;  SOFTWARE:  PatentIn Ver. 2.1
; SEQ ID NO 35
;   LENGTH: 93
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
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; OTHER INFORMATION: Description of Artificial Sequence:peptide of US-09-287-849-35

Query Match 72.5%; Score 37; DB 3; Length 93;
Best Local Similarity 66.7%; Pred. No. 3.1e+02;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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Qy          1 CCRSSRTRR 9
              |||  | ||
Db         45 CCRQQRQRR 53
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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:32:07 ; Search time 18.4 Seconds
(without alignments)
22.639 Million cell updates/sec

Title: US-08-170-344-58
Perfect score: 51
Sequence: 1 CCRSSRTRR 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_New:*
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2: /SIDS5/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
3: /SIDS5/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
4: /SIDS5/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
5: /SIDS5/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
6: /SIDS5/ptodata/1/pubpaa/US09_NEW_PUB.pep:*
7: /SIDS5/ptodata/1/pubpaa/US09_NEW_PUB.pep1:*
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12: /SIDS5/ptodata/1/pubpaa/US60_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
|---|---|---|---|---|---|---|
| 1 | 51 | 100.0 | 151 | 9 | US-10-530-253-13 | Sequence 13, Appl |
| 2 | 51 | 100.0 | 158 | 11 | US-11-206-138-3 | Sequence 3, Appli |
| 3 | 51 | 100.0 | 248 | 9 | US-10-530-253-1 | Sequence 1, Appli |
| 4 | 51 | 100.0 | 248 | 9 | US-10-530-253-3 | Sequence 3, Appli |
| 5 | 51 | 100.0 | 248 | 9 | US-10-530-253-5 | Sequence 5, Appli |
| 6 | 51 | 100.0 | 248 | 9 | US-10-530-253-7 | Sequence 7, Appli |
| 7 | 51 | 100.0 | 248 | 9 | US-10-530-253-9 | Sequence 9, Appli |
| 8 | 51 | 100.0 | 248 | 9 | US-10-530-253-11 | Sequence 11, Appl |
| 9 | 51 | 100.0 | 256 | 11 | US-11-192-923A-2 | Sequence 2, Appli |
| 10 | 48 | 94.1 | 10 | 9 | US-10-530-061-516 | Sequence 516, App |
| 11 | 46 | 90.2 | 10 | 9 | US-10-530-061-513 | Sequence 513, App |
| 12 | 43 | 84.3 | 9 | 9 | US-10-530-061-606 | Sequence 606, App |
| 13 | 43 | 84.3 | 10 | 9 | US-10-530-061-514 | Sequence 514, App |
| 14 | 42 | 82.4 | 10 | 9 | US-10-530-061-515 | Sequence 515, App |
| 15 | 42 | 82.4 | 101 | 11 | US-11-079-463-10120 | Sequence 10120, A |
| 16 | 39 | 76.5 | 144 | 11 | US-11-096-568A-12659 | Sequence 12659, A |
| 17 | 37 | 72.5 | 9 | 9 | US-10-530-061-605 | Sequence 605, App |
| 18 | 37 | 72.5 | 93 | 11 | US-11-201-519-35 | Sequence 35, Appl |
| 19 | 36 | 70.6 | 104 | 11 | US-11-096-568A-23117 | Sequence 23117, A |
| 20 | 36 | 70.6 | 141 | 9 | US-10-982-145-72 | Sequence 72, Appl |
| 21 | 36 | 70.6 | 141 | 9 | US-10-982-145-73 | Sequence 73, Appl |
| 22 | 36 | 70.6 | 303 | 11 | US-11-096-568A-33215 | Sequence 33215, A |
| 23 | 36 | 70.6 | 413 | 11 | US-11-096-568A-33214 | Sequence 33214, A |
| 24 | 36 | 70.6 | 422 | 11 | US-11-096-568A-33213 | Sequence 33213, A |
| 25 | 36 | 70.6 | 522 | 11 | US-11-079-463-7574 | Sequence 7574, Ap |
| 26 | 35 | 68.6 | 33 | 11 | US-11-004-399-3215 | Sequence 3215, Ap |
| 27 | 35 | 68.6 | 185 | 9 | US-10-821-234-1130 | Sequence 1130, Ap |
| 28 | 35 | 68.6 | 204 | 11 | US-11-096-568A-26773 | Sequence 26773, A |
| 29 | 35 | 68.6 | 251 | 11 | US-11-096-568A-1257 | Sequence 1257, Ap |
| 30 | 35 | 68.6 | 251 | 11 | US-11-096-568A-1259 | Sequence 1259, Ap |
| 31 | 35 | 68.6 | 280 | 11 | US-11-096-568A-1256 | Sequence 1256, Ap |
| 32 | 35 | 68.6 | 371 | 11 | US-11-087-099-575 | Sequence 575, App |
| 33 | 35 | 68.6 | 414 | 11 | US-11-096-568A-22755 | Sequence 22755, A |
| 34 | 34 | 66.7 | 58 | 11 | US-11-234-786-547 | Sequence 547, App |
| 35 | 34 | 66.7 | 175 | 11 | US-11-096-568A-25592 | Sequence 25592, A |
| 36 | 34 | 66.7 | 320 | 11 | US-11-096-568A-18072 | Sequence 18072, A |
| 37 | 34 | 66.7 | 371 | 11 | US-11-264-096-852 | Sequence 852, App |
| 38 | 34 | 66.7 | 384 | 11 | US-11-188-298-20370 | Sequence 20370, A |
| 39 | 34 | 66.7 | 553 | 11 | US-11-234-786-113 | Sequence 113, App |
| 40 | 33.5 | 65.7 | 85 | 11 | US-11-096-568A-10776 | Sequence 10776, A |
| 41 | 33.5 | 65.7 | 149 | 11 | US-11-096-568A-10774 | Sequence 10774, A |
| 42 | 33 | 64.7 | 19 | 9 | US-10-485-788A-625 | Sequence 625, App |
| 43 | 33 | 64.7 | 190 | 11 | US-11-096-568A-23996 | Sequence 23996, A |
| 44 | 33 | 64.7 | 238 | 11 | US-11-096-568A-4156 | Sequence 4156, Ap |
| 45 | 33 | 64.7 | 274 | 11 | US-11-096-568A-20616 | Sequence 20616, A |
| 46 | 33 | 64.7 | 278 | 11 | US-11-096-568A-11541 | Sequence 11541, A |
| 47 | 33 | 64.7 | 340 | 11 | US-11-096-568A-20615 | Sequence 20615, A |
| 48 | 33 | 64.7 | 360 | 11 | US-11-096-568A-20614 | Sequence 20614, A |
| 49 | 33 | 64.7 | 407 | 11 | US-11-096-568A-11540 | Sequence 11540, A |
| 50 | 33 | 64.7 | 422 | 11 | US-11-087-099-5083 | Sequence 5083, Ap |
| 51 | 33 | 64.7 | 422 | 11 | US-11-188-298-15698 | Sequence 15698, A |
| 52 | 33 | 64.7 | 437 | 11 | US-11-096-568A-11539 | Sequence 11539, A |
| 53 | 33 | 64.7 | 496 | 11 | US-11-096-568A-22028 | Sequence 22028, A |
| 54 | 33 | 64.7 | 499 | 11 | US-11-096-568A-22027 | Sequence 22027, A |
| 55 | 33 | 64.7 | 615 | 11 | US-11-096-568A-24580 | Sequence 24580, A |
| 56 | 33 | 64.7 | 652 | 11 | US-11-096-568A-24579 | Sequence 24579, A |
| 57 | 33 | 64.7 | 664 | 11 | US-11-096-568A-24578 | Sequence 24578, A |
| 58 | 32 | 62.7 | 95 | 9 | US-10-644-807-200 | Sequence 200, App |
| 59 | 32 | 62.7 | 95 | 9 | US-10-644-807-283 | Sequence 283, App |
| 60 | 32 | 62.7 | 119 | 11 | US-11-096-568A-1407 | Sequence 1407, Ap |
| 61 | 32 | 62.7 | 159 | 11 | US-11-096-568A-1406 | Sequence 1406, Ap |
| 62 | 32 | 62.7 | 206 | 11 | US-11-087-099-2802 | Sequence 2802, Ap |
| 63 | 32 | 62.7 | 231 | 11 | US-11-045-004-1824 | Sequence 1824, Ap |
| 64 | 32 | 62.7 | 234 | 11 | US-11-096-568A-16875 | Sequence 16875, A |
| 65 | 32 | 62.7 | 266 | 11 | US-11-072-512-3891 | Sequence 3891, Ap |
| 66 | 32 | 62.7 | 288 | 11 | US-11-096-568A-16873 | Sequence 16873, A |
| 67 | 32 | 62.7 | 308 | 11 | US-11-096-568A-19209 | Sequence 19209, A |
| 68 | 32 | 62.7 | 550 | 11 | US-11-264-096-1284 | Sequence 1284, Ap |
| 69 | 32 | 62.7 | 552 | 11 | US-11-096-568A-29840 | Sequence 29840, A |
| 70 | 32 | 62.7 | 579 | 11 | US-11-096-568A-29839 | Sequence 29839, A |
| 71 | 32 | 62.7 | 700 | 11 | US-11-096-568A-29838 | Sequence 29838, A |
| 72 | 32 | 62.7 | 1190 | 11 | US-11-096-568A-28022 | Sequence 28022, A |
| 73 | 32 | 62.7 | 1355 | 11 | US-11-096-568A-28021 | Sequence 28021, A |
| 74 | 32 | 62.7 | 1366 | 11 | US-11-096-568A-28020 | Sequence 28020, A |
| 75 | 32 | 62.7 | 1523 | 9 | US-10-194-487-290 | Sequence 290, App |
| 76 | 32 | 62.7 | 1523 | 9 | US-10-195-883-290 | Sequence 290, App |
| 77 | 32 | 62.7 | 1523 | 9 | US-10-195-888-290 | Sequence 290, App |
| 78 | 32 | 62.7 | 1523 | 9 | US-10-195-889-290 | Sequence 290, App |
| 79 | 32 | 62.7 | 1905 | 9 | US-10-877-346-44 | Sequence 44, Appl |
| 80 | 31 | 60.8 | 9 | 9 | US-10-895-064-42 | Sequence 42, Appl |
| 81 | 31 | 60.8 | 9 | 11 | US-11-129-741-42 | Sequence 42, Appl |
| 82 | 31 | 60.8 | 9 | 11 | US-11-129-741-2978 | Sequence 2978, Ap |
| 83 | 31 | 60.8 | 65 | 11 | US-11-096-568A-776 | Sequence 776, App |
| 84 | 31 | 60.8 | 118 | 9 | US-10-982-145-121 | Sequence 121, App |
| 85 | 31 | 60.8 | 127 | 11 | US-11-096-568A-22947 | Sequence 22947, A |
| 86 | 31 | 60.8 | 128 | 11 | US-11-096-568A-27 | Sequence 27, Appl |
| 87 | 31 | 60.8 | 140 | 9 | US-10-982-145-65 | Sequence 65, Appl |
| 88 | 31 | 60.8 | 140 | 9 | US-10-982-145-66 | Sequence 66, Appl |
| 89 | 31 | 60.8 | 140 | 9 | US-10-982-145-69 | Sequence 69, Appl |
| 90 | 31 | 60.8 | 141 | 9 | US-10-982-145-67 | Sequence 67, Appl |
| 91 | 31 | 60.8 | 141 | 9 | US-10-982-145-68 | Sequence 68, Appl |
| 92 | 31 | 60.8 | 141 | 9 | US-10-982-145-70 | Sequence 70, Appl |
| 93 | 31 | 60.8 | 141 | 9 | US-10-982-145-71 | Sequence 71, Appl |
| 94 | 31 | 60.8 | 141 | 9 | US-10-982-145-123 | Sequence 123, App |

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| 96 | 31 | 60.8 | 143 | 11 | US-11-096-568A-26 | Sequence 26, Appl |
| 97 | 31 | 60.8 | 165 | 9 | US-10-330-773-971 | Sequence 971, App |
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| 102 | 31 | 60.8 | 216 | 11 | US-11-051-720-1704 | Sequence 1704, Ap |
| 103 | 31 | 60.8 | 219 | 11 | US-11-188-298-8114 | Sequence 8114, Ap |
| 104 | 31 | 60.8 | 220 | 11 | US-11-096-568A-13879 | Sequence 13879, A |
| 105 | 31 | 60.8 | 231 | 9 | US-10-330-773-968 | Sequence 968, App |
| 106 | 31 | 60.8 | 241 | 11 | US-11-188-298-18997 | Sequence 18997, A |
| 107 | 31 | 60.8 | 275 | 9 | US-10-972-587-22 | Sequence 22, Appl |
| 108 | 31 | 60.8 | 277 | 9 | US-10-972-587-20 | Sequence 20, Appl |
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| 111 | 31 | 60.8 | 318 | 11 | US-11-096-568A-16448 | Sequence 16448, A |
| 112 | 31 | 60.8 | 337 | 11 | US-11-096-568A-7705 | Sequence 7705, Ap |
| 113 | 31 | 60.8 | 338 | 11 | US-11-188-298-11693 | Sequence 11693, A |
| 114 | 31 | 60.8 | 340 | 11 | US-11-096-568A-7704 | Sequence 7704, Ap |
| 115 | 31 | 60.8 | 346 | 11 | US-11-096-568A-16447 | Sequence 16447, A |
| 116 | 31 | 60.8 | 353 | 11 | US-11-096-568A-16446 | Sequence 16446, A |
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| 118 | 31 | 60.8 | 378 | 11 | US-11-096-568A-7212 | Sequence 7212, Ap |
| 119 | 31 | 60.8 | 378 | 11 | US-11-096-568A-18777 | Sequence 18777, A |
| 120 | 31 | 60.8 | 398 | 11 | US-11-188-298-21995 | Sequence 21995, A |
| 121 | 31 | 60.8 | 419 | 11 | US-11-188-298-10420 | Sequence 10420, A |
| 122 | 31 | 60.8 | 421 | 11 | US-11-188-298-10978 | Sequence 10978, A |
| 123 | 31 | 60.8 | 423 | 11 | US-11-096-568A-7211 | Sequence 7211, Ap |
| 124 | 31 | 60.8 | 423 | 11 | US-11-096-568A-18776 | Sequence 18776, A |
| 125 | 31 | 60.8 | 423 | 11 | US-11-096-568A-22537 | Sequence 22537, A |
| 126 | 31 | 60.8 | 432 | 11 | US-11-096-568A-17031 | Sequence 17031, A |
| 127 | 31 | 60.8 | 439 | 11 | US-11-188-298-1048 | Sequence 1048, Ap |
| 128 | 31 | 60.8 | 447 | 11 | US-11-188-298-6626 | Sequence 6626, Ap |
| 129 | 31 | 60.8 | 477 | 11 | US-11-188-298-5591 | Sequence 5591, Ap |
| 130 | 31 | 60.8 | 497 | 11 | US-11-188-298-4942 | Sequence 4942, Ap |
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| 132 | 31 | 60.8 | 517 | 8 | US-10-505-928-776 | Sequence 776, App |
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| 136 | 31 | 60.8 | 531 | 11 | US-11-094-586-24 | Sequence 24, Appl |
| 137 | 31 | 60.8 | 531 | 11 | US-11-094-586-26 | Sequence 26, Appl |
| 138 | 31 | 60.8 | 534 | 11 | US-11-167-856-24 | Sequence 24, Appl |
| 139 | 31 | 60.8 | 534 | 11 | US-11-188-298-7695 | Sequence 7695, Ap |
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| 145 | 31 | 60.8 | 539 | 11 | US-11-188-298-5609 | Sequence 5609, Ap |
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| 147 | 31 | 60.8 | 540 | 11 | US-11-188-298-8198 | Sequence 8198, Ap |
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| 151 | 31 | 60.8 | 546 | 11 | US-11-188-298-15457 | Sequence 15457, A |
| 152 | 31 | 60.8 | 547 | 11 | US-11-188-298-20802 | Sequence 20802, A |
| 153 | 31 | 60.8 | 549 | 11 | US-11-096-568A-22535 | Sequence 22535, A |
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| 157 | 31 | 60.8 | 549 | 11 | US-11-188-298-11719 | Sequence 11719, A |
| 158 | 31 | 60.8 | 549 | 11 | US-11-188-298-13230 | Sequence 13230, A |
| 159 | 31 | 60.8 | 549 | 11 | US-11-188-298-13954 | Sequence 13954, A |
| 160 | 31 | 60.8 | 549 | 11 | US-11-188-298-17058 | Sequence 17058, A |
| 161 | 31 | 60.8 | 549 | 11 | US-11-188-298-20321 | Sequence 20321, A |
| 162 | 31 | 60.8 | 549 | 11 | US-11-188-298-22400 | Sequence 22400, A |
| 163 | 31 | 60.8 | 550 | 11 | US-11-096-568A-18775 | Sequence 18775, A |
| 164 | 31 | 60.8 | 550 | 11 | US-11-188-298-1128 | Sequence 1128, Ap |
| 165 | 31 | 60.8 | 550 | 11 | US-11-188-298-4393 | Sequence 4393, Ap |
| 166 | 31 | 60.8 | 550 | 11 | US-11-188-298-7622 | Sequence 7622, Ap |
| 167 | 31 | 60.8 | 551 | 11 | US-11-188-298-5035 | Sequence 5035, Ap |
| 168 | 31 | 60.8 | 553 | 11 | US-11-188-298-2791 | Sequence 2791, Ap |
| 169 | 31 | 60.8 | 553 | 11 | US-11-188-298-16495 | Sequence 16495, A |
| 170 | 31 | 60.8 | 554 | 11 | US-11-188-298-12454 | Sequence 12454, A |
| 171 | 31 | 60.8 | 554 | 11 | US-11-188-298-19874 | Sequence 19874, A |
| 172 | 31 | 60.8 | 556 | 11 | US-11-188-298-5138 | Sequence 5138, Ap |
| 173 | 31 | 60.8 | 557 | 11 | US-11-188-298-12634 | Sequence 12634, A |
| 174 | 31 | 60.8 | 812 | 11 | US-11-188-298-1905 | Sequence 1905, Ap |
| 175 | 31 | 60.8 | 902 | 11 | US-11-188-298-12248 | Sequence 12248, A |
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| 177 | 31 | 60.8 | 1057 | 11 | US-11-096-568A-30809 | Sequence 30809, A |
| 178 | 31 | 60.8 | 1063 | 11 | US-11-096-568A-29281 | Sequence 29281, A |
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| 183 | 31 | 60.8 | 1184 | 11 | US-11-096-568A-29280 | Sequence 29280, A |
| 184 | 31 | 60.8 | 1187 | 11 | US-11-043-889-46 | Sequence 46, Appl |
| 185 | 31 | 60.8 | 1189 | 11 | US-11-096-568A-27846 | Sequence 27846, A |
| 186 | 31 | 60.8 | 1380 | 11 | US-11-079-463-6036 | Sequence 6036, Ap |
| 187 | 30.5 | 59.8 | 166 | 11 | US-11-096-568A-25629 | Sequence 25629, A |
| 188 | 30.5 | 59.8 | 180 | 11 | US-11-096-568A-10765 | Sequence 10765, A |
| 189 | 30.5 | 59.8 | 194 | 9 | US-10-995-561-784 | Sequence 784, App |
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| 191 | 30 | 58.8 | 13 | 11 | US-11-129-741-1041 | Sequence 1041, Ap |
| 192 | 30 | 58.8 | 13 | 11 | US-11-129-741-4037 | Sequence 4037, Ap |
| 193 | 30 | 58.8 | 68 | 9 | US-10-986-405-318 | Sequence 318, App |
| 194 | 30 | 58.8 | 104 | 9 | US-10-995-951A-21 | Sequence 21, Appl |
| 195 | 30 | 58.8 | 139 | 11 | US-11-096-568A-14132 | Sequence 14132, A |
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| 199 | 30 | 58.8 | 189 | 11 | US-11-072-512-3254 | Sequence 3254, Ap |
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| 206 | 30 | 58.8 | 319 | 11 | US-11-096-568A-24347 | Sequence 24347, A |
| 207 | 30 | 58.8 | 341 | 11 | US-11-096-568A-27148 | Sequence 27148, A |
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| 209 | 30 | 58.8 | 366 | 11 | US-11-096-568A-11751 | Sequence 11751, A |
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| 212 | 30 | 58.8 | 384 | 11 | US-11-139-041-326 | Sequence 326, App |
| 213 | 30 | 58.8 | 384 | 11 | US-11-139-041-332 | Sequence 332, App |
| 214 | 30 | 58.8 | 384 | 11 | US-11-139-041-333 | Sequence 333, App |
| 215 | 30 | 58.8 | 391 | 11 | US-11-072-512-3877 | Sequence 3877, Ap |
| 216 | 30 | 58.8 | 397 | 11 | US-11-087-099-9323 | Sequence 9323, Ap |
| 217 | 30 | 58.8 | 473 | 11 | US-11-087-099-9537 | Sequence 9537, Ap |
| 218 | 30 | 58.8 | 499 | 11 | US-11-188-298-4559 | Sequence 4559, Ap |
| 219 | 30 | 58.8 | 527 | 11 | US-11-188-298-17484 | Sequence 17484, A |
| 220 | 30 | 58.8 | 811 | 11 | US-11-188-298-2220 | Sequence 2220, Ap |
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| 222 | 30 | 58.8 | 1161 | 9 | US-10-511-538-99 | Sequence 99, Appl |
| 223 | 30 | 58.8 | 1515 | 11 | US-11-124-367A-402 | Sequence 402, App |
| 224 | 30 | 58.8 | 1516 | 11 | US-11-124-367A-401 | Sequence 401, App |
| 225 | 30 | 58.8 | 1518 | 11 | US-11-124-367A-406 | Sequence 406, App |
| 226 | 30 | 58.8 | 1532 | 11 | US-11-124-367A-403 | Sequence 403, App |
| 227 | 30 | 58.8 | 1532 | 11 | US-11-124-367A-404 | Sequence 404, App |
| 228 | 30 | 58.8 | 1532 | 11 | US-11-124-367A-405 | Sequence 405, App |
| 229 | 30 | 58.8 | 1532 | 11 | US-11-124-367A-407 | Sequence 407, App |
| 230 | 30 | 58.8 | 1535 | 11 | US-11-124-367A-408 | Sequence 408, App |
| 231 | 29 | 56.9 | 84 | 11 | US-11-096-568A-15934 | Sequence 15934, A |
| 232 | 29 | 56.9 | 87 | 11 | US-11-096-568A-11338 | Sequence 11338, A |
| 233 | 29 | 56.9 | 99 | 11 | US-11-159-667-38 | Sequence 38, Appl |
| 234 | 29 | 56.9 | 103 | 11 | US-11-004-399-367 | Sequence 367, App |
| 235 | 29 | 56.9 | 103 | 11 | US-11-004-399-698 | Sequence 698, App |
| 236 | 29 | 56.9 | 103 | 11 | US-11-004-399-3728 | Sequence 3728, Ap |
| 237 | 29 | 56.9 | 120 | 9 | US-10-467-657-7726 | Sequence 7726, Ap |
| 238 | 29 | 56.9 | 135 | 9 | US-10-131-826A-276 | Sequence 276, App |
| 239 | 29 | 56.9 | 135 | 9 | US-10-973-115B-276 | Sequence 276, App |
| 240 | 29 | 56.9 | 135 | 9 | US-10-137-873A-276 | Sequence 276, App |

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| 241 | 29 | 56.9 | 135 | 9 | US-10-152-370-276 | Sequence 276, App |
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| 243 | 29 | 56.9 | 135 | 11 | US-11-290-153-276 | Sequence 276, App |
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| 247 | 29 | 56.9 | 160 | 11 | US-11-096-568A-13895 | Sequence 13895, A |
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| 255 | 29 | 56.9 | 222 | 11 | US-11-096-568A-19362 | Sequence 19362, A |
| 256 | 29 | 56.9 | 227 | 11 | US-11-096-568A-18544 | Sequence 18544, A |
| 257 | 29 | 56.9 | 246 | 11 | US-11-096-568A-16934 | Sequence 16934, A |
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| 265 | 29 | 56.9 | 317 | 11 | US-11-096-568A-20724 | Sequence 20724, A |
| 266 | 29 | 56.9 | 319 | 11 | US-11-096-568A-24535 | Sequence 24535, A |
| 267 | 29 | 56.9 | 323 | 11 | US-11-096-568A-18543 | Sequence 18543, A |
| 268 | 29 | 56.9 | 360 | 11 | US-11-096-568A-32617 | Sequence 32617, A |
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| 272 | 29 | 56.9 | 442 | 11 | US-11-096-568A-19628 | Sequence 19628, A |
| 273 | 29 | 56.9 | 473 | 9 | US-10-131-826A-382 | Sequence 382, App |
| 274 | 29 | 56.9 | 473 | 9 | US-10-973-115B-382 | Sequence 382, App |
| 275 | 29 | 56.9 | 473 | 9 | US-10-218-784-128 | Sequence 128, App |
| 276 | 29 | 56.9 | 473 | 9 | US-10-219-061-128 | Sequence 128, App |
| 277 | 29 | 56.9 | 473 | 9 | US-10-219-062-128 | Sequence 128, App |
| 278 | 29 | 56.9 | 473 | 9 | US-10-219-064-128 | Sequence 128, App |
| 279 | 29 | 56.9 | 473 | 9 | US-10-233-134-128 | Sequence 128, App |
| 280 | 29 | 56.9 | 473 | 9 | US-10-216-161A-400 | Sequence 400, App |
| 281 | 29 | 56.9 | 473 | 9 | US-10-137-873A-382 | Sequence 382, App |
| 282 | 29 | 56.9 | 473 | 9 | US-10-152-370-382 | Sequence 382, App |
| 283 | 29 | 56.9 | 473 | 11 | US-11-290-153-382 | Sequence 382, App |
| 284 | 29 | 56.9 | 474 | 11 | US-11-087-099-12372 | Sequence 12372, A |
| 285 | 29 | 56.9 | 496 | 11 | US-11-182-016-33 | Sequence 33, Appl |
| 286 | 29 | 56.9 | 538 | 11 | US-11-124-368A-311 | Sequence 311, App |
| 287 | 29 | 56.9 | 538 | 11 | US-11-124-368A-312 | Sequence 312, App |
| 288 | 29 | 56.9 | 538 | 11 | US-11-124-368A-313 | Sequence 313, App |
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| 291 | 29 | 56.9 | 656 | 11 | US-11-087-099-7640 | Sequence 7640, Ap |
| 292 | 29 | 56.9 | 678 | 11 | US-11-072-512-3832 | Sequence 3832, Ap |
| 293 | 29 | 56.9 | 744 | 11 | US-11-264-096-717 | Sequence 717, App |
| 294 | 29 | 56.9 | 780 | 8 | US-10-505-928-102 | Sequence 102, App |
| 295 | 29 | 56.9 | 824 | 9 | US-10-784-004-385 | Sequence 385, App |
| 296 | 29 | 56.9 | 824 | 9 | US-10-784-004-934 | Sequence 934, App |
| 297 | 29 | 56.9 | 912 | 9 | US-10-501-035-372 | Sequence 372, App |
| 298 | 29 | 56.9 | 1275 | 11 | US-11-188-298-12889 | Sequence 12889, A |
| 299 | 29 | 56.9 | 1306 | 11 | US-11-188-298-7550 | Sequence 7550, Ap |
| 300 | 29 | 56.9 | 1401 | 11 | US-11-188-298-13416 | Sequence 13416, A |
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| 304 | 28 | 54.9 | 10 | 11 | US-11-053-076-229 | Sequence 229, App |
| 305 | 28 | 54.9 | 26 | 9 | US-10-895-064-385 | Sequence 385, App |
| 306 | 28 | 54.9 | 26 | 11 | US-11-129-741-385 | Sequence 385, App |
| 307 | 28 | 54.9 | 26 | 11 | US-11-129-741-3315 | Sequence 3315, Ap |
| 308 | 28 | 54.9 | 27 | 11 | US-11-121-044A-92 | Sequence 92, Appl |
| 309 | 28 | 54.9 | 49 | 9 | US-10-467-657-4058 | Sequence 4058, Ap |
| 310 | 28 | 54.9 | 58 | 9 | US-10-506-454-985 | Sequence 985, App |
| 311 | 28 | 54.9 | 76 | 11 | US-11-226-657-68 | Sequence 68, Appl |
| 312 | 28 | 54.9 | 83 | 11 | US-11-004-399-3297 | Sequence 3297, Ap |
| 313 | 28 | 54.9 | 98 | 9 | US-10-467-657-6988 | Sequence 6988, Ap |
| 314 | 28 | 54.9 | 103 | 9 | US-10-821-234-1005 | Sequence 1005, Ap |
| 315 | 28 | 54.9 | 111 | 11 | US-11-221-281-43 | Sequence 43, Appl |
| 316 | 28 | 54.9 | 113 | 9 | US-10-932-334-60 | Sequence 60, Appl |
| 317 | 28 | 54.9 | 113 | 9 | US-10-932-334-63 | Sequence 63, Appl |
| 318 | 28 | 54.9 | 113 | 9 | US-10-784-004-1237 | Sequence 1237, Ap |
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| 331 | 28 | 54.9 | 156 | 11 | US-11-087-099-9888 | Sequence 9888, Ap |
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| 333 | 28 | 54.9 | 169 | 11 | US-11-096-568A-11654 | Sequence 11654, A |
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| 335 | 28 | 54.9 | 176 | 11 | US-11-096-568A-15205 | Sequence 15205, A |
| 336 | 28 | 54.9 | 181 | 11 | US-11-175-690-344 | Sequence 344, App |
| 337 | 28 | 54.9 | 181 | 11 | US-11-175-690-345 | Sequence 345, App |
| 338 | 28 | 54.9 | 181 | 11 | US-11-175-690-346 | Sequence 346, App |
| 339 | 28 | 54.9 | 181 | 11 | US-11-175-690-347 | Sequence 347, App |
| 340 | 28 | 54.9 | 181 | 11 | US-11-175-690-348 | Sequence 348, App |
| 341 | 28 | 54.9 | 181 | 11 | US-11-175-690-349 | Sequence 349, App |
| 342 | 28 | 54.9 | 183 | 11 | US-11-264-096-2225 | Sequence 2225, Ap |
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| 347 | 28 | 54.9 | 193 | 11 | US-11-096-568A-26463 | Sequence 26463, A |
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| 380 | 28 | 54.9 | 346 | 9 | US-10-137-873A-432 | Sequence 432, App |
| 381 | 28 | 54.9 | 346 | 9 | US-10-152-370-432 | Sequence 432, App |
| 382 | 28 | 54.9 | 346 | 11 | US-11-290-153-432 | Sequence 432, App |
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| 385 | 28 | 54.9 | 352 | 9 | US-10-219-061-216 | Sequence 216, App |
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| 390 | 28 | 54.9 | 354 | 11 | US-11-072-512-3330 | Sequence 3330, Ap |
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| 447 | 28 | 54.9 | 859 | 11 | US-11-235-037-7 | Sequence 7, Appli |
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| 450 | 28 | 54.9 | 993 | 9 | US-10-532-482-51 | Sequence 51, Appl |
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| 453 | 28 | 54.9 | 1005 | 9 | US-10-532-482-54 | Sequence 54, Appl |
| 454 | 28 | 54.9 | 1006 | 9 | US-10-532-482-53 | Sequence 53, Appl |
| 455 | 28 | 54.9 | 1009 | 9 | US-10-532-482-31 | Sequence 31, Appl |
| 456 | 28 | 54.9 | 1013 | 9 | US-10-532-482-32 | Sequence 32, Appl |
| 457 | 28 | 54.9 | 1016 | 9 | US-10-532-482-50 | Sequence 50, Appl |
| 458 | 28 | 54.9 | 1016 | 9 | US-10-532-482-57 | Sequence 57, Appl |
| 459 | 28 | 54.9 | 1029 | 9 | US-10-532-482-52 | Sequence 52, Appl |
| 460 | 28 | 54.9 | 1032 | 9 | US-10-532-482-49 | Sequence 49, Appl |
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| 467 | 28 | 54.9 | 1744 | 11 | US-11-043-806-389 | Sequence 389, App |
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| 470 | 28 | 54.9 | 2813 | 9 | US-10-995-561-688 | Sequence 688, App |
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| 525 | 27 | 52.9 | 105 | 9 | US-10-467-657-8226 | Sequence 8226, Ap |
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| 573 | 27 | 52.9 | 203 | 9 | US-10-506-454-801 | Sequence 801, App |
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| 576 | 27 | 52.9 | 212 | 11 | US-11-096-568A-9363 | Sequence 9363, Ap |
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| 587 | 27 | 52.9 | 236 | 11 | US-11-096-568A-4117 | Sequence 4117, Ap |
| 588 | 27 | 52.9 | 236 | 11 | US-11-096-568A-9595 | Sequence 9595, Ap |
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| 591 | 27 | 52.9 | 240 | 11 | US-11-096-568A-16018 | Sequence 16018, A |
| 592 | 27 | 52.9 | 240 | 11 | US-11-096-568A-21437 | Sequence 21437, A |
| 593 | 27 | 52.9 | 241 | 11 | US-11-096-568A-13828 | Sequence 13828, A |
| 594 | 27 | 52.9 | 241 | 11 | US-11-096-568A-21436 | Sequence 21436, A |
| 595 | 27 | 52.9 | 242 | 11 | US-11-096-568A-25486 | Sequence 25486, A |
| 596 | 27 | 52.9 | 243 | 11 | US-11-096-568A-24046 | Sequence 24046, A |
| 597 | 27 | 52.9 | 244 | 11 | US-11-096-568A-6842 | Sequence 6842, Ap |
| 598 | 27 | 52.9 | 244 | 11 | US-11-096-568A-16017 | Sequence 16017, A |
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| 606 | 27 | 52.9 | 250 | 10 | US-11-301-554-2004 | Sequence 2004, Ap |
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| 608 | 27 | 52.9 | 256 | 11 | US-11-096-568A-7140 | Sequence 7140, Ap |
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| 635 | 27 | 52.9 | 293 | 11 | US-11-087-099-9814 | Sequence 9814, Ap |
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| 639 | 27 | 52.9 | 302 | 11 | US-11-096-568A-27074 | Sequence 27074, A |
| 640 | 27 | 52.9 | 304 | 11 | US-11-188-298-884 | Sequence 884, App |
| 641 | 27 | 52.9 | 306 | 11 | US-11-096-568A-21780 | Sequence 21780, A |
| 642 | 27 | 52.9 | 311 | 11 | US-11-139-041-347 | Sequence 347, App |
| 643 | 27 | 52.9 | 313 | 11 | US-11-139-041-348 | Sequence 348, App |
| 644 | 27 | 52.9 | 314 | 11 | US-11-051-720-1492 | Sequence 1492, Ap |
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| 661 | 27 | 52.9 | 342 | 11 | US-11-087-099-3637 | Sequence 3637, Ap |
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| 669 | 27 | 52.9 | 352 | 11 | US-11-096-568A-21570 | Sequence 21570, A |
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| 674 | 27 | 52.9 | 354 | 11 | US-11-188-298-8976 | Sequence 8976, Ap |
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| 677 | 27 | 52.9 | 356 | 11 | US-11-188-298-2966 | Sequence 2966, Ap |
| 678 | 27 | 52.9 | 356 | 11 | US-11-188-298-9048 | Sequence 9048, Ap |

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| 702 | 27 | 52.9 | 384 | 11 | US-11-139-041-334 | Sequence 334, App |
| 703 | 27 | 52.9 | 384 | 11 | US-11-139-041-340 | Sequence 340, App |
| 704 | 27 | 52.9 | 386 | 11 | US-11-096-568A-21828 | Sequence 21828, A |
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| 726 | 27 | 52.9 | 525 | 9 | US-10-218-784-154 | Sequence 154, App |
| 727 | 27 | 52.9 | 525 | 9 | US-10-219-061-154 | Sequence 154, App |
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| 730 | 27 | 52.9 | 525 | 9 | US-10-233-134-154 | Sequence 154, App |
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| 738 | 27 | 52.9 | 567 | 11 | US-11-176-667-6 | Sequence 6, Appli |
| 739 | 27 | 52.9 | 574 | 11 | US-11-024-959-408 | Sequence 408, App |
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| 745 | 27 | 52.9 | 590 | 11 | US-11-073-460-52 | Sequence 52, Appl |
| 746 | 27 | 52.9 | 595 | 9 | US-10-745-586-61 | Sequence 61, Appl |
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| 750 | 27 | 52.9 | 627 | 11 | US-11-188-298-6685 | Sequence 6685, Ap |
| 751 | 27 | 52.9 | 656 | 11 | US-11-234-786-379 | Sequence 379, App |
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| 759 | 27 | 52.9 | 701 | 11 | US-11-188-298-14136 | Sequence 14136, A |
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| 761 | 27 | 52.9 | 751 | 11 | US-11-051-720-1499 | Sequence 1499, Ap |
| 762 | 27 | 52.9 | 782 | 11 | US-11-051-720-1496 | Sequence 1496, Ap |
| 763 | 27 | 52.9 | 784 | 11 | US-11-051-720-1498 | Sequence 1498, Ap |
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| 770 | 27 | 52.9 | 926 | 11 | US-11-087-099-6667 | Sequence 6667, Ap |
| 771 | 27 | 52.9 | 941 | 11 | US-11-124-367A-313 | Sequence 313, App |
| 772 | 27 | 52.9 | 941 | 11 | US-11-124-367A-315 | Sequence 315, App |
| 773 | 27 | 52.9 | 943 | 9 | US-10-475-204-34 | Sequence 34, Appl |
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| 775 | 27 | 52.9 | 968 | 9 | US-10-506-454-1177 | Sequence 1177, Ap |
| 776 | 27 | 52.9 | 1005 | 11 | US-11-087-099-8623 | Sequence 8623, Ap |
| 777 | 27 | 52.9 | 1005 | 11 | US-11-188-298-19021 | Sequence 19021, A |
| 778 | 27 | 52.9 | 1024 | 9 | US-10-455-772-784 | Sequence 784, App |
| 779 | 27 | 52.9 | 1024 | 9 | US-10-455-772-788 | Sequence 788, App |
| 780 | 27 | 52.9 | 1071 | 11 | US-11-043-752-44 | Sequence 44, Appl |
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| 784 | 27 | 52.9 | 1236 | 11 | US-11-096-568A-27546 | Sequence 27546, A |
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| 786 | 27 | 52.9 | 1405 | 9 | US-10-995-561-529 | Sequence 529, App |
| 787 | 27 | 52.9 | 1406 | 9 | US-10-995-561-530 | Sequence 530, App |
| 788 | 27 | 52.9 | 1432 | 10 | US-11-301-924-18 | Sequence 18, Appl |
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| 791 | 27 | 52.9 | 1452 | 9 | US-10-995-561-778 | Sequence 778, App |
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| 793 | 27 | 52.9 | 1514 | 11 | US-11-188-298-9815 | Sequence 9815, Ap |
| 794 | 27 | 52.9 | 1516 | 9 | US-10-501-035-284 | Sequence 284, App |
| 795 | 27 | 52.9 | 1538 | 11 | US-11-052-554A-146 | Sequence 146, App |
| 796 | 27 | 52.9 | 1591 | 11 | US-11-188-298-17468 | Sequence 17468, A |
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| 801 | 27 | 52.9 | 1745 | 11 | US-11-264-096-2222 | Sequence 2222, Ap |
| 802 | 27 | 52.9 | 2339 | 11 | US-11-096-281-11 | Sequence 11, Appl |
| 803 | 27 | 52.9 | 3387 | 9 | US-10-204-252-24 | Sequence 24, Appl |
| 804 | 27 | 52.9 | 3387 | 9 | US-10-204-252-26 | Sequence 26, Appl |
| 805 | 27 | 52.9 | 3389 | 9 | US-10-204-252-10 | Sequence 10, Appl |
| 806 | 27 | 52.9 | 3390 | 9 | US-10-204-252-20 | Sequence 20, Appl |
| 807 | 27 | 52.9 | 3390 | 9 | US-10-204-252-22 | Sequence 22, Appl |
| 808 | 27 | 52.9 | 3391 | 9 | US-10-204-252-6 | Sequence 6, Appli |
| 809 | 27 | 52.9 | 3391 | 9 | US-10-204-252-8 | Sequence 8, Appli |
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| 811 | 27 | 52.9 | 3391 | 9 | US-10-204-252-14 | Sequence 14, Appl |
| 812 | 27 | 52.9 | 3391 | 9 | US-10-204-252-16 | Sequence 16, Appl |
| 813 | 27 | 52.9 | 3391 | 9 | US-10-204-252-28 | Sequence 28, Appl |
| 814 | 27 | 52.9 | 3392 | 9 | US-10-204-252-2 | Sequence 2, Appli |
| 815 | 27 | 52.9 | 3392 | 9 | US-10-204-252-4 | Sequence 4, Appli |
| 816 | 27 | 52.9 | 3402 | 9 | US-10-204-252-18 | Sequence 18, Appl |
| 817 | 27 | 52.9 | 3433 | 9 | US-10-714-781A-67 | Sequence 67, Appl |
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ALIGNMENTS

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US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
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;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-13

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;  APPLICANT: HealthBanks Biotech CO. LTD.
;  TITLE OF INVENTION: Fusion protein for inhibiting cervcal cancer
;  FILE REFERENCE: P7819/0613
;  CURRENT APPLICATION NUMBER: US/11/206,138
;  CURRENT FILING DATE:  2005-08-18
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: PatentIn version 3.3
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;   ORGANISM: Human papillomavirus type 16
US-11-206-138-3

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; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
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US-10-530-253-1

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;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
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;  PRIOR FILING DATE: 2002-10-03
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US-10-530-253-3

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;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
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US-10-530-253-5

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US-10-530-253-7
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; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-7

  Query Match             100.0%;  Score 51;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.17;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        236 CCRSSRTRR 244


RESULT 7
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-9

  Query Match             100.0%;  Score 51;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.17;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        236 CCRSSRTRR 244


RESULT 8
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-11

  Query Match             100.0%;  Score 51;  DB 9;  Length 248;
```

```
  Best Local Similarity   100.0%;  Pred. No. 0.17;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        236 CCRSSRTRR 244


RESULT 9
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
;  APPLICANT: PANG, XIAOWU
;  TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
;  TITLE OF INVENTION:  RECOMBINANT REPLICON
;  FILE REFERENCE: 116620-003
;  CURRENT APPLICATION NUMBER: US/11/192,923A
;  CURRENT FILING DATE:  2005-07-29
;  PRIOR APPLICATION NUMBER: CN 03115272.4
;  PRIOR FILING DATE: 2003-01-30
;  PRIOR APPLICATION NUMBER: CN 03115273.2
;  PRIOR FILING DATE: 2003-01-30
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
;   LENGTH: 256
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-11-192-923A-2

  Query Match             100.0%;  Score 51;  DB 11;  Length 256;
  Best Local Similarity   100.0%;  Pred. No. 0.17;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||||||||
Db        244 CCRSSRTRR 252


RESULT 10
US-10-530-061-516
; Sequence 516, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 516
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-516

  Query Match             94.1%;  Score 48;  DB 9;  Length 10;
  Best Local Similarity   88.9%;  Pred. No. 0.041;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              ||||||||:
Db          2 CCRSSRTRK 10


RESULT 11
US-10-530-061-513
; Sequence 513, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 513
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-513

  Query Match             90.2%;  Score 46;  DB 9;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.086;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTR 8
              ||||||||
Db          3 CCRSSRTR 10


RESULT 12
US-10-530-061-606
; Sequence 606, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 606
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-606

  Query Match             84.3%;  Score 43;  DB 9;  Length 9;
  Best Local Similarity   87.5%;  Pred. No. 1.9e+05;
  Matches    7;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTR 8
              |||||||:
Db          2 CCRSSRTK 9


RESULT 13
```

US-10-530-061-514
; Sequence 514, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 514
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-514

Query Match 84.3%; Score 43; DB 9; Length 10;
Best Local Similarity 87.5%; Pred. No. 0.26;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCRSSRTR 8
||||||:
Db 3 CCRSSRTK 10

RESULT 14
US-10-530-061-515
; Sequence 515, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 515
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-515

Query Match 82.4%; Score 42; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 CRSSRTRR 9
||||||||
Db 3 CRSSRTRR 10

RESULT 15
US-11-079-463-10120
; Sequence 10120, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 10120
; LENGTH: 101
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-10120

Query Match 82.4%; Score 42; DB 11; Length 101;
Best Local Similarity 77.8%; Pred. No. 2.4;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CCRSSRTRR 9
||||:| ||
Db 29 CCRSARLRR 37

RESULT 16
US-11-096-568A-12659
; Sequence 12659, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 12659
; LENGTH: 144
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(144)
; OTHER INFORMATION: Ceres Seq. ID no. 14302989
US-11-096-568A-12659

Query Match 76.5%; Score 39; DB 11; Length 144;
Best Local Similarity 66.7%; Pred. No. 9.5;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CCRSSRTRR 9
|||: | ||
Db 93 CCRAGRARR 101

RESULT 17
US-10-530-061-605
; Sequence 605, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207

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;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 605
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-605

  Query Match             72.5%;  Score 37;  DB 9;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.9e+05;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CRSSRTR 8
              |||||||
Db          3 CRSSRTR 9


RESULT 18
US-11-201-519-35
; Sequence 35, Application US/11201519
; Publication No. US20060034764A1
; GENERAL INFORMATION:
;  APPLICANT: Reed, Steven G.
;  APPLICANT:  Skeiky, Yasir A.W.
;  APPLICANT:  Dillon, Davin C.
;  APPLICANT:  Alderson, Mark
;  APPLICANT:  Campos-Neto, Antonio
;  APPLICANT:  Corixa Corporation
;  TITLE OF INVENTION: Fusion Protiens of Mycobacterium tuberculosis Antigens
;  TITLE OF INVENTION:  and Their Uses
;  FILE REFERENCE: 014058-009020US
;  CURRENT APPLICATION NUMBER: US/11/201,519
;  CURRENT FILING DATE:  2005-08-10
;  PRIOR APPLICATION NUMBER: US/10/359,460
;  PRIOR FILING DATE: 2003-02-05
;  PRIOR APPLICATION NUMBER: US/09/287,849
;  PRIOR FILING DATE: 1999-04-07
;  PRIOR APPLICATION NUMBER: US 08/818,112
;  PRIOR FILING DATE: 1997-03-13
;  PRIOR APPLICATION NUMBER: US 08/942,578
;  PRIOR FILING DATE: 1997-10-01
;  PRIOR APPLICATION NUMBER: US 09/025,197
;  PRIOR FILING DATE: 1998-02-18
;  PRIOR APPLICATION NUMBER: US 09/056,556
;  PRIOR FILING DATE: 1998-04-07
;  PRIOR APPLICATION NUMBER: US 09/223,040
;  PRIOR FILING DATE: 1998-12-30
;  NUMBER OF SEQ ID NOS: 46
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
;   LENGTH: 93
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:peptide of
US-11-201-519-35

  Query Match             72.5%;  Score 37;  DB 11;  Length 93;
  Best Local Similarity   66.7%;  Pred. No. 14;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||  | ||
Db         45 CCRQQRQRR 53


RESULT 19
US-11-096-568A-23117
; Sequence 23117, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 23117
;   LENGTH: 104
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(104)
;   OTHER INFORMATION: Ceres Seq. ID no. 12411336
US-11-096-568A-23117

  Query Match             70.6%;  Score 36;  DB 11;  Length 104;
  Best Local Similarity   75.0%;  Pred. No. 22;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTR 8
              ||  ||||
Db         93 CCSGSRTR 100


RESULT 20
US-10-982-145-72
; Sequence 72, Application US/10982145
; Publication No. US20050272645A1
; GENERAL INFORMATION:
;  APPLICANT: Robert Lehrer
;  APPLICANT:  Alan Waring
;  APPLICANT:  Alexander Cole
;  APPLICANT:  Teresa Hong
;  TITLE OF INVENTION: Retrocyclins: Antiviral and
;  TITLE OF INVENTION:  Antimicrobial Peptides
;  FILE REFERENCE: UCLA-001CIP2
;  CURRENT APPLICATION NUMBER: US/10/982,145
;  CURRENT FILING DATE:  2004-11-05
;  PRIOR APPLICATION NUMBER: US03/14106
;  PRIOR FILING DATE: 2003-05-06
;  PRIOR APPLICATION NUMBER: 10/141,645
;  PRIOR FILING DATE: 2002-05-06
;  PRIOR APPLICATION NUMBER: US02/12353
;  PRIOR FILING DATE: 2002-04-18
;  PRIOR APPLICATION NUMBER: 60/284,855
;  PRIOR FILING DATE: 2001-04-18
;  NUMBER OF SEQ ID NOS: 135
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 72
;   LENGTH: 141
;   TYPE: PRT
;   ORGANISM: Rhesus monkey
;   FEATURE:
;   NAME/KEY: VARIANT
;   LOCATION: 113
;   OTHER INFORMATION: Xaa = Any Amino Acid
US-10-982-145-72

  Query Match             70.6%;  Score 36;  DB 9;  Length 141;
  Best Local Similarity   55.6%;  Pred. No. 28;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||:|| ::
Db         95 CCRASRIKK 103


RESULT 21
US-10-982-145-73
; Sequence 73, Application US/10982145
```

```
; Publication No. US20050272645A1
; GENERAL INFORMATION:
;  APPLICANT: Robert Lehrer
;  APPLICANT:  Alan Waring
;  APPLICANT:  Alexander Cole
;  APPLICANT:  Teresa Hong
;  TITLE OF INVENTION: Retrocyclins: Antiviral and
;  TITLE OF INVENTION:  Antimicrobial Peptides
;  FILE REFERENCE: UCLA-001CIP2
;  CURRENT APPLICATION NUMBER: US/10/982,145
;  CURRENT FILING DATE:  2004-11-05
;  PRIOR APPLICATION NUMBER: US03/14106
;  PRIOR FILING DATE: 2003-05-06
;  PRIOR APPLICATION NUMBER: 10/141,645
;  PRIOR FILING DATE: 2002-05-06
;  PRIOR APPLICATION NUMBER: US02/12353
;  PRIOR FILING DATE: 2002-04-18
;  PRIOR APPLICATION NUMBER: 60/284,855
;  PRIOR FILING DATE: 2001-04-18
;  NUMBER OF SEQ ID NOS: 135
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 73
;   LENGTH: 141
;   TYPE: PRT
;   ORGANISM: Pig-tailed macaque
;   FEATURE:
;   NAME/KEY: VARIANT
;   LOCATION: 113
;   OTHER INFORMATION: Xaa = Any Amino Acid
US-10-982-145-73

  Query Match             70.6%;  Score 36;  DB 9;  Length 141;
  Best Local Similarity   55.6%;  Pred. No. 28;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||:|| ::
Db         95 CCRASRIKK 103


RESULT 22
US-11-096-568A-33215
; Sequence 33215, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 33215
;   LENGTH: 303
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(303)
;   OTHER INFORMATION: Ceres Seq. ID no. 13602441
US-11-096-568A-33215

  Query Match             70.6%;  Score 36;  DB 11;  Length 303;
  Best Local Similarity   66.7%;  Pred. No. 52;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              ||  || ||
Db         70 CCHGSRDRR 78


RESULT 23
US-11-096-568A-33214
; Sequence 33214, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides I
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 33214
;   LENGTH: 413
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(413)
;   OTHER INFORMATION: Ceres Seq. ID no. 13602440
US-11-096-568A-33214

  Query Match             70.6%;  Score 36;  DB 11;  Length 413;
  Best Local Similarity   66.7%;  Pred. No. 66;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              ||  || ||
Db        180 CCHGSRDRR 188


RESULT 24
US-11-096-568A-33213
; Sequence 33213, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides I
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 33213
;   LENGTH: 422
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(422)
;   OTHER INFORMATION: Ceres Seq. ID no. 13602439
US-11-096-568A-33213

  Query Match             70.6%;  Score 36;  DB 11;  Length 422;
  Best Local Similarity   66.7%;  Pred. No. 68;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              ||  || ||
Db        189 CCHGSRDRR 197


RESULT 25
US-11-079-463-7574
; Sequence 7574, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PATH00-03DIV2
;  CURRENT APPLICATION NUMBER: US/11/079,463
;  CURRENT FILING DATE:  2005-03-14
;  PRIOR APPLICATION NUMBER: US 60/128,705
;  PRIOR FILING DATE: 1999-04-09
```

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;  PRIOR APPLICATION NUMBER: US 09/540,209
;  PRIOR FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 7574
;   LENGTH: 522
;   TYPE: PRT
;   ORGANISM: B.fragilis
US-11-079-463-7574

  Query Match             70.6%;  Score 36;  DB 11;  Length 522;
  Best Local Similarity   100.0%;  Pred. No. 80;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSR 6
              ||||||
Db        514 CCRSSR 519


RESULT 26
US-11-004-399-3215
; Sequence 3215, Application US/11004399
; Publication No. US20060053516A1
; GENERAL INFORMATION:
;  APPLICANT: Chye, Mee Lee
;  APPLICANT:  Li, Hong Ye
;  APPLICANT:  Ramalingam, Sathiskumar
;  APPLICANT:  Poon, Leo Lit Man
;  APPLICANT:  Peiris, Joseph Sriyal Malik
;  TITLE OF INVENTION: Genetically Modified Plants Comprising SARS-CoV Viral Nucleotide
;  TITLE OF INVENTION:  Sequences and Methods of Use Thereof For Immunization Against SA
;  FILE REFERENCE: 2587/73166/RDK
;  CURRENT APPLICATION NUMBER: US/11/004,399
;  CURRENT FILING DATE:  2004-12-03
;  PRIOR APPLICATION NUMBER: US 60/527,637
;  PRIOR FILING DATE: 2003-12-03
;  NUMBER OF SEQ ID NOS: 4043
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3215
;   LENGTH: 33
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: pCV2
US-11-004-399-3215

  Query Match             68.6%;  Score 35;  DB 11;  Length 33;
  Best Local Similarity   66.7%;  Pred. No. 13;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              || | | ||
Db         25 CCNSLRARR 33


RESULT 27
US-10-821-234-1130
; Sequence 1130, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
;  APPLICANT: Labat, Ivan
;  APPLICANT:  Stache-Crain, Birgit
;  APPLICANT:  Andarmani, Susan
;  APPLICANT:  Tang, Y. Tom
;  TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
;  FILE REFERENCE: 821A
;  CURRENT APPLICATION NUMBER: US/10/821,234
;  CURRENT FILING DATE:  2004-04-07
;  PRIOR APPLICATION NUMBER: US 60/462,047
;  PRIOR FILING DATE: 2003-04-07
;  NUMBER OF SEQ ID NOS: 1704
;  SOFTWARE: pt_SEQ_genes Version 1.0
; SEQ ID NO 1130
;   LENGTH: 185
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-821-234-1130

  Query Match             68.6%;  Score 35;  DB 9;  Length 185;
  Best Local Similarity   55.6%;  Pred. No. 51;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||  |:|:
Db        125 CCRRKRSRK 133


RESULT 28
US-11-096-568A-26773
; Sequence 26773, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 26773
;   LENGTH: 204
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(204)
;   OTHER INFORMATION: Ceres Seq. ID no. 13600327
US-11-096-568A-26773

  Query Match             68.6%;  Score 35;  DB 11;  Length 204;
  Best Local Similarity   66.7%;  Pred. No. 55;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              ||| | | ||
Db        127 CCRRCRRRR 135


RESULT 29
US-11-096-568A-1257
; Sequence 1257, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1257
;   LENGTH: 251
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(251)
;   OTHER INFORMATION: Ceres Seq. ID no. 13624031
US-11-096-568A-1257

  Query Match             68.6%;  Score 35;  DB 11;  Length 251;
  Best Local Similarity   66.7%;  Pred. No. 65;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              ||| | | ||
Db        174 CCRRCRRRR 182
```

```
RESULT 30
US-11-096-568A-1259
; Sequence 1259, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1259
;   LENGTH: 251
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(251)
;   OTHER INFORMATION: Ceres Seq. ID no. 16625722
US-11-096-568A-1259

  Query Match             68.6%;  Score 35;  DB 11;  Length 251;
  Best Local Similarity   66.7%;  Pred. No. 65;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||   | ||
Db        174 CCRRCRRRR 182


RESULT 31
US-11-096-568A-1256
; Sequence 1256, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1256
;   LENGTH: 280
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(280)
;   OTHER INFORMATION: Ceres Seq. ID no. 13624030
US-11-096-568A-1256

  Query Match             68.6%;  Score 35;  DB 11;  Length 280;
  Best Local Similarity   66.7%;  Pred. No. 71;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||   | ||
Db        203 CCRRCRRRR 211


RESULT 32
US-11-087-099-575
; Sequence 575, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 575
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Agrobacterium tumefaciens str. C58 (Cereon)
US-11-087-099-575

  Query Match             68.6%;  Score 35;  DB 11;  Length 371;
  Best Local Similarity   85.7%;  Pred. No. 88;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CCRSSRT 7
              ||| |||
Db          3 CCRFSRT 9


RESULT 33
US-11-096-568A-22755
; Sequence 22755, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 22755
;   LENGTH: 414
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(414)
;   OTHER INFORMATION: Ceres Seq. ID no. 12409897
US-11-096-568A-22755

  Query Match             68.6%;  Score 35;  DB 11;  Length 414;
  Best Local Similarity   66.7%;  Pred. No. 96;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||:|  ||
Db         85 CCRTSSWRR 93


RESULT 34
US-11-234-786-547
; Sequence 547, Application US/11234786
; Publication No. US20060024301A1
; GENERAL INFORMATION:
;  APPLICANT: Xu, Jiangchun
;  APPLICANT:  Dillon, Davin C.
;  APPLICANT:  Mitcham, Jennifer L.
;  APPLICANT:  Harlocker, Susan L.
;  APPLICANT:  Jiang, Yuqiu
;  APPLICANT:  Reed, Steven G.
;  APPLICANT:  Kalos, Michael D.
;  APPLICANT:  Fanger, Gary R.
;  APPLICANT:  Retter, Marc W.
;  APPLICANT:  Stolk, John A.
;  APPLICANT:  Day, Craig H.
;  APPLICANT:  Vedvick, Thomas S.
;  APPLICANT:  Carter, Darrick
;  APPLICANT:  Li, Samuel X.
;  APPLICANT:  Wang, Aijun
;  APPLICANT:  Skeiky, Yasir A.
;  TITLE OF INVENTION: PROSTATE-SPECIFIC POLYPEPTIDES AND FUSION
;  TITLE OF INVENTION:  POLYPEPTIDES THEREOF
;  FILE REFERENCE: 210121.427C31
;  CURRENT APPLICATION NUMBER: US/11/234,786
```

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;  CURRENT FILING DATE:  2005-09-23
;  PRIOR APPLICATION NUMBER: US 09/568,857
;  PRIOR FILING DATE: 2000-05-09
;  PRIOR APPLICATION NUMBER: US 09/536,857
;  PRIOR FILING DATE: 2000-05-27
;  PRIOR APPLICATION NUMBER: US 09/483,672
;  PRIOR FILING DATE: 2000-01-14
;  PRIOR APPLICATION NUMBER: US 09/439,313
;  PRIOR FILING DATE: 1999-11-12
;  PRIOR APPLICATION NUMBER: US 09/352,616
;  PRIOR FILING DATE: 1999-07-13
;  PRIOR APPLICATION NUMBER: US 09/288,946
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/232,149
;  PRIOR FILING DATE: 1999-01-15
;  PRIOR APPLICATION NUMBER: US 09/159,812
;  PRIOR FILING DATE: 1998-09-23
;  PRIOR APPLICATION NUMBER: US 09/115,453
;  PRIOR FILING DATE: 1998-07-14
;  PRIOR APPLICATION NUMBER: US 09/030,607
;  PRIOR FILING DATE: 1998-02-25
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 701
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 547
;   LENGTH: 58
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-234-786-547

  Query Match             66.7%;  Score 34;  DB 11;  Length 58;
  Best Local Similarity   66.7%;  Pred. No. 30;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||  || |
Db         48 CCRMPRTLR 56


RESULT 35
US-11-096-568A-25592
; Sequence 25592, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 25592
;   LENGTH: 175
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(175)
;   OTHER INFORMATION: Ceres Seq. ID no. 13492511
US-11-096-568A-25592

  Query Match             66.7%;  Score 34;  DB 11;  Length 175;
  Best Local Similarity   66.7%;  Pred. No. 71;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              || | | ||
Db          6 CCSSHRRRR 14


RESULT 36
US-11-096-568A-18072
; Sequence 18072, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 18072
;   LENGTH: 320
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(320)
;   OTHER INFORMATION: Ceres Seq. ID no. 12362591
US-11-096-568A-18072

  Query Match             66.7%;  Score 34;  DB 11;  Length 320;
  Best Local Similarity   62.5%;  Pred. No. 1.1e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTR 8
              || ::|||
Db         74 CCSAARTR 81


RESULT 37
US-11-264-096-852
; Sequence 852, Application US/11264096
; Publication No. US20060084794A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Albumin Fusion Proteins
;  FILE REFERENCE: PF546D1
;  CURRENT APPLICATION NUMBER: US/11/264,096
;  CURRENT FILING DATE:  2005-11-02
;  PRIOR APPLICATION NUMBER: 09/833,245
;  PRIOR FILING DATE: 2001-04-12
;  PRIOR APPLICATION NUMBER: 60/229, 358
;  PRIOR FILING DATE: 2000-04-12
;  PRIOR APPLICATION NUMBER: 60/256, 931
;  PRIOR FILING DATE: 2000-12-21
;  PRIOR APPLICATION NUMBER: 60/199, 384
;  PRIOR FILING DATE: 2000-04-25
;  NUMBER OF SEQ ID NOS: 2267
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 852
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (20)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-11-264-096-852

  Query Match             66.7%;  Score 34;  DB 11;  Length 371;
  Best Local Similarity   66.7%;  Pred. No. 1.3e+02;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||  || |
Db        238 CCRMPRTLR 246


RESULT 38
US-11-188-298-20370
; Sequence 20370, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
```

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;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 20370
;    LENGTH: 384
;    TYPE: PRT
;    ORGANISM: Nicotiana tabacum
US-11-188-298-20370

  Query Match             66.7%;  Score 34;  DB 11;  Length 384;
  Best Local Similarity   75.0%;  Pred. No. 1.3e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTR 8
              || | |||
Db        229 CCVSERTR 236


RESULT 39
US-11-234-786-113
; Sequence 113, Application US/11234786
; Publication No. US20060024301A1
; GENERAL INFORMATION:
;  APPLICANT: Xu, Jiangchun
;  APPLICANT:  Dillon, Davin C.
;  APPLICANT:  Mitcham, Jennifer L.
;  APPLICANT:  Harlocker, Susan L.
;  APPLICANT:  Jiang, Yuqiu
;  APPLICANT:  Reed, Steven G.
;  APPLICANT:  Kalos, Michael D.
;  APPLICANT:  Fanger, Gary R.
;  APPLICANT:  Retter, Marc W.
;  APPLICANT:  Stolk, John A.
;  APPLICANT:  Day, Craig H.
;  APPLICANT:  Vedvick, Thomas S.
;  APPLICANT:  Carter, Darrick
;  APPLICANT:  Li, Samuel X.
;  APPLICANT:  Wang, Aijun
;  APPLICANT:  Skeiky, Yasir A.
;  TITLE OF INVENTION: PROSTATE-SPECIFIC POLYPEPTIDES AND FUSION
;  TITLE OF INVENTION:  POLYPEPTIDES THEREOF
;  FILE REFERENCE: 210121.427C31
;  CURRENT APPLICATION NUMBER: US/11/234,786
;  CURRENT FILING DATE:  2005-09-23
;  PRIOR APPLICATION NUMBER: US 09/568,857
;  PRIOR FILING DATE: 2000-05-09
;  PRIOR APPLICATION NUMBER: US 09/536,857
;  PRIOR FILING DATE: 2000-05-27
;  PRIOR APPLICATION NUMBER: US 09/483,672
;  PRIOR FILING DATE: 2000-01-14
;  PRIOR APPLICATION NUMBER: US 09/439,313
;  PRIOR FILING DATE: 1999-11-12
;  PRIOR APPLICATION NUMBER: US 09/352,616
;  PRIOR FILING DATE: 1999-07-13
;  PRIOR APPLICATION NUMBER: US 09/288,946
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/232,149
;  PRIOR FILING DATE: 1999-01-15
;  PRIOR APPLICATION NUMBER: US 09/159,812
;  PRIOR FILING DATE: 1998-09-23
;  PRIOR APPLICATION NUMBER: US 09/115,453
;  PRIOR FILING DATE: 1998-07-14
;  PRIOR APPLICATION NUMBER: US 09/030,607
;  PRIOR FILING DATE: 1998-02-25
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 701
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 113
;    LENGTH: 553
;    TYPE: PRT
;    ORGANISM: Homo sapien
US-11-234-786-113

  Query Match             66.7%;  Score 34;  DB 11;  Length 553;
  Best Local Similarity   66.7%;  Pred. No. 1.8e+02;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              |||  || |
Db        264 CCRMPRTLR 272


RESULT 40
US-11-096-568A-10776
; Sequence 10776, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 10776
;    LENGTH: 85
;    TYPE: PRT
;    ORGANISM: Triticum aestivum
;    FEATURE:
;    NAME/KEY: misc_feature
;    LOCATION: (1)..(85)
;    OTHER INFORMATION: Ceres Seq. ID no. 13597153
US-11-096-568A-10776

  Query Match             65.7%;  Score 33.5;  DB 11;  Length 85;
  Best Local Similarity   80.0%;  Pred. No. 48;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    1;  Gaps    1;

Qy          1 CCRS-SRTRR 9
              || | |||||
Db          6 CCGSGSRTRR 15


RESULT 41
US-11-096-568A-10774
; Sequence 10774, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 10774
;    LENGTH: 149
;    TYPE: PRT
;    ORGANISM: Triticum aestivum
;    FEATURE:
;    NAME/KEY: misc_feature
;    LOCATION: (1)..(149)
;    OTHER INFORMATION: Ceres Seq. ID no. 13597151
US-11-096-568A-10774

  Query Match             65.7%;  Score 33.5;  DB 11;  Length 149;
  Best Local Similarity   80.0%;  Pred. No. 75;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    1;  Gaps    1;

Qy          1 CCRS-SRTRR 9
              || | |||||
Db         70 CCGSGSRTRR 79
```

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RESULT 42
US-10-485-788A-625
; Sequence 625, Application US/10485788A
; Publication No. US20050282743A1
; GENERAL INFORMATION:
;  APPLICANT: Lu, Peter S.
;  APPLICANT:  Rabinowitz, Joshua D.
;  APPLICANT:  Schweizer, Johannes
;  APPLICANT:  Carrick, Deanna Marie
;  APPLICANT:  Arbor Vita Corporation
;  TITLE OF INVENTION: Molecular Interactions in Cells
;  FILE REFERENCE: 20054-003320US
;  CURRENT APPLICATION NUMBER: US/10/485,788A
;  CURRENT FILING DATE:  2004-02-03
;  PRIOR APPLICATION NUMBER: US 60/309,841
;  PRIOR FILING DATE: 2001-08-03
;  PRIOR APPLICATION NUMBER: US 60/360,061
;  PRIOR FILING DATE: 2002-02-25
;  PRIOR APPLICATION NUMBER: WO PCT/US02/24655
;  PRIOR FILING DATE: 2002-08-02
;  NUMBER OF SEQ ID NOS: 841
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 625
;   LENGTH: 19
;   TYPE: PRT
;   ORGANISM: Human papillomavirus strain #16 (modified)
US-10-485-788A-625

  Query Match             64.7%;  Score 33;  DB 9;  Length 19;
  Best Local Similarity   100.0%;  Pred. No. 18;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 RSSRTRR 9
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Db          9 RSSRTRR 15


RESULT 43
US-11-096-568A-23996
; Sequence 23996, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 23996
;   LENGTH: 190
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(190)
;   OTHER INFORMATION: Ceres Seq. ID no. 12417446
US-11-096-568A-23996

  Query Match             64.7%;  Score 33;  DB 11;  Length 190;
  Best Local Similarity   71.4%;  Pred. No. 1.1e+02;
  Matches    5;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRT 7
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Db         49 CCRQGRT 55


RESULT 44
US-11-096-568A-4156
; Sequence 4156, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 4156
;   LENGTH: 238
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(238)
;   OTHER INFORMATION: Ceres Seq. ID no. 13595053
US-11-096-568A-4156

  Query Match             64.7%;  Score 33;  DB 11;  Length 238;
  Best Local Similarity   75.0%;  Pred. No. 1.3e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 CRSSRTRR 9
              ||  ||||
Db        138 CRQRRTRR 145


RESULT 45
US-11-096-568A-20616
; Sequence 20616, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 20616
;   LENGTH: 274
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(274)
;   OTHER INFORMATION: Ceres Seq. ID no. 12383535
US-11-096-568A-20616

  Query Match             64.7%;  Score 33;  DB 11;  Length 274;
  Best Local Similarity   83.3%;  Pred. No. 1.5e+02;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSR 6
              |||:||
Db        215 CCRASR 220


RESULT 46
US-11-096-568A-11541
; Sequence 11541, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 11541
;   LENGTH: 278
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;   TYPE: PRT
;   ORGANISM: Triticum aestivum
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(278)
;   OTHER INFORMATION: Ceres Seq. ID no. 13655247
US-11-096-568A-11541

  Query Match             64.7%;  Score 33;  DB 11;  Length 278;
  Best Local Similarity   55.6%;  Pred. No. 1.5e+02;
  Matches    5;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              ||  || :|
Db         42 CCHGSRDKR 50


RESULT 47
US-11-096-568A-20615
; Sequence 20615, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 20615
;   LENGTH: 340
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(340)
;   OTHER INFORMATION: Ceres Seq. ID no. 12383534
US-11-096-568A-20615

  Query Match             64.7%;  Score 33;  DB 11;  Length 340;
  Best Local Similarity   83.3%;  Pred. No. 1.7e+02;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSR 6
              |||:||
Db        281 CCRASR 286


RESULT 48
US-11-096-568A-20614
; Sequence 20614, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 20614
;   LENGTH: 360
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(360)
;   OTHER INFORMATION: Ceres Seq. ID no. 12383533
US-11-096-568A-20614

  Query Match             64.7%;  Score 33;  DB 11;  Length 360;
  Best Local Similarity   83.3%;  Pred. No. 1.8e+02;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCRSSR 6
              |||:||
Db        301 CCRASR 306


RESULT 49
US-11-096-568A-11540
; Sequence 11540, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 11540
;   LENGTH: 407
;   TYPE: PRT
;   ORGANISM: Triticum aestivum
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(407)
;   OTHER INFORMATION: Ceres Seq. ID no. 13655246
US-11-096-568A-11540

  Query Match             64.7%;  Score 33;  DB 11;  Length 407;
  Best Local Similarity   55.6%;  Pred. No. 2e+02;
  Matches    5;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              ||  || :|
Db        171 CCHGSRDKR 179


RESULT 50
US-11-087-099-5083
; Sequence 5083, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 5083
;   LENGTH: 422
;   TYPE: PRT
;   ORGANISM: Streptomyces coelicolor A3(2)
US-11-087-099-5083

  Query Match             64.7%;  Score 33;  DB 11;  Length 422;
  Best Local Similarity   77.8%;  Pred. No. 2.1e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCRSSRTRR 9
              | |||| ||
Db        401 CGRSSRPRR 409


Search completed: May  5, 2006, 07:45:53
Job time : 19.4 secs
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OM protein - protein search, using sw model

Run on: May 5, 2006, 01:38:21 ; Search time 20.8 Seconds
(without alignments)
35.773 Million cell updates/sec

Title: US-08-170-344-59
Perfect score: 58
Sequence: 1 HYNIVTFCC 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Issued_Patents_AA:*
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2: /cgn2_6/ptodata/1/iaa/6_COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/H_COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/RE_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
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| 1 | 58 | 100.0 | 9 | 2 | US-10-365-908-9 | Sequence 9, Appli |
| 2 | 58 | 100.0 | 12 | 2 | US-08-075-541D-27 | Sequence 27, Appl |
| 3 | 58 | 100.0 | 13 | 2 | US-08-075-541D-28 | Sequence 28, Appl |
| 4 | 58 | 100.0 | 14 | 2 | US-08-075-541D-29 | Sequence 29, Appl |
| 5 | 58 | 100.0 | 15 | 2 | US-08-075-541D-18 | Sequence 18, Appl |
| 6 | 58 | 100.0 | 17 | 2 | US-08-075-541D-25 | Sequence 25, Appl |
| 7 | 58 | 100.0 | 17 | 2 | US-09-980-523A-16 | Sequence 16, Appl |
| 8 | 58 | 100.0 | 18 | 2 | US-08-075-541D-30 | Sequence 30, Appl |
| 9 | 58 | 100.0 | 19 | 2 | US-08-075-541D-3 | Sequence 3, Appli |
| 10 | 58 | 100.0 | 20 | 1 | US-08-934-915-48 | Sequence 48, Appl |
| 11 | 58 | 100.0 | 20 | 1 | US-08-934-915-155 | Sequence 155, App |
| 12 | 58 | 100.0 | 20 | 2 | US-08-075-541D-10 | Sequence 10, Appl |
| 13 | 58 | 100.0 | 20 | 2 | US-09-980-177A-73 | Sequence 73, Appl |
| 14 | 58 | 100.0 | 25 | 2 | US-08-075-541D-47 | Sequence 47, Appl |
| 15 | 58 | 100.0 | 26 | 2 | US-08-075-541D-20 | Sequence 20, Appl |
| 16 | 58 | 100.0 | 30 | 1 | US-08-934-915-52 | Sequence 52, Appl |
| 17 | 58 | 100.0 | 30 | 2 | US-09-486-394-3 | Sequence 3, Appli |
| 18 | 58 | 100.0 | 32 | 2 | US-08-075-541D-7 | Sequence 7, Appli |
| 19 | 58 | 100.0 | 32 | 2 | US-08-075-541D-8 | Sequence 8, Appli |
| 20 | 58 | 100.0 | 38 | 2 | US-09-501-097A-6 | Sequence 6, Appli |
| 21 | 58 | 100.0 | 98 | 1 | US-08-406-248-6 | Sequence 6, Appli |
| 22 | 58 | 100.0 | 98 | 2 | US-08-075-541D-42 | Sequence 42, Appl |
| 23 | 58 | 100.0 | 98 | 2 | US-09-382-616A-1 | Sequence 1, Appli |
| 24 | 58 | 100.0 | 98 | 2 | US-08-944-368A-4 | Sequence 4, Appli |
| 25 | 58 | 100.0 | 98 | 2 | US-09-820-764-4 | Sequence 4, Appli |
| 26 | 58 | 100.0 | 98 | 2 | US-09-613-303-8 | Sequence 8, Appli |
| 27 | 58 | 100.0 | 98 | 2 | US-09-566-420-19 | Sequence 19, Appl |
| 28 | 58 | 100.0 | 98 | 2 | US-09-986-118A-4 | Sequence 4, Appli |
| 29 | 58 | 100.0 | 98 | 2 | US-09-728-466-1 | Sequence 1, Appli |
| 30 | 58 | 100.0 | 98 | 2 | US-09-824-017-4 | Sequence 4, Appli |
| 31 | 58 | 100.0 | 98 | 2 | US-10-267-311-8 | Sequence 8, Appli |
| 32 | 58 | 100.0 | 98 | 2 | US-10-201-764-19 | Sequence 19, Appl |
| 33 | 58 | 100.0 | 98 | 2 | US-09-637-746-3 | Sequence 3, Appli |
| 34 | 58 | 100.0 | 98 | 2 | US-09-501-097A-7 | Sequence 7, Appli |
| 35 | 58 | 100.0 | 98 | 2 | US-09-980-523A-12 | Sequence 12, Appl |
| 36 | 58 | 100.0 | 121 | 2 | US-09-613-303-12 | Sequence 12, Appl |
| 37 | 58 | 100.0 | 121 | 2 | US-10-267-311-12 | Sequence 12, Appl |
| 38 | 58 | 100.0 | 172 | 2 | US-08-860-165-12 | Sequence 12, Appl |
| 39 | 58 | 100.0 | 172 | 2 | US-08-860-165-14 | Sequence 14, Appl |
| 40 | 58 | 100.0 | 172 | 2 | US-09-359-382-12 | Sequence 12, Appl |
| 41 | 58 | 100.0 | 172 | 2 | US-09-359-382-14 | Sequence 14, Appl |
| 42 | 58 | 100.0 | 185 | 2 | US-09-462-993-2 | Sequence 2, Appli |
| 43 | 58 | 100.0 | 198 | 2 | US-09-613-303-35 | Sequence 35, Appl |
| 44 | 58 | 100.0 | 198 | 2 | US-10-267-311-35 | Sequence 35, Appl |
| 45 | 58 | 100.0 | 220 | 2 | US-09-485-885-1 | Sequence 1, Appli |
| 46 | 58 | 100.0 | 220 | 2 | US-09-485-885-8 | Sequence 8, Appli |
| 47 | 58 | 100.0 | 239 | 2 | US-09-485-885-12 | Sequence 12, Appl |
| 48 | 58 | 100.0 | 253 | 1 | US-08-459-818-20 | Sequence 20, Appl |
| 49 | 58 | 100.0 | 253 | 1 | US-08-889-666-20 | Sequence 20, Appl |
| 50 | 58 | 100.0 | 253 | 1 | US-08-465-078-20 | Sequence 20, Appl |
| 51 | 58 | 100.0 | 253 | 1 | US-08-725-776-20 | Sequence 20, Appl |
| 52 | 58 | 100.0 | 253 | 1 | US-08-488-062-20 | Sequence 20, Appl |
| 53 | 58 | 100.0 | 263 | 1 | US-08-117-083-9 | Sequence 9, Appli |
| 54 | 58 | 100.0 | 266 | 2 | US-08-860-165-10 | Sequence 10, Appl |
| 55 | 58 | 100.0 | 266 | 2 | US-09-359-382-10 | Sequence 10, Appl |
| 56 | 58 | 100.0 | 266 | 2 | US-09-367-309A-1 | Sequence 1, Appli |
| 57 | 58 | 100.0 | 287 | 2 | US-09-501-097A-25 | Sequence 25, Appl |
| 58 | 58 | 100.0 | 295 | 2 | US-09-613-303-33 | Sequence 33, Appl |
| 59 | 58 | 100.0 | 295 | 2 | US-10-267-311-33 | Sequence 33, Appl |
| 60 | 58 | 100.0 | 324 | 2 | US-09-613-303-25 | Sequence 25, Appl |
| 61 | 58 | 100.0 | 324 | 2 | US-10-267-311-25 | Sequence 25, Appl |
| 62 | 58 | 100.0 | 371 | 2 | US-09-485-885-6 | Sequence 6, Appli |
| 63 | 58 | 100.0 | 390 | 2 | US-09-485-885-14 | Sequence 14, Appl |
| 64 | 58 | 100.0 | 420 | 2 | US-09-501-097A-22 | Sequence 22, Appl |
| 65 | 58 | 100.0 | 493 | 2 | US-09-613-303-19 | Sequence 19, Appl |
| 66 | 58 | 100.0 | 493 | 2 | US-10-267-311-19 | Sequence 19, Appl |
| 67 | 58 | 100.0 | 639 | 2 | US-09-613-303-17 | Sequence 17, Appl |
| 68 | 58 | 100.0 | 639 | 2 | US-10-267-311-17 | Sequence 17, Appl |
| 69 | 58 | 100.0 | 641 | 2 | US-09-613-303-51 | Sequence 51, Appl |
| 70 | 58 | 100.0 | 641 | 2 | US-10-267-311-51 | Sequence 51, Appl |
| 71 | 58 | 100.0 | 647 | 2 | US-09-613-303-53 | Sequence 53, Appl |
| 72 | 58 | 100.0 | 647 | 2 | US-10-267-311-53 | Sequence 53, Appl |
| 73 | 58 | 100.0 | 648 | 2 | US-09-613-303-29 | Sequence 29, Appl |
| 74 | 58 | 100.0 | 648 | 2 | US-10-267-311-29 | Sequence 29, Appl |
| 75 | 58 | 100.0 | 711 | 2 | US-09-613-303-41 | Sequence 41, Appl |
| 76 | 58 | 100.0 | 711 | 2 | US-10-267-311-41 | Sequence 41, Appl |
| 77 | 58 | 100.0 | 723 | 2 | US-09-501-097A-20 | Sequence 20, Appl |
| 78 | 58 | 100.0 | 724 | 2 | US-09-613-303-45 | Sequence 45, Appl |
| 79 | 58 | 100.0 | 724 | 2 | US-10-267-311-45 | Sequence 45, Appl |
| 80 | 49 | 84.5 | 9 | 2 | US-10-365-908-40 | Sequence 40, Appl |
| 81 | 49 | 84.5 | 14 | 2 | US-08-075-541D-56 | Sequence 56, Appl |
| 82 | 44 | 75.9 | 9 | 2 | US-10-365-908-59 | Sequence 59, Appl |
| 83 | 44 | 75.9 | 601 | 1 | US-08-606-288-7 | Sequence 7, Appli |
| 84 | 44 | 75.9 | 601 | 1 | US-08-606-288-10 | Sequence 10, Appl |
| 85 | 44 | 75.9 | 601 | 2 | US-09-347-483-7 | Sequence 7, Appli |
| 86 | 44 | 75.9 | 601 | 2 | US-09-347-483-10 | Sequence 10, Appl |
| 87 | 41 | 70.7 | 9 | 2 | US-10-365-908-111 | Sequence 111, App |
| 88 | 40 | 69.0 | 9 | 2 | US-08-159-339A-138 | Sequence 138, App |
| 89 | 40 | 69.0 | 9 | 2 | US-08-159-339A-227 | Sequence 227, App |
| 90 | 40 | 69.0 | 9 | 2 | US-09-593-870A-25 | Sequence 25, Appl |
| 91 | 40 | 69.0 | 9 | 2 | US-09-000-003A-5 | Sequence 5, Appli |
| 92 | 40 | 69.0 | 9 | 2 | US-09-501-097A-5 | Sequence 5, Appli |
| 93 | 40 | 69.0 | 9 | 2 | US-10-365-908-48 | Sequence 48, Appl |
| 94 | 40 | 69.0 | 10 | 2 | US-10-365-908-32 | Sequence 32, Appl |
| 95 | 40 | 69.0 | 14 | 2 | US-08-075-541D-4 | Sequence 4, Appli |
| 96 | 40 | 69.0 | 15 | 2 | US-09-601-729-279 | Sequence 279, App |
| 97 | 40 | 69.0 | 59 | 2 | US-09-390-027-6 | Sequence 6, Appli |
| 98 | 40 | 69.0 | 375 | 2 | US-09-000-094-22 | Sequence 22, Appl |
| 99 | 40 | 69.0 | 375 | 2 | US-10-011-749-22 | Sequence 22, Appl |
| 100 | 40 | 69.0 | 465 | 2 | US-09-000-094-24 | Sequence 24, Appl |

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| 101 | 40 | 69.0 | 465 | 2 | US-10-011-749-24 | Sequence 24, Appl |
| 102 | 40 | 69.0 | 1587 | 2 | US-09-000-094-46 | Sequence 46, Appl |
| 103 | 40 | 69.0 | 1587 | 2 | US-10-011-749-46 | Sequence 46, Appl |
| 104 | 38 | 65.5 | 163 | 2 | US-09-270-767-41132 | Sequence 41132, A |
| 105 | 38 | 65.5 | 163 | 2 | US-09-270-767-56348 | Sequence 56348, A |
| 106 | 38 | 65.5 | 203 | 2 | US-09-198-452A-196 | Sequence 196, App |
| 107 | 38 | 65.5 | 203 | 2 | US-09-438-185A-182 | Sequence 182, App |
| 108 | 38 | 65.5 | 267 | 2 | US-09-270-767-39631 | Sequence 39631, A |
| 109 | 38 | 65.5 | 267 | 2 | US-09-270-767-54848 | Sequence 54848, A |
| 110 | 38 | 65.5 | 909 | 2 | US-09-982-616-11 | Sequence 11, Appl |
| 111 | 37.5 | 64.7 | 49 | 2 | US-09-270-767-40589 | Sequence 40589, A |
| 112 | 37.5 | 64.7 | 49 | 2 | US-09-270-767-55805 | Sequence 55805, A |
| 113 | 37 | 63.8 | 9 | 2 | US-08-075-541D-26 | Sequence 26, Appl |
| 114 | 37 | 63.8 | 19 | 2 | US-08-075-541D-38 | Sequence 38, Appl |
| 115 | 37 | 63.8 | 156 | 2 | US-09-134-001C-4448 | Sequence 4448, Ap |
| 116 | 37 | 63.8 | 737 | 2 | US-09-749-601A-9 | Sequence 9, Appli |
| 117 | 36 | 62.1 | 64 | 2 | US-09-270-767-45291 | Sequence 45291, A |
| 118 | 36 | 62.1 | 64 | 2 | US-09-270-767-60785 | Sequence 60785, A |
| 119 | 36 | 62.1 | 150 | 2 | US-09-270-767-57218 | Sequence 57218, A |
| 120 | 36 | 62.1 | 289 | 2 | US-09-270-767-46018 | Sequence 46018, A |
| 121 | 36 | 62.1 | 326 | 2 | US-09-270-767-41964 | Sequence 41964, A |
| 122 | 35.5 | 61.2 | 9 | 2 | US-10-365-908-93 | Sequence 93, Appl |
| 123 | 35.5 | 61.2 | 10 | 2 | US-10-365-908-102 | Sequence 102, App |
| 124 | 35 | 60.3 | 75 | 2 | US-09-621-976-6163 | Sequence 6163, Ap |
| 125 | 35 | 60.3 | 84 | 2 | US-09-386-493-8 | Sequence 8, Appli |
| 126 | 35 | 60.3 | 84 | 2 | US-09-991-181-246 | Sequence 246, App |
| 127 | 35 | 60.3 | 84 | 2 | US-09-990-444-246 | Sequence 246, App |
| 128 | 35 | 60.3 | 84 | 2 | US-09-997-333-246 | Sequence 246, App |
| 129 | 35 | 60.3 | 84 | 2 | US-09-992-598-246 | Sequence 246, App |
| 130 | 35 | 60.3 | 97 | 2 | US-09-270-767-35812 | Sequence 35812, A |
| 131 | 35 | 60.3 | 97 | 2 | US-09-270-767-51029 | Sequence 51029, A |
| 132 | 35 | 60.3 | 331 | 2 | US-09-270-767-44232 | Sequence 44232, A |
| 133 | 35 | 60.3 | 350 | 1 | US-08-966-316-16 | Sequence 16, Appl |
| 134 | 35 | 60.3 | 350 | 1 | US-08-966-316-18 | Sequence 18, Appl |
| 135 | 35 | 60.3 | 350 | 2 | US-09-556-002-2 | Sequence 2, Appli |
| 136 | 35 | 60.3 | 350 | 2 | US-09-721-908-2 | Sequence 2, Appli |
| 137 | 35 | 60.3 | 350 | 2 | US-09-910-695-8 | Sequence 8, Appli |
| 138 | 35 | 60.3 | 350 | 2 | US-09-721-341-2 | Sequence 2, Appli |
| 139 | 35 | 60.3 | 350 | 2 | US-09-721-495B-2 | Sequence 2, Appli |
| 140 | 35 | 60.3 | 350 | 2 | US-09-875-076-22 | Sequence 22, Appl |
| 141 | 34 | 58.6 | 13 | 2 | US-08-075-541D-24 | Sequence 24, Appl |
| 142 | 34 | 58.6 | 20 | 2 | US-08-075-541D-5 | Sequence 5, Appli |
| 143 | 34 | 58.6 | 51 | 2 | US-09-740-510-2 | Sequence 2, Appli |
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| 169 | 33 | 56.9 | 130 | 2 | US-09-107-433-3665 | Sequence 3665, Ap |
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| 190 | 33 | 56.9 | 340 | 4 | PCT-US93-08528-49 | Sequence 49, Appl |
| 191 | 33 | 56.9 | 341 | 1 | US-08-118-270-48 | Sequence 48, Appl |
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| 236 | 32 | 55.2 | 140 | 2 | US-09-621-976-7010 | Sequence 7010, Ap |
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| 243 | 32 | 55.2 | 237 | 2 | US-09-991-181-295 | Sequence 295, App |
| 244 | 32 | 55.2 | 237 | 2 | US-09-973-278-152 | Sequence 152, App |
| 245 | 32 | 55.2 | 237 | 2 | US-09-990-444-295 | Sequence 295, App |
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| 267 | 32 | 55.2 | 1001 | 1 | US-07-943-843-2 | Sequence 2, Appli |
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| 306 | 31 | 53.4 | 209 | 2 | US-10-012-542-150 | Sequence 150, App |
| 307 | 31 | 53.4 | 209 | 2 | US-10-115-123-150 | Sequence 150, App |
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| 368 | 30 | 51.7 | 27 | 2 | US-09-084-303B-240 | Sequence 240, App |
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| 388 | 30 | 51.7 | 124 | 2 | US-09-893-737-316 | Sequence 316, App |
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| 414 | 30 | 51.7 | 270 | 1 | US-07-857-224B-36 | Sequence 36, Appl |
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| 417 | 30 | 51.7 | 288 | 2 | US-09-949-016-9132 | Sequence 9132, Ap |
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| 703 | 29 | 50.0 | 345 | 2 | US-09-468-647A-130 | Sequence 130, App |
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| 784 | 29 | 50.0 | 734 | 2 | US-10-237-551-26 | Sequence 26, Appl |
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| 794 | 29 | 50.0 | 788 | 4 | PCT-US95-06613-36 | Sequence 36, Appl |
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| 866 | 29 | 50.0 | 1481 | 2 | US-09-949-016-8696 | Sequence 8696, Ap |
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| 870 | 29 | 50.0 | 1486 | 2 | US-09-949-016-8678 | Sequence 8678, Ap |
| 871 | 29 | 50.0 | 1486 | 2 | US-09-949-016-8679 | Sequence 8679, Ap |
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| 879 | 29 | 50.0 | 1499 | 2 | US-09-949-016-8687 | Sequence 8687, Ap |
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| 888 | 29 | 50.0 | 1878 | 2 | US-09-839-479-13 | Sequence 13, Appl |
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| 892 | 29 | 50.0 | 2161 | 2 | US-09-707-780-3 | Sequence 3, Appli |
| 893 | 29 | 50.0 | 2161 | 2 | US-09-568-189A-3 | Sequence 3, Appli |
| 894 | 29 | 50.0 | 2183 | 1 | US-08-348-891A-7 | Sequence 7, Appli |
| 895 | 29 | 50.0 | 2183 | 1 | US-08-905-817-7 | Sequence 7, Appli |
| 896 | 29 | 50.0 | 2504 | 2 | US-08-851-567B-12 | Sequence 12, Appl |
| 897 | 29 | 50.0 | 2504 | 2 | US-09-817-514A-8 | Sequence 8, Appli |
| 898 | 29 | 50.0 | 2636 | 2 | US-09-252-991A-25753 | Sequence 25753, A |
| 899 | 29 | 50.0 | 3433 | 2 | US-09-091-501B-10 | Sequence 10, Appl |
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| 903 | 28.5 | 49.1 | 87 | 2 | US-09-270-767-60167 | Sequence 60167, A |
| 904 | 28.5 | 49.1 | 512 | 2 | US-10-087-167-96 | Sequence 96, Appl |
| 905 | 28.5 | 49.1 | 513 | 2 | US-10-087-167-74 | Sequence 74, Appl |
| 906 | 28.5 | 49.1 | 516 | 2 | US-10-087-167-72 | Sequence 72, Appl |
| 907 | 28.5 | 49.1 | 516 | 2 | US-10-087-167-88 | Sequence 88, Appl |
| 908 | 28.5 | 49.1 | 521 | 2 | US-10-087-167-90 | Sequence 90, Appl |
| 909 | 28.5 | 49.1 | 536 | 2 | US-08-653-648A-13 | Sequence 13, Appl |
| 910 | 28.5 | 49.1 | 536 | 2 | US-09-564-418-9 | Sequence 9, Appli |
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| 913 | 28.5 | 49.1 | 675 | 2 | US-09-564-418-12 | Sequence 12, Appl |
| 914 | 28.5 | 49.1 | 694 | 2 | US-09-270-767-36948 | Sequence 36948, A |
| 915 | 28.5 | 49.1 | 694 | 2 | US-09-270-767-52165 | Sequence 52165, A |
| 916 | 28.5 | 49.1 | 746 | 2 | US-09-144-759-18 | Sequence 18, Appl |
| 917 | 28.5 | 49.1 | 746 | 2 | US-09-570-267-18 | Sequence 18, Appl |
| 918 | 28.5 | 49.1 | 746 | 2 | US-09-042-488B-5 | Sequence 5, Appli |
| 919 | 28.5 | 49.1 | 746 | 2 | US-09-042-488B-7 | Sequence 7, Appli |
| 920 | 28.5 | 49.1 | 764 | 2 | US-09-144-759-20 | Sequence 20, Appl |
| 921 | 28.5 | 49.1 | 764 | 2 | US-09-570-267-20 | Sequence 20, Appl |
| 922 | 28.5 | 49.1 | 878 | 2 | US-08-653-648A-15 | Sequence 15, Appl |
| 923 | 28.5 | 49.1 | 878 | 2 | US-09-564-418-8 | Sequence 8, Appli |
| 924 | 28.5 | 49.1 | 1041 | 2 | US-09-042-488B-9 | Sequence 9, Appli |
| 925 | 28 | 48.3 | 9 | 2 | US-10-365-908-86 | Sequence 86, Appl |
| 926 | 28 | 48.3 | 14 | 2 | US-08-331-625A-37 | Sequence 37, Appl |
| 927 | 28 | 48.3 | 14 | 2 | US-09-494-151-37 | Sequence 37, Appl |
| 928 | 28 | 48.3 | 14 | 2 | US-09-972-484-37 | Sequence 37, Appl |
| 929 | 28 | 48.3 | 20 | 1 | US-08-484-635-196 | Sequence 196, App |
| 930 | 28 | 48.3 | 20 | 1 | US-08-484-635-251 | Sequence 251, App |
| 931 | 28 | 48.3 | 20 | 1 | US-08-484-631-196 | Sequence 196, App |
| 932 | 28 | 48.3 | 20 | 1 | US-08-484-631-251 | Sequence 251, App |
| 933 | 28 | 48.3 | 20 | 1 | US-08-827-570-196 | Sequence 196, App |
| 934 | 28 | 48.3 | 20 | 1 | US-08-827-570-251 | Sequence 251, App |
| 935 | 28 | 48.3 | 25 | 2 | US-09-201-227A-32 | Sequence 32, Appl |
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| 937 | 28 | 48.3 | 30 | 1 | US-08-084-848A-2 | Sequence 2, Appli |
| 938 | 28 | 48.3 | 30 | 1 | US-08-137-800-35 | Sequence 35, Appl |
| 939 | 28 | 48.3 | 30 | 1 | US-08-477-383-35 | Sequence 35, Appl |
| 940 | 28 | 48.3 | 30 | 1 | US-08-487-174-35 | Sequence 35, Appl |
| 941 | 28 | 48.3 | 30 | 1 | US-08-480-750-35 | Sequence 35, Appl |
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| 944 | 28 | 48.3 | 30 | 2 | US-09-973-278-394 | Sequence 394, App |
| 945 | 28 | 48.3 | 38 | 1 | US-08-137-800-25 | Sequence 25, Appl |
| 946 | 28 | 48.3 | 38 | 1 | US-08-477-383-25 | Sequence 25, Appl |
| 947 | 28 | 48.3 | 38 | 1 | US-08-487-174-25 | Sequence 25, Appl |
| 948 | 28 | 48.3 | 38 | 1 | US-08-480-750-25 | Sequence 25, Appl |
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| 950 | 28 | 48.3 | 42 | 1 | US-08-487-174-56 | Sequence 56, Appl |
| 951 | 28 | 48.3 | 42 | 1 | US-08-480-750-56 | Sequence 56, Appl |
| 952 | 28 | 48.3 | 47 | 1 | US-07-743-518-20 | Sequence 20, Appl |
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| 958 | 28 | 48.3 | 56 | 2 | US-09-834-309-3 | Sequence 3, Appli |
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| 960 | 28 | 48.3 | 58 | 2 | US-09-492-709A-339 | Sequence 339, App |
| 961 | 28 | 48.3 | 61 | 2 | US-09-134-001C-3230 | Sequence 3230, Ap |
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| 964 | 28 | 48.3 | 61 | 2 | US-09-583-110-4423 | Sequence 4423, Ap |
| 965 | 28 | 48.3 | 62 | 2 | US-09-328-352-6815 | Sequence 6815, Ap |
| 966 | 28 | 48.3 | 62 | 2 | US-09-543-681A-4335 | Sequence 4335, Ap |
| 967 | 28 | 48.3 | 63 | 2 | US-09-621-976-5965 | Sequence 5965, Ap |
| 968 | 28 | 48.3 | 63 | 2 | US-09-248-796A-23879 | Sequence 23879, A |
| 969 | 28 | 48.3 | 64 | 2 | US-09-107-532A-5278 | Sequence 5278, Ap |
| 970 | 28 | 48.3 | 65 | 2 | US-08-900-574-3 | Sequence 3, Appli |
| 971 | 28 | 48.3 | 65 | 2 | US-08-905-223-341 | Sequence 341, App |
| 972 | 28 | 48.3 | 66 | 2 | US-08-900-574-5 | Sequence 5, Appli |
| 973 | 28 | 48.3 | 67 | 2 | US-08-900-574-7 | Sequence 7, Appli |
| 974 | 28 | 48.3 | 69 | 1 | US-08-137-800-40 | Sequence 40, Appl |
| 975 | 28 | 48.3 | 69 | 1 | US-08-477-383-40 | Sequence 40, Appl |
| 976 | 28 | 48.3 | 69 | 1 | US-08-487-174-40 | Sequence 40, Appl |

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| 977 | 28 | 48.3 | 69 | 1 | US-08-480-750-40 | Sequence 40, Appl |
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| 979 | 28 | 48.3 | 71 | 2 | US-09-270-767-55053 | Sequence 55053, A |
| 980 | 28 | 48.3 | 74 | 2 | US-09-632-287A-9 | Sequence 9, Appli |
| 981 | 28 | 48.3 | 74 | 2 | US-10-286-696-9 | Sequence 9, Appli |
| 982 | 28 | 48.3 | 75 | 2 | US-09-134-001C-4111 | Sequence 4111, Ap |
| 983 | 28 | 48.3 | 75 | 2 | US-09-270-767-58404 | Sequence 58404, A |
| 984 | 28 | 48.3 | 76 | 2 | US-09-248-796A-23217 | Sequence 23217, A |
| 985 | 28 | 48.3 | 78 | 2 | US-10-000-489-6 | Sequence 6, Appli |
| 986 | 28 | 48.3 | 79 | 1 | US-08-154-916-8 | Sequence 8, Appli |
| 987 | 28 | 48.3 | 79 | 1 | US-08-154-916-9 | Sequence 9, Appli |
| 988 | 28 | 48.3 | 79 | 2 | US-09-543-681A-6837 | Sequence 6837, Ap |
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| 990 | 28 | 48.3 | 80 | 1 | US-08-477-383-41 | Sequence 41, Appl |
| 991 | 28 | 48.3 | 80 | 1 | US-08-487-174-41 | Sequence 41, Appl |
| 992 | 28 | 48.3 | 80 | 1 | US-08-480-750-41 | Sequence 41, Appl |
| 993 | 28 | 48.3 | 80 | 2 | US-09-621-976-4704 | Sequence 4704, Ap |
| 994 | 28 | 48.3 | 80 | 2 | US-09-107-433-2720 | Sequence 2720, Ap |
| 995 | 28 | 48.3 | 81 | 2 | US-09-898-659-34 | Sequence 34, Appl |
| 996 | 28 | 48.3 | 82 | 2 | US-09-091-590A-3 | Sequence 3, Appli |
| 997 | 28 | 48.3 | 82 | 2 | US-09-270-767-60836 | Sequence 60836, A |
| 998 | 28 | 48.3 | 83 | 2 | US-09-471-276-990 | Sequence 990, App |
| 999 | 28 | 48.3 | 84 | 2 | US-09-386-493-14 | Sequence 14, Appl |
| 1000 | 28 | 48.3 | 84 | 2 | US-09-248-796A-26735 | Sequence 26735, A |

ALIGNMENTS

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RESULT 1
US-10-365-908-9
; Sequence 9, Application US/10365908
; Patent No. 6797491
; GENERAL INFORMATION:
;  APPLICANT: Neefe, John R.
;  APPLICANT:  Boux, Leslie J.
;  APPLICANT:  Winnett, Mark T.
;  APPLICANT:  Goldstone, Stephen E.
;  APPLICANT:  Siegel, Marvin
;  TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
;  FILE REFERENCE: 12071-003001
;  CURRENT APPLICATION NUMBER: US/10/365,908
;  CURRENT FILING DATE:  2003-02-13
;  PRIOR APPLICATION NUMBER: US/09/891,823
;  PRIOR FILING DATE: 2001-10-19
;  PRIOR APPLICATION NUMBER: US 60/214,202
;  PRIOR FILING DATE: 2000-06-26
;  NUMBER OF SEQ ID NOS: 140
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papilloma virus
US-10-365-908-9

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  Best Local Similarity   100.0%;  Pred. No. 4.6e+05;
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Db          1 HYNIVTFCC 9


RESULT 2
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; Sequence 27, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  27:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  12 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-27

  Query Match             100.0%;  Score 58;  DB 2;  Length 12;
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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db          1 HYNIVTFCC 9


RESULT 3
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; Sequence 28, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
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;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  28:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  13 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-28

  Query Match             100.0%;  Score 58;  DB 2;  Length 13;
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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
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Db          2 HYNIVTFCC 10


RESULT 4
US-08-075-541D-29
; Sequence 29, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  29:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  14 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-29

  Query Match             100.0%;  Score 58;  DB 2;  Length 14;
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Db          3 HYNIVTFCC 11


RESULT 5
US-08-075-541D-18
; Sequence 18, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  18:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  15 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-18

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RESULT 6
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;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  25:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  17 amino acids
;      TYPE:  amino acid
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;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-25

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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db          8 HYNIVTFCC 16


RESULT 7
US-09-980-523A-16
; Sequence 16, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
;   LENGTH: 17
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-16

  Query Match             100.0%;  Score 58;  DB 2;  Length 17;
  Best Local Similarity   100.0%;  Pred. No. 0.0049;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db          8 HYNIVTFCC 16


RESULT 8
US-08-075-541D-30
; Sequence 30, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  30:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  18 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
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US-08-075-541D-30

  Query Match             100.0%;  Score 58;  DB 2;  Length 18;
  Best Local Similarity   100.0%;  Pred. No. 0.0051;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db          7 HYNIVTFCC 15


RESULT 9
US-08-075-541D-3
; Sequence 3, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  19 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-3

  Query Match             100.0%;  Score 58;  DB 2;  Length 19;
  Best Local Similarity   100.0%;  Pred. No. 0.0054;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db          8 HYNIVTFCC 16


RESULT 10
US-08-934-915-48
; Sequence 48, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  48:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-48

  Query Match             100.0%;  Score 58;  DB 1;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.0057;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db          5 HYNIVTFCC 13


RESULT 11
US-08-934-915-155
; Sequence 155, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
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; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 3.0
; SOFTWARE: Microsoft Word 6.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/934,915
; FILING DATE: 22-SEP-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/949,836
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: LOUISE A. Foutch
; REGISTRATION NUMBER: 37,133
; REFERENCE/DOCKET NUMBER: 1946.6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 813-538-3800
; TELEFAX: 813-538-3820
; TELEX:
; INFORMATION FOR SEQ ID NO: 155:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-934-915-155

Query Match 100.0%; Score 58; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.0057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
||||||||| 
Db 5 HYNIVTFCC 13

RESULT 12
US-08-075-541D-10
; Sequence 10, Application US/08075541D
; Patent No. 6183745
; GENERAL INFORMATION:
; APPLICANT: TINDLE, ROBERT
; APPLICANT: FERNANDO, GERMAIN
; APPLICANT: FRAZER, IAN
; TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
; TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
; STREET: 1601 MARKET STREET, 36TH FLOOR
; CITY: PHILADELPHIA
; STATE: PENNSYLVANIA
; COUNTRY: USA
; ZIP: 19103-2398
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/075,541D
; FILING DATE: 10-JUN-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: AU pk 3876
; FILING DATE: 12-DEC-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: pct/au91/00575
; FILING DATE: 12-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: NADEL, ALAN S
; REGISTRATION NUMBER: 27,363
; REFERENCE/DOCKET NUMBER: 8795-4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-567-2020
; TELEFAX: 215-567-2991
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-075-541D-10

Query Match 100.0%; Score 58; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.0057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
||||||||| 
Db 9 HYNIVTFCC 17

RESULT 13
US-09-980-177A-73
; Sequence 73, Application US/09980177A
; Patent No. 6838084
; GENERAL INFORMATION:
; APPLICANT: Jochmus, Ingrid
; APPLICANT: Nieland, John
; TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
; TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
; TITLE OF INVENTION: Therapy
; FILE REFERENCE: 50125/036001
; CURRENT APPLICATION NUMBER: US/09/980,177A
; CURRENT FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: PCT/EP00/05006
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: DE 19925199.1
; PRIOR FILING DATE: 1999-06-01
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 73
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-980-177A-73

Query Match 100.0%; Score 58; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.0057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
||||||||| 
Db 7 HYNIVTFCC 15

RESULT 14
US-08-075-541D-47
; Sequence 47, Application US/08075541D
; Patent No. 6183745
; GENERAL INFORMATION:
; APPLICANT: TINDLE, ROBERT
; APPLICANT: FERNANDO, GERMAIN
; APPLICANT: FRAZER, IAN
; TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
; TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
; STREET: 1601 MARKET STREET, 36TH FLOOR
; CITY: PHILADELPHIA
; STATE: PENNSYLVANIA
; COUNTRY: USA

```
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  47:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  25 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-47

  Query Match             100.0%;  Score 58;  DB 2;  Length 25;
  Best Local Similarity   100.0%;  Pred. No. 0.007;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db          2 HYNIVTFCC 10


RESULT 15
US-08-075-541D-20
; Sequence 20, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  26 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-20

  Query Match             100.0%;  Score 58;  DB 2;  Length 26;
  Best Local Similarity   100.0%;  Pred. No. 0.0072;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         15 HYNIVTFCC 23


RESULT 16
US-08-934-915-52
; Sequence 52, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  52:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  30 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-52
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  Query Match             100.0%;  Score 58;  DB 1;  Length 30;
  Best Local Similarity   100.0%;  Pred. No. 0.0082;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db          8 HYNIVTFCC 16


RESULT 17
US-09-486-394-3
; Sequence 3, Application US/09486394
; Patent No. 6478749
; GENERAL INFORMATION:
;  APPLICANT: Hopfl, Reinhard
;  TITLE OF INVENTION: Diagnostic Kit for Skin Tests, and Method
;  FILE REFERENCE: 032929-001
;  CURRENT APPLICATION NUMBER: US/09/486,394
;  CURRENT FILING DATE:  2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/04773
;  PRIOR FILING DATE: 1998-07-30
;  PRIOR APPLICATION NUMBER: DE 197 37 409.3
;  PRIOR FILING DATE: 1997-08-27
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 30
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(30)
;   OTHER INFORMATION: E7 peptide.
US-09-486-394-3

  Query Match             100.0%;  Score 58;  DB 2;  Length 30;
  Best Local Similarity   100.0%;  Pred. No. 0.0082;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         11 HYNIVTFCC 19


RESULT 18
US-08-075-541D-7
; Sequence 7, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  32 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-7

  Query Match             100.0%;  Score 58;  DB 2;  Length 32;
  Best Local Similarity   100.0%;  Pred. No. 0.0087;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         21 HYNIVTFCC 29


RESULT 19
US-08-075-541D-8
; Sequence 8, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  32 amino acids
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;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-8

  Query Match             100.0%;  Score 58;  DB 2;  Length 32;
  Best Local Similarity   100.0%;  Pred. No. 0.0087;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db          3 HYNIVTFCC 11


RESULT 20
US-09-501-097A-6
; Sequence 6, Application US/09501097A
; Patent No. 6734173
; GENERAL INFORMATION:
;  APPLICANT: Tzyy-Choou Wu
;  APPLICANT:  Chien-Fu Hung
;  TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
;  FILE REFERENCE: 2240-169349
;  CURRENT APPLICATION NUMBER: US/09/501,097A
;  CURRENT FILING DATE:  2000-02-09
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
;   LENGTH: 38
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-09-501-097A-6

  Query Match             100.0%;  Score 58;  DB 2;  Length 38;
  Best Local Similarity   100.0%;  Pred. No. 0.01;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         22 HYNIVTFCC 30


RESULT 21
US-08-406-248-6
; Sequence 6, Application US/08406248
; Patent No. 5736318
;  GENERAL INFORMATION:
;    APPLICANT:  Munger, Karl
;    APPLICANT:  Jones, D. Leanne
;    TITLE OF INVENTION:  METHOD AND KIT FOR EVALUATING
;    TITLE OF INVENTION:  TRANSFORMED CELLS
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Ann-Louise Kerner, Ph.D., Lappin & Kusmer
;      STREET:  200 State Street
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/406,248
;      FILING DATE:
;      CLASSIFICATION:  436
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  McDaniels, Patricia A.
;      REGISTRATION NUMBER:  33,194
;      REFERENCE/DOCKET NUMBER:  HAZ-011
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-330-1300
;      TELEFAX:  617-330-1311
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  98 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-406-248-6

  Query Match             100.0%;  Score 58;  DB 1;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.024;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 22
US-08-075-541D-42
; Sequence 42, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  42:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  98 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-42

  Query Match             100.0%;  Score 58;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.024;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 23
US-09-382-616A-1
; Sequence 1, Application US/09382616A
; Patent No. 6200746
; GENERAL INFORMATION:
;  APPLICANT:  Fisher, Christopher
;  APPLICANT:  He, Wanxia
;  TITLE OF INVENTION:  Methods to Identify Anti-Viral Agents
;  FILE REFERENCE:  28341/6216
;  CURRENT APPLICATION NUMBER: US/09/382,616A
;  CURRENT FILING DATE:  1999-08-25
;  PRIOR APPLICATION NUMBER:  09/382,616
;  PRIOR FILING DATE:  1999-08-25
;  NUMBER OF SEQ ID NOS:  43
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Papillomavirus sylvilagi
US-09-382-616A-1

  Query Match             100.0%;  Score 58;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.024;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 24
US-08-944-368A-4
; Sequence 4, Application US/08944368A
; Patent No. 6228368
;  GENERAL INFORMATION:
;    APPLICANT:  Gissman, et al.
;    TITLE OF INVENTION:  Papilloma Virus Capsomere Vaccine
;    TITLE OF INVENTION:  Formulations and Methods of Use
;    NUMBER OF SEQUENCES:  28
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray &
;      ADDRESSEE:  Borun
;      STREET:  233 South Wacker Drive, 6300 Sears Tower
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  United States of America
;      ZIP:  60606-6402
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/944,368A
;      FILING DATE:
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Williams Jr., Joseph A.
;      REGISTRATION NUMBER:  38,659
;      REFERENCE/DOCKET NUMBER:  27013/34028
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  312-474-6300
;      TELEFAX:  312-474-0448
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  98 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-944-368A-4

  Query Match             100.0%;  Score 58;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.024;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 25
US-09-820-764-4
; Sequence 4, Application US/09820764
; Patent No. 6352696
;  GENERAL INFORMATION:
;       APPLICANT: BURGER, Alexander
;                  HALLEK, Michael
;       TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                           FORMULATIONS AND METHODS OF USE
;       NUMBER OF SEQUENCES: 28
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: FOLEY & LARDNER
;            STREET: 3000 K Street, N.W.
;            CITY: Washington
;            STATE: D.C.
;            COUNTRY: U.S.A.
;            ZIP: 20007-5109
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.30
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/820,764
;            FILING DATE: 30-Mar-2001
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: US 09/026,896
;            FILING DATE: 20-FEB-1998
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Sandercock, Colin G.
;            REGISTRATION NUMBER: 31,298
;            REFERENCE/DOCKET NUMBER: 37067/102
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (202) 672-5300
;            TELEFAX: (202) 672-5399
;  INFORMATION FOR SEQ ID NO: 4:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 98 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-764-4

  Query Match             100.0%;  Score 58;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.024;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 26
US-09-613-303-8
; Sequence 8, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
;  APPLICANT:  Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
```

```
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION:  INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE:  12071/002001
;  CURRENT APPLICATION NUMBER: US/09/613,303
;  CURRENT FILING DATE:  2000-07-10
;  PRIOR APPLICATION NUMBER:  US 60/143,757
;  PRIOR FILING DATE:  1999-07-08
;  NUMBER OF SEQ ID NOS:  55
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-09-613-303-8

  Query Match             100.0%;  Score 58;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.024;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 27
US-09-566-420-19
; Sequence 19, Application US/09566420
; Patent No. 6500641
; GENERAL INFORMATION:
;  APPLICANT:  CHEN, SI-YI AND ZHAOYANG, YOU
;  TITLE OF INVENTION:  METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
;  TITLE OF INVENTION:  IMMUNE RESPONSE
;  FILE REFERENCE:  TBA
;  CURRENT APPLICATION NUMBER: US/09/566,420
;  CURRENT FILING DATE:  2000-05-05
;  PRIOR APPLICATION NUMBER:  60/132,752
;  PRIOR FILING DATE:  1999-05-06
;  PRIOR APPLICATION NUMBER:  60/132,750
;  PRIOR FILING DATE:  1999-05-06
;  NUMBER OF SEQ ID NOS:  19
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 19
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type E7
US-09-566-420-19

  Query Match             100.0%;  Score 58;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.024;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 28
US-09-986-118A-4
; Sequence 4, Application US/09986118A
; Patent No. 6562351
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                            FORMULATIONS AND METHODS OF USE
;        NUMBER OF SEQUENCES: 28
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: FOLEY & LARDNER
;             STREET: 3000 K Street, N.W.
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: U.S.A.
;             ZIP: 20007-5109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/986,118A
;             FILING DATE: 07-No. 6562351-2001
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US 09/026,896
;             FILING DATE: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Sandercock, Colin G.
;             REGISTRATION NUMBER: 31,298
;             REFERENCE/DOCKET NUMBER: 37067/102
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 672-5300
;             TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 98 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

  Query Match             100.0%;  Score 58;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.024;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 29
US-09-728-466-1
; Sequence 1, Application US/09728466
; Patent No. 6641994
; GENERAL INFORMATION:
;  APPLICANT:  Fisher, Christopher
;  APPLICANT:  He, Wanxia
;  TITLE OF INVENTION:  Methods to Identify Anti-Viral Agents
;  FILE REFERENCE:  28341/6216
;  CURRENT APPLICATION NUMBER: US/09/728,466
;  CURRENT FILING DATE:  2000-12-01
;  PRIOR APPLICATION NUMBER:  09/382,616
;  PRIOR FILING DATE:  1999-08-25
;  NUMBER OF SEQ ID NOS:  43
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Papillomavirus sylvilagi
US-09-728-466-1

  Query Match             100.0%;  Score 58;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.024;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 30
US-09-824-017-4
; Sequence 4, Application US/09824017
; Patent No. 6649167
```

```
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                            FORMULATIONS AND METHODS OF USE
;        NUMBER OF SEQUENCES: 28
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: FOLEY & LARDNER
;             STREET: 3000 K Street, N.W.
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: U.S.A.
;             ZIP: 20007-5109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/824,017
;             FILING DATE: 03-Apr-2001
;             CLASSIFICATION: 424
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 09/026,896
;             FILING DATE: 1998-02-20
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Sandercock, Colin G.
;             REGISTRATION NUMBER: 31,298
;             REFERENCE/DOCKET NUMBER: 37067/102
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 672-5300
;             TELEFAX: (202) 672-5399
;    INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 98 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-824-017-4

  Query Match             100.0%;  Score 58;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.024;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 31
US-10-267-311-8
; Sequence 8, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-8

  Query Match             100.0%;  Score 58;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.024;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 32
US-10-201-764-19
; Sequence 19, Application US/10201764
; Patent No. 6716623
; GENERAL INFORMATION:
;  APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
;  TITLE OF INVENTION:  IMMUNE RESPONSE
;  FILE REFERENCE: TBA
;  CURRENT APPLICATION NUMBER: US/10/201,764
;  CURRENT FILING DATE:  2002-07-22
;  PRIOR APPLICATION NUMBER: US/09/566,420
;  PRIOR FILING DATE: 2000-05-05
;  PRIOR APPLICATION NUMBER: 60/132,752
;  PRIOR FILING DATE: 1999-05-06
;  PRIOR APPLICATION NUMBER: 60/132,750
;  PRIOR FILING DATE: 1999-05-06
;  NUMBER OF SEQ ID NOS: 19
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type E7
US-10-201-764-19

  Query Match             100.0%;  Score 58;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.024;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 33
US-09-637-746-3
; Sequence 3, Application US/09637746
; Patent No. 6727079
; GENERAL INFORMATION:
;  APPLICANT: Thorgeirsson, Snorri S.
;  APPLICANT:  Woitach, Joseph T.
;  APPLICANT:  Zhang, Minghuang
;  TITLE OF INVENTION: cDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS PROTEI
;  TITLE OF INVENTION:  PRODUCT
;  FILE REFERENCE: 11613.29USW1
;  CURRENT APPLICATION NUMBER: US/09/637,746
;  CURRENT FILING DATE:  2000-08-11
;  PRIOR APPLICATION NUMBER: PCT/US99/04142
;  PRIOR FILING DATE: 1999-02-25
;  PRIOR APPLICATION NUMBER: US 60/079,567
;  PRIOR FILING DATE: 1998-03-27
;  PRIOR APPLICATION NUMBER: US 60/075,922
;  PRIOR FILING DATE: 1998-02-25
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-09-637-746-3
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  Query Match           100.0%;  Score 58;  DB 2;  Length 98;
  Best Local Similarity  100.0%;  Pred. No. 0.024;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 34
US-09-501-097A-7
; Sequence 7, Application US/09501097A
; Patent No. 6734173
; GENERAL INFORMATION:
;  APPLICANT: Tzyy-Choou Wu
;  APPLICANT:  Chien-Fu Hung
;  TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
;  FILE REFERENCE: 2240-169349
;  CURRENT APPLICATION NUMBER: US/09/501,097A
;  CURRENT FILING DATE:  2000-02-09
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-09-501-097A-7

  Query Match           100.0%;  Score 58;  DB 2;  Length 98;
  Best Local Similarity  100.0%;  Pred. No. 0.024;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 35
US-09-980-523A-12
; Sequence 12, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-12

  Query Match           100.0%;  Score 58;  DB 2;  Length 98;
  Best Local Similarity  100.0%;  Pred. No. 0.024;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 36
US-09-613-303-12
; Sequence 12, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
;  APPLICANT:  Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION:  INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE:  12071/002001
;  CURRENT APPLICATION NUMBER: US/09/613,303
;  CURRENT FILING DATE:  2000-07-10
;  PRIOR APPLICATION NUMBER:  US 60/143,757
;  PRIOR FILING DATE:  1999-07-08
;  NUMBER OF SEQ ID NOS:  55
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 12
;   LENGTH: 121
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-09-613-303-12

  Query Match           100.0%;  Score 58;  DB 2;  Length 121;
  Best Local Similarity  100.0%;  Pred. No. 0.03;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         74 HYNIVTFCC 82


RESULT 37
US-10-267-311-12
; Sequence 12, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
;   LENGTH: 121
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-12

  Query Match           100.0%;  Score 58;  DB 2;  Length 121;
  Best Local Similarity  100.0%;  Pred. No. 0.03;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         74 HYNIVTFCC 82


RESULT 38
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
```

; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

Query Match 100.0%; Score 58; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.041;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
||||||||||
Db 149 HYNIVTFCC 157

RESULT 39
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

Query Match 100.0%; Score 58; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.041;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
||||||||||
Db 19 HYNIVTFCC 27

RESULT 40
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-12

Query Match 100.0%; Score 58; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.041;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
||||||||||
Db 149 HYNIVTFCC 157

RESULT 41
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-14

Query Match 100.0%; Score 58; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.041;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
||||||||||
Db 19 HYNIVTFCC 27

RESULT 42
US-09-462-993-2
; Sequence 2, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule

```
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION:  ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE:  017753-122
;  CURRENT APPLICATION NUMBER: US/09/462,993
;  CURRENT FILING DATE:  2000-04-17
;  PRIOR APPLICATION NUMBER:  PCT/FR98/01576
;  PRIOR FILING DATE:  1998-07-17
;  PRIOR APPLICATION NUMBER:  FR 97/09152
;  PRIOR FILING DATE:  1997-07-18
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  PatentIn Ver. 2.2
; SEQ ID NO 2
;   LENGTH: 185
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Derivated from human papillomavirus, strain
;   OTHER INFORMATION: HPV-16, E7 fusion signals of the rabies
;   OTHER INFORMATION: glycoprotein, clone E7*TMR.
US-09-462-993-2

  Query Match             100.0%;  Score 58;  DB 2;  Length 185;
  Best Local Similarity   100.0%;  Pred. No. 0.044;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         70 HYNIVTFCC 78


RESULT 43
US-09-613-303-35
; Sequence 35, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
;  APPLICANT:  Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION:  INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE:  12071/002001
;  CURRENT APPLICATION NUMBER: US/09/613,303
;  CURRENT FILING DATE:  2000-07-10
;  PRIOR APPLICATION NUMBER:  US 60/143,757
;  PRIOR FILING DATE:  1999-07-08
;  NUMBER OF SEQ ID NOS:  55
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 35
;   LENGTH: 198
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-09-613-303-35

  Query Match             100.0%;  Score 58;  DB 2;  Length 198;
  Best Local Similarity   100.0%;  Pred. No. 0.047;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db        151 HYNIVTFCC 159


RESULT 44
US-10-267-311-35
; Sequence 35, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 35
;   LENGTH: 198
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-35

  Query Match             100.0%;  Score 58;  DB 2;  Length 198;
  Best Local Similarity   100.0%;  Pred. No. 0.047;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db        151 HYNIVTFCC 159


RESULT 45
US-09-485-885-1
; Sequence 1, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 1
;   LENGTH: 220
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-1

  Query Match             100.0%;  Score 58;  DB 2;  Length 220;
  Best Local Similarity   100.0%;  Pred. No. 0.052;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db        164 HYNIVTFCC 172


RESULT 46
US-09-485-885-8
; Sequence 8, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
```

```
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 8
;   LENGTH: 220
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-8

  Query Match             100.0%;  Score 58;  DB 2;  Length 220;
  Best Local Similarity   100.0%;  Pred. No. 0.052;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db        164 HYNIVTFCC 172


RESULT 47
US-09-485-885-12
; Sequence 12, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 12
;   LENGTH: 239
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-12

  Query Match             100.0%;  Score 58;  DB 2;  Length 239;
  Best Local Similarity   100.0%;  Pred. No. 0.056;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db        183 HYNIVTFCC 191


RESULT 48
US-08-459-818-20
; Sequence 20, Application US/08459818
; Patent No. 5851795
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  27
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  FastSeq 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/459,818
;      FILING DATE:  02-JUN-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436.35US02
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  253 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-459-818-20

  Query Match             100.0%;  Score 58;  DB 1;  Length 253;
  Best Local Similarity   100.0%;  Pred. No. 0.059;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db        206 HYNIVTFCC 214


RESULT 49
US-08-889-666-20
; Sequence 20, Application US/08889666
; Patent No. 5885579
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Kiener, Peter A.
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/889,666
;      FILING DATE:  08-JUL-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/375390
;      FILING DATE:  18-JAN-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
```

; REFERENCE/DOCKET NUMBER: 30436-35US01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 310-445-1140
; TELEFAX: 310-445-9031
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 253 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-889-666-20

Query Match 100.0%; Score 58; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.059;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
||||||||| 
Db 206 HYNIVTFCC 214

RESULT 50
US-08-465-078-20
; Sequence 20, Application US/08465078
; Patent No. 5885796
; GENERAL INFORMATION:
; APPLICANT: Linsley, Peter S.
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Damle, Nitin K.
; APPLICANT: Brady, William
; APPLICANT: Kiener, Peter A.
; TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 11150 Santa Monica Blvd., Suite 400
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/465,078
; FILING DATE: 05-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/375390
; FILING DATE: 18-JAN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Adriano, Sarah B.
; REGISTRATION NUMBER: 34,470
; REFERENCE/DOCKET NUMBER: 30436-35US01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 310-445-1140
; TELEFAX: 310-445-9031
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 253 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-465-078-20

Query Match 100.0%; Score 58; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.059;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
||||||||| 
Db 206 HYNIVTFCC 214

Search completed: May 5, 2006, 02:25:41
Job time : 25.8 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:44:45 ; Search time 55.9 Seconds
(without alignments)
67.271 Million cell updates/sec

Title: US-08-170-344-59
Perfect score: 58
Sequence: 1 HYNIVTFCC 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_Main:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
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| 3 | 58 | 100.0 | 9 | 5 | US-10-871-138-9 | Sequence 9, Appli |
| 4 | 58 | 100.0 | 15 | 4 | US-10-648-547-61 | Sequence 61, Appl |
| 5 | 58 | 100.0 | 15 | 4 | US-10-648-547-62 | Sequence 62, Appl |
| 6 | 58 | 100.0 | 15 | 4 | US-10-648-547-63 | Sequence 63, Appl |
| 7 | 58 | 100.0 | 15 | 4 | US-10-648-547-64 | Sequence 64, Appl |
| 8 | 58 | 100.0 | 15 | 4 | US-10-648-547-74 | Sequence 74, Appl |
| 9 | 58 | 100.0 | 15 | 4 | US-10-306-541-61 | Sequence 61, Appl |
| 10 | 58 | 100.0 | 15 | 4 | US-10-306-541-62 | Sequence 62, Appl |
| 11 | 58 | 100.0 | 15 | 4 | US-10-306-541-63 | Sequence 63, Appl |
| 12 | 58 | 100.0 | 15 | 4 | US-10-306-541-64 | Sequence 64, Appl |
| 13 | 58 | 100.0 | 15 | 4 | US-10-306-541-74 | Sequence 74, Appl |
| 14 | 58 | 100.0 | 17 | 5 | US-10-858-384-16 | Sequence 16, Appl |
| 15 | 58 | 100.0 | 19 | 4 | US-10-654-200-56 | Sequence 56, Appl |
| 16 | 58 | 100.0 | 19 | 5 | US-10-484-063-14 | Sequence 14, Appl |
| 17 | 58 | 100.0 | 20 | 4 | US-10-432-465-48 | Sequence 48, Appl |
| 18 | 58 | 100.0 | 20 | 4 | US-10-654-200-57 | Sequence 57, Appl |
| 19 | 58 | 100.0 | 20 | 5 | US-10-890-526-73 | Sequence 73, Appl |
| 20 | 58 | 100.0 | 21 | 4 | US-10-648-547-107 | Sequence 107, App |
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| 27 | 58 | 100.0 | 98 | 4 | US-10-177-390-8 | Sequence 8, Appli |
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| 29 | 58 | 100.0 | 98 | 4 | US-10-392-113-29 | Sequence 29, Appl |
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| 37 | 58 | 100.0 | 98 | 5 | US-10-484-063-26 | Sequence 26, Appl |
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| 39 | 58 | 100.0 | 98 | 5 | US-10-679-956-8 | Sequence 8, Appli |
| 40 | 58 | 100.0 | 98 | 5 | US-10-367-057-17 | Sequence 17, Appl |
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| 59 | 58 | 100.0 | 324 | 4 | US-10-267-311-25 | Sequence 25, Appl |
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| 74 | 58 | 100.0 | 647 | 5 | US-10-679-956-53 | Sequence 53, Appl |
| 75 | 58 | 100.0 | 648 | 4 | US-10-267-311-29 | Sequence 29, Appl |
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| 77 | 58 | 100.0 | 711 | 4 | US-10-267-311-41 | Sequence 41, Appl |
| 78 | 58 | 100.0 | 711 | 5 | US-10-679-956-41 | Sequence 41, Appl |
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| 87 | 50 | 86.2 | 10 | 4 | US-10-648-547-108 | Sequence 108, App |
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| 105 | 43 | 74.1 | 377 | 4 | US-10-263-872-6 | Sequence 6, Appli |
| 106 | 43 | 74.1 | 377 | 4 | US-10-263-872-39 | Sequence 39, Appl |
| 107 | 43 | 74.1 | 379 | 4 | US-10-263-872-4 | Sequence 4, Appli |
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| 132 | 40 | 69.0 | 9 | 4 | US-10-367-674-93 | Sequence 93, Appl |
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| 153 | 40 | 69.0 | 14 | 5 | US-10-751-845-68 | Sequence 68, Appl |
| 154 | 40 | 69.0 | 15 | 4 | US-10-654-200-55 | Sequence 55, Appl |
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| 157 | 40 | 69.0 | 66 | 3 | US-09-751-708A-149 | Sequence 149, App |
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| 161 | 40 | 69.0 | 117 | 5 | US-10-751-845-126 | Sequence 126, App |
| 162 | 40 | 69.0 | 236 | 5 | US-10-751-845-157 | Sequence 157, App |
| 163 | 40 | 69.0 | 237 | 5 | US-10-751-845-158 | Sequence 158, App |
| 164 | 40 | 69.0 | 261 | 5 | US-10-751-845-160 | Sequence 160, App |
| 165 | 40 | 69.0 | 483 | 5 | US-10-475-203A-20 | Sequence 20, Appl |
| 166 | 40 | 69.0 | 517 | 5 | US-10-475-203A-14 | Sequence 14, Appl |
| 167 | 40 | 69.0 | 558 | 5 | US-10-475-203A-18 | Sequence 18, Appl |
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| 169 | 39 | 67.2 | 153 | 4 | US-10-425-115-368737 | Sequence 368737, |
| 170 | 38 | 65.5 | 86 | 4 | US-10-425-115-210559 | Sequence 210559, |
| 171 | 38 | 65.5 | 151 | 4 | US-10-767-701-53516 | Sequence 53516, A |
| 172 | 38 | 65.5 | 184 | 4 | US-10-312-273-187 | Sequence 187, App |
| 173 | 38 | 65.5 | 203 | 4 | US-10-289-762-196 | Sequence 196, App |
| 174 | 38 | 65.5 | 241 | 4 | US-10-425-115-259751 | Sequence 259751, |
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| 176 | 38 | 65.5 | 646 | 4 | US-10-425-115-311188 | Sequence 311188, |
| 177 | 38 | 65.5 | 699 | 4 | US-10-437-963-190319 | Sequence 190319, |
| 178 | 38 | 65.5 | 909 | 3 | US-09-982-616-11 | Sequence 11, Appl |
| 179 | 37 | 63.8 | 6 | 4 | US-10-648-547-102 | Sequence 102, App |
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| 181 | 37 | 63.8 | 9 | 5 | US-10-924-377-11 | Sequence 11, Appl |
| 182 | 37 | 63.8 | 10 | 4 | US-10-648-547-55 | Sequence 55, Appl |
| 183 | 37 | 63.8 | 10 | 4 | US-10-306-541-55 | Sequence 55, Appl |
| 184 | 37 | 63.8 | 15 | 4 | US-10-648-547-96 | Sequence 96, Appl |
| 185 | 37 | 63.8 | 15 | 4 | US-10-306-541-96 | Sequence 96, Appl |
| 186 | 37 | 63.8 | 55 | 4 | US-10-424-599-187167 | Sequence 187167, |
| 187 | 37 | 63.8 | 72 | 4 | US-10-424-599-267618 | Sequence 267618, |
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| 192 | 37 | 63.8 | 156 | 4 | US-10-724-972A-4914 | Sequence 4914, Ap |
| 193 | 37 | 63.8 | 294 | 4 | US-10-424-599-276371 | Sequence 276371, |
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| 203 | 36 | 62.1 | 72 | 4 | US-10-424-599-208018 | Sequence 208018, |
| 204 | 36 | 62.1 | 77 | 4 | US-10-767-701-49060 | Sequence 49060, A |
| 205 | 36 | 62.1 | 85 | 4 | US-10-425-114-67149 | Sequence 67149, A |
| 206 | 36 | 62.1 | 93 | 4 | US-10-425-115-215036 | Sequence 215036, |
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| 208 | 36 | 62.1 | 98 | 4 | US-10-424-599-253219 | Sequence 253219, |
| 209 | 36 | 62.1 | 111 | 4 | US-10-437-963-118006 | Sequence 118006, |
| 210 | 36 | 62.1 | 112 | 4 | US-10-437-963-118002 | Sequence 118002, |
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| 212 | 36 | 62.1 | 113 | 4 | US-10-424-599-216434 | Sequence 216434, |
| 213 | 36 | 62.1 | 113 | 4 | US-10-437-963-117994 | Sequence 117994, |
| 214 | 36 | 62.1 | 135 | 4 | US-10-437-963-169675 | Sequence 169675, |
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| 216 | 36 | 62.1 | 403 | 4 | US-10-282-122A-42913 | Sequence 42913, A |
| 217 | 36 | 62.1 | 445 | 5 | US-10-732-923-2819 | Sequence 2819, Ap |
| 218 | 36 | 62.1 | 445 | 5 | US-10-732-923-2820 | Sequence 2820, Ap |
| 219 | 36 | 62.1 | 615 | 4 | US-10-437-963-193214 | Sequence 193214, |
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| 245 | 35 | 60.3 | 84 | 3 | US-09-989-731-246 | Sequence 246, App |
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| 249 | 35 | 60.3 | 84 | 3 | US-09-991-163-246 | Sequence 246, App |
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| 783 | 35 | 60.3 | 84 | 4 | US-10-187-739-186 | Sequence 186, App |
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| 787 | 35 | 60.3 | 84 | 4 | US-10-063-588-44 | Sequence 186, App |
| 788 | 35 | 60.3 | 84 | 4 | US-10-063-735-44 | Sequence 186, App |
| 789 | 35 | 60.3 | 84 | 4 | US-10-199-672-186 | Sequence 186, App |
| 790 | 35 | 60.3 | 84 | 4 | US-10-187-749-186 | Sequence 186, App |
| 791 | 35 | 60.3 | 84 | 4 | US-10-194-457-186 | Sequence 186, App |
| 792 | 35 | 60.3 | 84 | 4 | US-10-184-642-186 | Sequence 186, App |
| 793 | 35 | 60.3 | 84 | 4 | US-10-196-747-186 | Sequence 186, App |
| 794 | 35 | 60.3 | 84 | 4 | US-10-173-689-186 | Sequence 186, App |
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| 796 | 35 | 60.3 | 84 | 4 | US-10-173-691-186 | Sequence 186, App |
| 797 | 35 | 60.3 | 84 | 4 | US-10-173-694-186 | Sequence 186, App |
| 798 | 35 | 60.3 | 84 | 4 | US-10-173-698-186 | Sequence 186, App |
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| 800 | 35 | 60.3 | 84 | 4 | US-10-173-707-186 | Sequence 186, App |
| 801 | 35 | 60.3 | 84 | 4 | US-10-174-569-186 | Sequence 186, App |
| 802 | 35 | 60.3 | 84 | 4 | US-10-174-583-186 | Sequence 186, App |
| 803 | 35 | 60.3 | 84 | 4 | US-10-174-587-186 | Sequence 186, App |
| 804 | 35 | 60.3 | 84 | 4 | US-10-174-589-186 | Sequence 186, App |
| 805 | 35 | 60.3 | 84 | 4 | US-10-174-591-186 | Sequence 186, App |
| 806 | 35 | 60.3 | 84 | 4 | US-10-175-736-186 | Sequence 186, App |
| 807 | 35 | 60.3 | 84 | 4 | US-10-175-742-186 | Sequence 186, App |
| 808 | 35 | 60.3 | 84 | 4 | US-10-175-744-186 | Sequence 186, App |
| 809 | 35 | 60.3 | 84 | 4 | US-10-175-745-186 | Sequence 186, App |
| 810 | 35 | 60.3 | 84 | 4 | US-10-175-748-186 | Sequence 186, App |
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| 814 | 35 | 60.3 | 84 | 4 | US-10-176-489-186 | Sequence 186, App |
| 815 | 35 | 60.3 | 84 | 4 | US-10-176-754-186 | Sequence 186, App |
| 816 | 35 | 60.3 | 84 | 4 | US-10-176-755-186 | Sequence 186, App |
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| 829 | 35 | 60.3 | 84 | 4 | US-10-174-574-186 | Sequence 186, App |
| 830 | 35 | 60.3 | 84 | 4 | US-10-176-486-186 | Sequence 186, App |

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| 832 | 35 | 60.3 | 84 | 4 | US-10-176-752-186 | Sequence 186, App |
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| 837 | 35 | 60.3 | 84 | 4 | US-10-179-521-186 | Sequence 186, App |
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| 840 | 35 | 60.3 | 84 | 4 | US-10-063-546-44 | Sequence 44, Appl |
| 841 | 35 | 60.3 | 84 | 4 | US-10-063-564-44 | Sequence 44, Appl |
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| 843 | 35 | 60.3 | 84 | 4 | US-10-063-510-44 | Sequence 44, Appl |
| 844 | 35 | 60.3 | 84 | 4 | US-10-063-669-44 | Sequence 44, Appl |
| 845 | 35 | 60.3 | 84 | 4 | US-10-063-670-44 | Sequence 44, Appl |
| 846 | 35 | 60.3 | 84 | 4 | US-10-063-671-44 | Sequence 44, Appl |
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| 850 | 35 | 60.3 | 84 | 4 | US-10-063-686-44 | Sequence 44, Appl |
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| 862 | 35 | 60.3 | 84 | 4 | US-10-063-724-44 | Sequence 44, Appl |
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| 868 | 35 | 60.3 | 84 | 4 | US-10-063-743-44 | Sequence 44, Appl |
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| 915 | 35 | 60.3 | 84 | 4 | US-10-063-582-44 | Sequence 44, Appl |
| 916 | 35 | 60.3 | 84 | 4 | US-10-063-587-44 | Sequence 44, Appl |
| 917 | 35 | 60.3 | 84 | 4 | US-10-063-592-44 | Sequence 44, Appl |
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| 931 | 35 | 60.3 | 84 | 4 | US-10-063-584-44 | Sequence 44, Appl |
| 932 | 35 | 60.3 | 84 | 4 | US-10-063-536-44 | Sequence 44, Appl |
| 933 | 35 | 60.3 | 84 | 4 | US-10-063-562-44 | Sequence 44, Appl |
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| 938 | 35 | 60.3 | 84 | 4 | US-10-063-721-44 | Sequence 44, Appl |
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| 940 | 35 | 60.3 | 84 | 4 | US-10-063-514-44 | Sequence 44, Appl |
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| 950 | 35 | 60.3 | 84 | 4 | US-10-063-677-44 | Sequence 44, Appl |
| 951 | 35 | 60.3 | 84 | 4 | US-10-063-718-44 | Sequence 44, Appl |
| 952 | 35 | 60.3 | 84 | 4 | US-10-063-741-44 | Sequence 44, Appl |
| 953 | 35 | 60.3 | 84 | 4 | US-10-063-617-44 | Sequence 44, Appl |
| 954 | 35 | 60.3 | 84 | 4 | US-10-063-664-44 | Sequence 44, Appl |
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| 957 | 35 | 60.3 | 84 | 4 | US-10-063-657-44 | Sequence 44, Appl |
| 958 | 35 | 60.3 | 84 | 4 | US-10-063-668-44 | Sequence 44, Appl |
| 959 | 35 | 60.3 | 84 | 4 | US-10-170-385-141 | Sequence 141, App |
| 960 | 35 | 60.3 | 84 | 4 | US-10-195-887-186 | Sequence 186, App |
| 961 | 35 | 60.3 | 84 | 4 | US-10-195-893-186 | Sequence 186, App |
| 962 | 35 | 60.3 | 84 | 4 | US-10-179-509-186 | Sequence 186, App |
| 963 | 35 | 60.3 | 84 | 4 | US-10-194-486-186 | Sequence 186, App |
| 964 | 35 | 60.3 | 84 | 4 | US-10-195-900-186 | Sequence 186, App |
| 965 | 35 | 60.3 | 84 | 4 | US-10-198-759-186 | Sequence 186, App |
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| 968 | 35 | 60.3 | 84 | 4 | US-10-183-005-186 | Sequence 186, App |
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| 971 | 35 | 60.3 | 84 | 4 | US-10-202-471-186 | Sequence 186, App |
| 972 | 35 | 60.3 | 84 | 4 | US-10-207-915-186 | Sequence 186, App |
| 973 | 35 | 60.3 | 84 | 4 | US-10-219-538-246 | Sequence 246, App |
| 974 | 35 | 60.3 | 84 | 4 | US-10-197-709-186 | Sequence 186, App |
| 975 | 35 | 60.3 | 84 | 4 | US-10-206-915-186 | Sequence 186, App |
| 976 | 35 | 60.3 | 84 | 4 | US-10-199-670-186 | Sequence 186, App |

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| 977 | 35 | 60.3 | 84 | 4 | US-10-201-858-186 | Sequence 186, App |
| 978 | 35 | 60.3 | 84 | 4 | US-10-205-890-186 | Sequence 186, App |
| 979 | 35 | 60.3 | 84 | 4 | US-10-208-024-186 | Sequence 186, App |
| 980 | 35 | 60.3 | 84 | 4 | US-10-201-853-186 | Sequence 186, App |
| 981 | 35 | 60.3 | 84 | 4 | US-10-063-745-44 | Sequence 44, Appl |
| 982 | 35 | 60.3 | 84 | 4 | US-10-206-916-186 | Sequence 186, App |
| 983 | 35 | 60.3 | 84 | 4 | US-10-299-486-2 | Sequence 2, Appli |
| 984 | 35 | 60.3 | 84 | 5 | US-10-972-317-44 | Sequence 44, Appl |
| 985 | 35 | 60.3 | 84 | 5 | US-10-863-332-445 | Sequence 445, App |
| 986 | 35 | 60.3 | 84 | 5 | US-10-183-001-186 | Sequence 186, App |
| 987 | 35 | 60.3 | 84 | 5 | US-10-950-374-246 | Sequence 246, App |
| 988 | 35 | 60.3 | 84 | 5 | US-10-175-749-186 | Sequence 186, App |
| 989 | 35 | 60.3 | 84 | 5 | US-10-287-436A-577 | Sequence 577, App |
| 990 | 35 | 60.3 | 84 | 5 | US-10-287-436A-578 | Sequence 578, App |
| 991 | 35 | 60.3 | 84 | 5 | US-10-180-554-186 | Sequence 186, App |
| 992 | 35 | 60.3 | 86 | 4 | US-10-424-599-249255 | Sequence 249255, |
| 993 | 35 | 60.3 | 101 | 4 | US-10-424-599-169679 | Sequence 169679, |
| 994 | 35 | 60.3 | 102 | 4 | US-10-369-493-1368 | Sequence 1368, Ap |
| 995 | 35 | 60.3 | 110 | 4 | US-10-437-963-146786 | Sequence 146786, |
| 996 | 35 | 60.3 | 110 | 4 | US-10-437-963-175231 | Sequence 175231, |
| 997 | 35 | 60.3 | 111 | 4 | US-10-437-963-146785 | Sequence 146785, |
| 998 | 35 | 60.3 | 112 | 4 | US-10-437-963-117991 | Sequence 117991, |
| 999 | 35 | 60.3 | 112 | 4 | US-10-437-963-117999 | Sequence 117999, |
| 1000 | 35 | 60.3 | 112 | 4 | US-10-437-963-120105 | Sequence 120105, |

ALIGNMENTS

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RESULT 1
US-09-891-823-9
; Sequence 9, Application US/09891823
; Publication No. US20020110566A1
; GENERAL INFORMATION:
;  APPLICANT: Neefe, John R.
;  APPLICANT:  Boux, Leslie J.
;  APPLICANT:  Winnett, Mark T.
;  APPLICANT:  Goldstone, Stephen E.
;  APPLICANT:  Siegel, Marvin
;  TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
;  FILE REFERENCE: 12071-003001
;  CURRENT APPLICATION NUMBER: US/09/891,823
;  CURRENT FILING DATE:  2001-10-19
;  PRIOR APPLICATION NUMBER: US 60/214,202
;  PRIOR FILING DATE: 2000-06-26
;  NUMBER OF SEQ ID NOS: 140
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papilloma virus
US-09-891-823-9

  Query Match             100.0%;  Score 58;  DB 3;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.7e+06;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db          1 HYNIVTFCC 9


RESULT 2
US-10-365-908-9
; Sequence 9, Application US/10365908
; Publication No. US20030170268A1
; GENERAL INFORMATION:
;  APPLICANT: Neefe, John R.
;  APPLICANT:  Boux, Leslie J.
;  APPLICANT:  Winnett, Mark T.
;  APPLICANT:  Goldstone, Stephen E.
;  APPLICANT:  Siegel, Marvin
;  TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
;  FILE REFERENCE: 12071-003001
;  CURRENT APPLICATION NUMBER: US/10/365,908
;  CURRENT FILING DATE:  2003-02-13
;  PRIOR APPLICATION NUMBER: US/09/891,823
;  PRIOR FILING DATE: 2001-10-19
;  PRIOR APPLICATION NUMBER: US 60/214,202
;  PRIOR FILING DATE: 2000-06-26
;  NUMBER OF SEQ ID NOS: 140
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papilloma virus
US-10-365-908-9

  Query Match             100.0%;  Score 58;  DB 4;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.7e+06;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db          1 HYNIVTFCC 9


RESULT 3
US-10-871-138-9
; Sequence 9, Application US/10871138
; Publication No. US20040235741A1
; GENERAL INFORMATION:
;  APPLICANT: Neefe, John R.
;  APPLICANT:  Boux, Leslie J.
;  APPLICANT:  Winnett, Mark T.
;  APPLICANT:  Goldstone, Stephen E.
;  APPLICANT:  Siegel, Marvin
;  TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
;  FILE REFERENCE: 12071-003001
;  CURRENT APPLICATION NUMBER: US/10/871,138
;  CURRENT FILING DATE:  2004-06-18
;  PRIOR APPLICATION NUMBER: US/09/891,823
;  PRIOR FILING DATE: 2001-06-26
;  PRIOR APPLICATION NUMBER: US 60/214,202
;  PRIOR FILING DATE: 2000-06-26
;  NUMBER OF SEQ ID NOS: 140
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papilloma virus
US-10-871-138-9

  Query Match             100.0%;  Score 58;  DB 5;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.7e+06;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db          1 HYNIVTFCC 9


RESULT 4
US-10-648-547-61
; Sequence 61, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/9
;  CURRENT APPLICATION NUMBER: US/10/648,547
;  CURRENT FILING DATE:  2003-08-25
;  PRIOR APPLICATION NUMBER: 10/306,541
;  PRIOR FILING DATE: 11-25-2002
;  PRIOR APPLICATION NUMBER: 60/333,249
```

; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 61
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-61

Query Match 100.0%; Score 58; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.01;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
||||||||| 
Db 3 HYNIVTFCC 11

RESULT 5
US-10-648-547-62
; Sequence 62, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 62
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-62

Query Match 100.0%; Score 58; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.01;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
||||||||| 
Db 4 HYNIVTFCC 12

RESULT 6
US-10-648-547-63
; Sequence 63, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 63
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-63

Query Match 100.0%; Score 58; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.01;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
||||||||| 
Db 1 HYNIVTFCC 9

RESULT 7
US-10-648-547-64
; Sequence 64, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 64
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-64

Query Match 100.0%; Score 58; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.01;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
||||||||| 
Db 6 HYNIVTFCC 14

RESULT 8
US-10-648-547-74
; Sequence 74, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 74
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-74

Query Match 100.0%; Score 58; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.01;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
||||||||| 
Db 7 HYNIVTFCC 15

```
RESULT 9
US-10-306-541-61
; Sequence 61, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/4
;  CURRENT APPLICATION NUMBER: US/10/306,541
;  CURRENT FILING DATE:  2003-11-25
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 2001-11-23
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 61
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-306-541-61

  Query Match           100.0%;  Score 58;  DB 4;  Length 15;
  Best Local Similarity  100.0%;  Pred. No. 0.01;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db          3 HYNIVTFCC 11


RESULT 10
US-10-306-541-62
; Sequence 62, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/4
;  CURRENT APPLICATION NUMBER: US/10/306,541
;  CURRENT FILING DATE:  2003-11-25
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 2001-11-23
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 62
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-306-541-62

  Query Match           100.0%;  Score 58;  DB 4;  Length 15;
  Best Local Similarity  100.0%;  Pred. No. 0.01;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db          4 HYNIVTFCC 12


RESULT 11
US-10-306-541-63
; Sequence 63, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/4
;  CURRENT APPLICATION NUMBER: US/10/306,541
;  CURRENT FILING DATE:  2003-11-25
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 2001-11-23
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 63
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-306-541-63

  Query Match           100.0%;  Score 58;  DB 4;  Length 15;
  Best Local Similarity  100.0%;  Pred. No. 0.01;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db          1 HYNIVTFCC 9


RESULT 12
US-10-306-541-64
; Sequence 64, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/4
;  CURRENT APPLICATION NUMBER: US/10/306,541
;  CURRENT FILING DATE:  2003-11-25
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 2001-11-23
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 64
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-306-541-64

  Query Match           100.0%;  Score 58;  DB 4;  Length 15;
  Best Local Similarity  100.0%;  Pred. No. 0.01;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db          6 HYNIVTFCC 14


RESULT 13
US-10-306-541-74
; Sequence 74, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/4
;  CURRENT APPLICATION NUMBER: US/10/306,541
;  CURRENT FILING DATE:  2003-11-25
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 2001-11-23
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 74
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-306-541-74

  Query Match           100.0%;  Score 58;  DB 4;  Length 15;
  Best Local Similarity  100.0%;  Pred. No. 0.01;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
```

```
                  |||||||||
Db          7 HYNIVTFCC 15


RESULT 14
US-10-858-384-16
; Sequence 16, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 16
;   LENGTH: 17
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
;   OTHER INFORMATION: for E7 of HPV
US-10-858-384-16

  Query Match             100.0%;  Score 58;  DB 5;  Length 17;
  Best Local Similarity   100.0%;  Pred. No. 0.012;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db          8 HYNIVTFCC 16


RESULT 15
US-10-654-200-56
; Sequence 56, Application US/10654200
; Publication No. US20040170606A1
; GENERAL INFORMATION:
;  APPLICANT: Large Scale Biology Corporation
;  TITLE OF INVENTION: PRODUCTION OF PEPTIDES IN PLANTS AS VIRAL COAT PROTEIN FUSIONS
;  FILE REFERENCE: N9739
;  CURRENT APPLICATION NUMBER: US/10/654,200
;  CURRENT FILING DATE:  2003-09-03
;  PRIOR APPLICATION NUMBER: 60/407,795
;  PRIOR FILING DATE: 2002-09-03
;  PRIOR APPLICATION NUMBER: 60/386,921
;  PRIOR FILING DATE: 2002-06-07
;  PRIOR APPLICATION NUMBER: 10/457,082
;  PRIOR FILING DATE: 2003-06-06
;  NUMBER OF SEQ ID NOS: 106
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 56
;   LENGTH: 19
;   TYPE: PRT
;   ORGANISM: Human Papilloma Virus
US-10-654-200-56

  Query Match             100.0%;  Score 58;  DB 4;  Length 19;
  Best Local Similarity   100.0%;  Pred. No. 0.013;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db          8 HYNIVTFCC 16


RESULT 16
US-10-484-063-14
; Sequence 14, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
;   LENGTH: 19
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-484-063-14

  Query Match             100.0%;  Score 58;  DB 5;  Length 19;
  Best Local Similarity   100.0%;  Pred. No. 0.013;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db          8 HYNIVTFCC 16


RESULT 17
US-10-432-465-48
; Sequence 48, Application US/10432465
; Publication No. US20040091479A1
; GENERAL INFORMATION:
;  APPLICANT: Nieland, John
;  APPLICANT:  Kaufmann, Andreas
;  APPLICANT:  Kather, Angela
;  APPLICANT:  Schinz, Manuela
;  TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1
;  TITLE OF INVENTION:  Protein and E7 Protein and Their Use in Diagnosis and
;  TITLE OF INVENTION:  Therapy
;  FILE REFERENCE: 50125/077001
;  CURRENT APPLICATION NUMBER: US/10/432,465
;  CURRENT FILING DATE:  2003-12-10
;  PRIOR APPLICATION NUMBER: PCT/EP01/14037
;  PRIOR FILING DATE: 2001-11-30
;  PRIOR APPLICATION NUMBER: DE 10059631.2
;  PRIOR FILING DATE: 2000-12-01
;  NUMBER OF SEQ ID NOS: 116
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 48
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-432-465-48

  Query Match             100.0%;  Score 58;  DB 4;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.014;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db          7 HYNIVTFCC 15


RESULT 18
```

US-10-654-200-57
; Sequence 57, Application US/10654200
; Publication No. US20040170606A1
; GENERAL INFORMATION:
; APPLICANT: Large Scale Biology Corporation
; TITLE OF INVENTION: PRODUCTION OF PEPTIDES IN PLANTS AS VIRAL COAT PROTEIN FUSIONS
; FILE REFERENCE: N9739
; CURRENT APPLICATION NUMBER: US/10/654,200
; CURRENT FILING DATE: 2003-09-03
; PRIOR APPLICATION NUMBER: 60/407,795
; PRIOR FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: 60/386,921
; PRIOR FILING DATE: 2002-06-07
; PRIOR APPLICATION NUMBER: 10/457,082
; PRIOR FILING DATE: 2003-06-06
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 57
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human Papilloma Virus
US-10-654-200-57

Query Match 100.0%; Score 58; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.014;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
||||||||||
Db 9 HYNIVTFCC 17

RESULT 19
US-10-890-526-73
; Sequence 73, Application US/10890526
; Publication No. US20040258708A1
; GENERAL INFORMATION:
; APPLICANT: Jochmus, Ingrid
; APPLICANT: Nieland, John
; TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
; TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
; TITLE OF INVENTION: Therapy
; FILE REFERENCE: 50125/036001
; CURRENT APPLICATION NUMBER: US/10/890,526
; CURRENT FILING DATE: 2004-07-13
; PRIOR APPLICATION NUMBER: US/09/980,177
; PRIOR FILING DATE: 2002-05-02
; PRIOR APPLICATION NUMBER: PCT/EP00/05006
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: DE 19925199.1
; PRIOR FILING DATE: 1999-06-01
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 73
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-890-526-73

Query Match 100.0%; Score 58; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.014;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
||||||||||
Db 7 HYNIVTFCC 15

RESULT 20
US-10-648-547-107
; Sequence 107, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 107
; LENGTH: 21
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-107

Query Match 100.0%; Score 58; DB 4; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.014;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
||||||||||
Db 7 HYNIVTFCC 15

RESULT 21
US-10-306-541-107
; Sequence 107, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 107
; LENGTH: 21
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-107

Query Match 100.0%; Score 58; DB 4; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.014;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
||||||||||
Db 7 HYNIVTFCC 15

RESULT 22
US-09-728-466-1
; Sequence 1, Application US/09728466
; Patent No. US20010029022A1
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
; APPLICANT: He, Wanxia
; TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
; FILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/09/728,466
; CURRENT FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: 09/382,616
; PRIOR FILING DATE: 1999-08-25
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1

```
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Papillomavirus sylvilagi
US-09-728-466-1

  Query Match             100.0%;  Score 58;  DB 3;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.058;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 23
US-09-820-765-4
; Sequence 4, Application US/09820765
; Publication No. US20020039584A1
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                            FORMULATIONS AND METHODS OF USE
;        NUMBER OF SEQUENCES: 28
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: FOLEY & LARDNER
;             STREET: 3000 K Street, N.W.
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: U.S.A.
;             ZIP: 20007-5109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/820,765
;             FILING DATE: 30-Mar-2001
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US 09/026,896
;             FILING DATE: 20-FEB-1998
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Sandercock, Colin G.
;             REGISTRATION NUMBER: 31,298
;             REFERENCE/DOCKET NUMBER: 37067/102
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 672-5300
;             TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 98 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-765-4

  Query Match             100.0%;  Score 58;  DB 3;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.058;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 24
US-09-824-017-4
; Sequence 4, Application US/09824017
; Publication No. US20020197668A1
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                            FORMULATIONS AND METHODS OF USE
;        NUMBER OF SEQUENCES: 28
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: FOLEY & LARDNER
;             STREET: 3000 K Street, N.W.
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: U.S.A.
;             ZIP: 20007-5109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/824,017
;             FILING DATE: 03-Apr-2001
;             CLASSIFICATION: 424
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 09/026,896
;             FILING DATE: 1998-02-20
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Sandercock, Colin G.
;             REGISTRATION NUMBER: 31,298
;             REFERENCE/DOCKET NUMBER: 37067/102
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 672-5300
;             TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 98 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-824-017-4

  Query Match             100.0%;  Score 58;  DB 3;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.058;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 25
US-09-986-118A-4
; Sequence 4, Application US/09986118A
; Publication No. US20030021806A1
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                            FORMULATIONS AND METHODS OF USE
;        NUMBER OF SEQUENCES: 28
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: FOLEY & LARDNER
;             STREET: 3000 K Street, N.W.
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: U.S.A.
;             ZIP: 20007-5109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/986,118A
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;            FILING DATE: 07-No. US20030021806A1-2001
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: US 09/026,896
;            FILING DATE: <Unknown>
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Sandercock, Colin G.
;            REGISTRATION NUMBER: 31,298
;            REFERENCE/DOCKET NUMBER: 37067/102
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (202) 672-5300
;            TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 98 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

  Query Match             100.0%;  Score 58;  DB 3;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.058;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 26
US-10-267-311-8
; Sequence 8, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-8

  Query Match             100.0%;  Score 58;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.058;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 27
US-10-177-390-8
; Sequence 8, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
;  APPLICANT: Schuler, Gerold
;  APPLICANT:  N.V. Antwerps Innovatiecentrum
;  TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
;  TITLE OF INVENTION:  Polynucleotides by Electroporation
;  FILE REFERENCE: 021505wo/JH/ml
;  CURRENT APPLICATION NUMBER: US/10/177,390
;  CURRENT FILING DATE:  2002-06-20
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: fragment of
;   OTHER INFORMATION: human papilloma virus type 16 E7 gene
US-10-177-390-8

  Query Match             100.0%;  Score 58;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.058;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 28
US-10-201-764-19
; Sequence 19, Application US/10201764
; Publication No. US20030166140A1
; GENERAL INFORMATION:
;  APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
;  TITLE OF INVENTION:  IMMUNE RESPONSE
;  FILE REFERENCE: TBA
;  CURRENT APPLICATION NUMBER: US/10/201,764
;  CURRENT FILING DATE:  2002-07-22
;  PRIOR APPLICATION NUMBER: US/09/566,420
;  PRIOR FILING DATE: 2000-05-05
;  PRIOR APPLICATION NUMBER: 60/132,752
;  PRIOR FILING DATE: 1999-05-06
;  PRIOR APPLICATION NUMBER: 60/132,750
;  PRIOR FILING DATE: 1999-05-06
;  NUMBER OF SEQ ID NOS: 19
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type E7
US-10-201-764-19

  Query Match             100.0%;  Score 58;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.058;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 29
US-10-392-113-29
; Sequence 29, Application US/10392113
; Publication No. US20030224993A1
; GENERAL INFORMATION:
;  APPLICANT: Land, Hartmut
;  APPLICANT:  Deleu, Laurent
;  TITLE OF INVENTION: COMPOSITIONS THAT INHIBIT PROLIFERATION
;  TITLE OF INVENTION:  OF CANCER CELLS
;  FILE REFERENCE: 21108.0005U3
;  CURRENT APPLICATION NUMBER: US/10/392,113
;  CURRENT FILING DATE:  2003-03-17
;  PRIOR APPLICATION NUMBER: 60/365,078
;  PRIOR FILING DATE: 2002-03-15
;  PRIOR APPLICATION NUMBER: PCT/US01/32127
```

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;  PRIOR FILING DATE: 2001-10-15
;  PRIOR APPLICATION NUMBER: 60/239,705
;  PRIOR FILING DATE: 2000-10-12
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 29
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:/Note =
;   OTHER INFORMATION: Synthetic Construct
US-10-392-113-29

  Query Match             100.0%;  Score 58;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.058;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 30
US-10-654-129-4
; Sequence 4, Application US/10654129
; Publication No. US20040081661A1
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                            FORMULATIONS AND METHODS OF USE
;        NUMBER OF SEQUENCES: 28
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: FOLEY & LARDNER
;             STREET: 3000 K Street, N.W.
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: U.S.A.
;             ZIP: 20007-5109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/654,129
;             FILING DATE: 04-Sep-2003
;             CLASSIFICATION: 424
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US/09/824,017
;             FILING DATE: 03-Apr-2001
;             APPLICATION NUMBER: 09/026,896
;             FILING DATE: 1998-02-20
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Sandercock, Colin G.
;             REGISTRATION NUMBER: 31,298
;             REFERENCE/DOCKET NUMBER: 37067/102
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 672-5300
;             TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 98 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-654-129-4

  Query Match             100.0%;  Score 58;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.058;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 31
US-10-681-410-19
; Sequence 19, Application US/10681410
; Publication No. US20040096426A1
; GENERAL INFORMATION:
;  APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
;  TITLE OF INVENTION:  IMMUNE RESPONSE
;  FILE REFERENCE: TBA
;  CURRENT APPLICATION NUMBER: US/10/681,410
;  CURRENT FILING DATE:  2003-10-08
;  PRIOR APPLICATION NUMBER: US/10/201,764
;  PRIOR FILING DATE: 2002-07-22
;  PRIOR APPLICATION NUMBER: US/09/566,420
;  PRIOR FILING DATE: 2000-05-05
;  PRIOR APPLICATION NUMBER: 60/132,752
;  PRIOR FILING DATE: 1999-05-06
;  PRIOR APPLICATION NUMBER: 60/132,750
;  PRIOR FILING DATE: 1999-05-06
;  NUMBER OF SEQ ID NOS: 19
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type E7
US-10-681-410-19

  Query Match             100.0%;  Score 58;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.058;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 32
US-10-772-988-3
; Sequence 3, Application US/10772988
; Publication No. US20040139485A1
; GENERAL INFORMATION:
;  APPLICANT: Thorgeirsson, Snorri S.
;  APPLICANT:  Woitach, Joseph T.
;  APPLICANT:  Zhang, Minghuang
;  TITLE OF INVENTION: cDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS PROTEI
;  TITLE OF INVENTION:  PRODUCT
;  FILE REFERENCE: 11613.29USW1
;  CURRENT APPLICATION NUMBER: US/10/772,988
;  CURRENT FILING DATE:  2004-02-05
;  PRIOR APPLICATION NUMBER: US/09/637,746
;  PRIOR FILING DATE: 2000-08-11
;  PRIOR APPLICATION NUMBER: PCT/US99/04142
;  PRIOR FILING DATE: 1999-02-25
;  PRIOR APPLICATION NUMBER: US 60/079,567
;  PRIOR FILING DATE: 1998-03-27
;  PRIOR APPLICATION NUMBER: US 60/075,922
;  PRIOR FILING DATE: 1998-02-25
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-772-988-3

  Query Match             100.0%;  Score 58;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.058;
```

```
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 33
US-10-479-541-5
; Sequence 5, Application US/10479541
; Publication No. US20040151723A1
; GENERAL INFORMATION:
;  APPLICANT: Kirin Beer Kabushiki Kaisha
;  TITLE OF INVENTION: Novel E7 antigen epitope from human papillomavirus and
;  TITLE OF INVENTION:  CD4+ T cells activated thereby
;  FILE REFERENCE: 137240PX
;  CURRENT APPLICATION NUMBER: US/10/479,541
;  CURRENT FILING DATE:  2003-12-04
;  PRIOR APPLICATION NUMBER: 173803/2001
;  PRIOR FILING DATE: 2001-06-08
;  NUMBER OF SEQ ID NOS: 5
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-479-541-5

  Query Match           100.0%;  Score 58;  DB 4;  Length 98;
  Best Local Similarity  100.0%;  Pred. No. 0.058;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 34
US-10-042-526A-4
; Sequence 4, Application US/10042526A
; Publication No. US20050031636A1
; GENERAL INFORMATION:
;  APPLICANT: GISSMANN, et al.
;  TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE FORMULATIONS AND METHODS OF USE
;  FILE REFERENCE: 27013/38150
;  CURRENT APPLICATION NUMBER: US/10/042,526A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: US 09/632,286
;  PRIOR FILING DATE: 2000-08-03
;  PRIOR APPLICATION NUMBER: US 08/944,368
;  PRIOR FILING DATE: 1997-10-06
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 4
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human Papilloma Virus
US-10-042-526A-4

  Query Match           100.0%;  Score 58;  DB 5;  Length 98;
  Best Local Similarity  100.0%;  Pred. No. 0.058;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 35
US-10-657-399-1
; Sequence 1, Application US/10657399
; Publication No. US20050032038A1
; GENERAL INFORMATION:
;  APPLICANT: Fisher, Christopher
;  APPLICANT:  He, Wanxia
;  TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
;  FILE REFERENCE: 28341/6216
;  CURRENT APPLICATION NUMBER: US/10/657,399
;  CURRENT FILING DATE:  2003-09-08
;  PRIOR APPLICATION NUMBER: US/09/728,466
;  PRIOR FILING DATE: 2000-12-01
;  PRIOR APPLICATION NUMBER: 09/382,616
;  PRIOR FILING DATE: 1999-08-25
;  NUMBER OF SEQ ID NOS: 43
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Papillomavirus sylvilagi
US-10-657-399-1

  Query Match           100.0%;  Score 58;  DB 5;  Length 98;
  Best Local Similarity  100.0%;  Pred. No. 0.058;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 36
US-10-858-384-12
; Sequence 12, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 12
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-10-858-384-12

  Query Match           100.0%;  Score 58;  DB 5;  Length 98;
  Best Local Similarity  100.0%;  Pred. No. 0.058;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 37
US-10-484-063-26
; Sequence 26, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
```

; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 26
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-26

Query Match 100.0%; Score 58; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.058;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
||||||||| 
Db 51 HYNIVTFCC 59

RESULT 38
US-10-343-448-5
; Sequence 5, Application US/10343448
; Publication No. US20050054820A1
; GENERAL INFORMATION:
; APPLICANT: WU, Tzyy-Choou
; APPLICANT: HUNG, Chien-Fu
; TITLE OF INVENTION: MOLECULAR VACCINE LINKING AN ENDOPLASMIC RETICULUM CHAPERONE
; TITLE OF INVENTION: POLYPEPTIDE TO AN ANTIGEN
; FILE REFERENCE: 2240-186463
; CURRENT APPLICATION NUMBER: US/10/343,448
; CURRENT FILING DATE: 2003-01-31
; PRIOR APPLICATION NUMBER: PCT/US01/24134
; PRIOR FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: US 60/222,902
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-343-448-5

Query Match 100.0%; Score 58; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.058;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
||||||||| 
Db 51 HYNIVTFCC 59

RESULT 39
US-10-679-956-8
; Sequence 8, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/679,956
; CURRENT FILING DATE: 2003-10-06
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-679-956-8

Query Match 100.0%; Score 58; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.058;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
||||||||| 
Db 51 HYNIVTFCC 59

RESULT 40
US-10-367-057-17
; Sequence 17, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
; APPLICANT: Cuthill, Scott;
; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; APPLICANT: Ooi, Chean Eng
; TITLE OF INVENTION: Complexes and Methods of Using Same
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/256,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 17
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-367-057-17

Query Match 100.0%; Score 58; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.058;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
||||||||| 
Db 51 HYNIVTFCC 59

RESULT 41
US-11-077-939-5
; Sequence 5, Application US/11077939
; Publication No. US20050196865A1
; GENERAL INFORMATION:
; APPLICANT: Frazer, Ian Hector
; TITLE OF INVENTION: Gene Expression System Based on Codon Translation Efficiency
; FILE REFERENCE: 10338-11U1
; CURRENT APPLICATION NUMBER: US/11/077,939
; CURRENT FILING DATE: 2005-03-11
; PRIOR APPLICATION NUMBER: PCT/AU2003/001200
; PRIOR FILING DATE: 2003-09-12
; PRIOR APPLICATION NUMBER: US 60/410410
; PRIOR FILING DATE: 2002-09-13
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-11-077-939-5

Query Match 100.0%; Score 58; DB 6; Length 98;

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  Best Local Similarity   100.0%;  Pred. No. 0.058;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 42
US-10-115-440-7
; Sequence 7, Application US/10115440
; Publication No. US20040086845A1
; GENERAL INFORMATION:
;  APPLICANT: WU, Tzyy-Choou
;  APPLICANT:  HUNG, Chien-Fu
;  TITLE OF INVENTION: SUPERIOR MOLECULAR VACCINE LINKING THE TRANSLOCATION DOMAIN OF A
;  TITLE OF INVENTION:  BACTERIAL TOXIN TO AN ANTIGEN
;  FILE REFERENCE: 02240-179934
;  CURRENT APPLICATION NUMBER: US/10/115,440
;  CURRENT FILING DATE:  2002-09-30
;  PRIOR APPLICATION NUMBER: US 60/281,003
;  PRIOR FILING DATE: 2001-04-04
;  PRIOR APPLICATION NUMBER: PCT/US00/41422
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: US 09/501,097
;  PRIOR FILING DATE: 2000-02-09
;  PRIOR APPLICATION NUMBER: US 09/421,608
;  PRIOR FILING DATE: 1999-10-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
;   LENGTH: 99
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-115-440-7

  Query Match             100.0%;  Score 58;  DB 4;  Length 99;
  Best Local Similarity   100.0%;  Pred. No. 0.059;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
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Db         51 HYNIVTFCC 59


RESULT 43
US-10-472-724-4
; Sequence 4, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
;  APPLICANT: Cid-Arregui, Angel
;  APPLICANT:  Zur Hausen, Harald
;  TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
;  FILE REFERENCE: 4121-154
;  CURRENT APPLICATION NUMBER: US/10/472,724
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP02/03271
;  PRIOR FILING DATE: 2002-03-22
;  PRIOR APPLICATION NUMBER: EP 01107271.7
;  PRIOR FILING DATE: 2001-03-23
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
;   LENGTH: 111
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic Construct
US-10-472-724-4

  Query Match             100.0%;  Score 58;  DB 4;  Length 111;
  Best Local Similarity   100.0%;  Pred. No. 0.066;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         56 HYNIVTFCC 64


RESULT 44
US-10-267-311-12
; Sequence 12, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
;   LENGTH: 121
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-12

  Query Match             100.0%;  Score 58;  DB 4;  Length 121;
  Best Local Similarity   100.0%;  Pred. No. 0.071;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         74 HYNIVTFCC 82


RESULT 45
US-10-679-956-12
; Sequence 12, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/679,956
;  CURRENT FILING DATE:  2003-10-06
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
;   LENGTH: 121
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-679-956-12

  Query Match             100.0%;  Score 58;  DB 5;  Length 121;
  Best Local Similarity   100.0%;  Pred. No. 0.071;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
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Db         74 HYNIVTFCC 82


RESULT 46
US-11-072-288-2
; Sequence 2, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
;  APPLICANT: KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE: 017753-122
;  CURRENT APPLICATION NUMBER: US/11/072,288
;  CURRENT FILING DATE:  2005-03-07
;  PRIOR APPLICATION NUMBER: US/09/462,993
;  PRIOR FILING DATE: 2000-04-17
;  PRIOR APPLICATION NUMBER: PCT/FR98/01576
;  PRIOR FILING DATE: 1998-07-17
;  PRIOR APPLICATION NUMBER: FR 97/09152
;  PRIOR FILING DATE: 1997-07-18
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 2
;   LENGTH: 185
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Derivated from human papillomavirus, strain
;   OTHER INFORMATION: HPV-16, E7 fusion signals of the rabies
;   OTHER INFORMATION: glycoprotein, clone E7*TMR.
US-11-072-288-2

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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         70 HYNIVTFCC 78


RESULT 47
US-10-267-311-35
; Sequence 35, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 35
;   LENGTH: 198
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-35

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  Best Local Similarity   100.0%;  Pred. No. 0.11;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db        151 HYNIVTFCC 159


RESULT 48
US-10-679-956-35
; Sequence 35, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/679,956
;  CURRENT FILING DATE:  2003-10-06
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 35
;   LENGTH: 198
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-679-956-35

  Query Match             100.0%;  Score 58;  DB 5;  Length 198;
  Best Local Similarity   100.0%;  Pred. No. 0.11;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db        151 HYNIVTFCC 159


RESULT 49
US-10-000-903-1
; Sequence 1, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 1
;   LENGTH: 220
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-1

  Query Match             100.0%;  Score 58;  DB 4;  Length 220;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db        164 HYNIVTFCC 172
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RESULT 50
US-10-000-903-8
; Sequence 8, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 8
;   LENGTH: 220
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-8

  Query Match             100.0%;  Score 58;  DB 4;  Length 220;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db        164 HYNIVTFCC 172


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Job time : 63.9 secs
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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:46:05 ; Search time 8.4 Seconds
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49.591 Million cell updates/sec

Title: US-08-170-344-59
Perfect score: 58
Sequence: 1 HYNIVTFCC 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_New:*
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2: /SIDS5/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
3: /SIDS5/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
4: /SIDS5/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 1 | 58 | 100.0 | 35 | 11 | US-11-041-893-101 | Sequence 101, App |
| 2 | 58 | 100.0 | 98 | 8 | US-10-511-814-8 | Sequence 8, Appli |
| 3 | 58 | 100.0 | 98 | 8 | US-10-511-814-11 | Sequence 11, Appl |
| 4 | 58 | 100.0 | 98 | 9 | US-10-530-253-14 | Sequence 14, Appl |
| 5 | 58 | 100.0 | 98 | 11 | US-11-179-478-4 | Sequence 4, Appli |
| 6 | 58 | 100.0 | 248 | 9 | US-10-530-253-1 | Sequence 1, Appli |
| 7 | 58 | 100.0 | 248 | 9 | US-10-530-253-3 | Sequence 3, Appli |
| 8 | 58 | 100.0 | 248 | 9 | US-10-530-253-5 | Sequence 5, Appli |
| 9 | 58 | 100.0 | 248 | 9 | US-10-530-253-7 | Sequence 7, Appli |
| 10 | 58 | 100.0 | 248 | 9 | US-10-530-253-9 | Sequence 9, Appli |
| 11 | 58 | 100.0 | 248 | 9 | US-10-530-253-11 | Sequence 11, Appl |
| 12 | 58 | 100.0 | 256 | 11 | US-11-192-923A-2 | Sequence 2, Appli |
| 13 | 51 | 87.9 | 98 | 9 | US-10-530-253-28 | Sequence 28, Appl |
| 14 | 43 | 74.1 | 10 | 9 | US-10-530-061-666 | Sequence 666, App |
| 15 | 43 | 74.1 | 99 | 9 | US-10-530-253-30 | Sequence 30, Appl |
| 16 | 42 | 72.4 | 10 | 9 | US-10-530-061-665 | Sequence 665, App |
| 17 | 40 | 69.0 | 9 | 9 | US-10-530-253-41 | Sequence 41, Appl |
| 18 | 40 | 69.0 | 9 | 9 | US-10-962-951-9 | Sequence 9, Appli |
| 19 | 40 | 69.0 | 9 | 11 | US-11-041-893-100 | Sequence 100, App |
| 20 | 40 | 69.0 | 9 | 11 | US-11-121-840-5 | Sequence 5, Appli |
| 21 | 37 | 63.8 | 737 | 11 | US-11-128-420-9 | Sequence 9, Appli |
| 22 | 36 | 62.1 | 445 | 11 | US-11-188-298-7283 | Sequence 7283, Ap |
| 23 | 36 | 62.1 | 445 | 11 | US-11-188-298-11300 | Sequence 11300, A |
| 24 | 35 | 60.3 | 25 | 11 | US-11-119-293-27 | Sequence 27, Appl |
| 25 | 35 | 60.3 | 25 | 11 | US-11-119-293-28 | Sequence 28, Appl |
| 26 | 35 | 60.3 | 25 | 11 | US-11-119-293-31 | Sequence 31, Appl |
| 27 | 35 | 60.3 | 25 | 11 | US-11-119-293-32 | Sequence 32, Appl |
| 28 | 35 | 60.3 | 25 | 11 | US-11-119-293-34 | Sequence 34, Appl |
| 29 | 35 | 60.3 | 84 | 9 | US-10-063-703-44 | Sequence 44, Appl |
| 30 | 35 | 60.3 | 84 | 9 | US-10-194-487-186 | Sequence 186, App |
| 31 | 35 | 60.3 | 84 | 9 | US-10-195-883-186 | Sequence 186, App |
| 32 | 35 | 60.3 | 84 | 9 | US-10-195-888-186 | Sequence 186, App |
| 33 | 35 | 60.3 | 84 | 9 | US-10-195-889-186 | Sequence 186, App |
| 34 | 35 | 60.3 | 84 | 11 | US-11-102-240-44 | Sequence 44, Appl |
| 35 | 35 | 60.3 | 84 | 11 | US-11-103-195-44 | Sequence 44, Appl |
| 36 | 35 | 60.3 | 350 | 9 | US-10-515-604-2 | Sequence 2, Appli |
| 37 | 35 | 60.3 | 553 | 11 | US-11-090-439-18 | Sequence 18, Appl |
| 38 | 35 | 60.3 | 702 | 11 | US-11-079-463-8474 | Sequence 8474, Ap |
| 39 | 34 | 58.6 | 46 | 11 | US-11-004-399-2186 | Sequence 2186, Ap |
| 40 | 34 | 58.6 | 1924 | 8 | US-10-512-386-56 | Sequence 56, Appl |
| 41 | 34 | 58.6 | 3460 | 8 | US-10-505-928-104 | Sequence 104, App |
| 42 | 33 | 56.9 | 36 | 7 | US-09-978-360A-549 | Sequence 549, App |
| 43 | 33 | 56.9 | 108 | 11 | US-11-096-568A-8617 | Sequence 8617, Ap |
| 44 | 33 | 56.9 | 112 | 11 | US-11-096-568A-8616 | Sequence 8616, Ap |
| 45 | 33 | 56.9 | 122 | 11 | US-11-096-568A-8615 | Sequence 8615, Ap |
| 46 | 33 | 56.9 | 140 | 9 | US-10-506-454-455 | Sequence 455, App |
| 47 | 33 | 56.9 | 187 | 9 | US-10-194-487-426 | Sequence 426, App |
| 48 | 33 | 56.9 | 187 | 9 | US-10-195-883-426 | Sequence 426, App |
| 49 | 33 | 56.9 | 187 | 9 | US-10-195-888-426 | Sequence 426, App |
| 50 | 33 | 56.9 | 187 | 9 | US-10-195-889-426 | Sequence 426, App |
| 51 | 33 | 56.9 | 187 | 11 | US-11-264-096-2067 | Sequence 2067, Ap |
| 52 | 33 | 56.9 | 198 | 11 | US-11-096-568A-23873 | Sequence 23873, A |
| 53 | 33 | 56.9 | 227 | 11 | US-11-096-568A-23872 | Sequence 23872, A |
| 54 | 33 | 56.9 | 364 | 9 | US-10-194-487-36 | Sequence 36, Appl |
| 55 | 33 | 56.9 | 364 | 9 | US-10-195-883-36 | Sequence 36, Appl |
| 56 | 33 | 56.9 | 364 | 9 | US-10-195-888-36 | Sequence 36, Appl |
| 57 | 33 | 56.9 | 364 | 9 | US-10-195-889-36 | Sequence 36, Appl |
| 58 | 33 | 56.9 | 364 | 9 | US-10-216-161A-515 | Sequence 515, App |
| 59 | 33 | 56.9 | 407 | 11 | US-11-127-877-56 | Sequence 56, Appl |
| 60 | 33 | 56.9 | 489 | 11 | US-11-096-568A-31950 | Sequence 31950, A |
| 61 | 33 | 56.9 | 520 | 11 | US-11-087-099-323 | Sequence 323, App |
| 62 | 33 | 56.9 | 755 | 11 | US-11-087-099-2677 | Sequence 2677, Ap |
| 63 | 33 | 56.9 | 1311 | 9 | US-10-509-422-5 | Sequence 5, Appli |
| 64 | 32 | 55.2 | 25 | 11 | US-11-119-293-16 | Sequence 16, Appl |
| 65 | 32 | 55.2 | 26 | 11 | US-11-119-293-26 | Sequence 26, Appl |
| 66 | 32 | 55.2 | 107 | 9 | US-10-530-253-37 | Sequence 37, Appl |
| 67 | 32 | 55.2 | 127 | 11 | US-11-072-512-2129 | Sequence 2129, Ap |
| 68 | 32 | 55.2 | 155 | 11 | US-11-240-769-152 | Sequence 152, App |
| 69 | 32 | 55.2 | 155 | 11 | US-11-079-463-7325 | Sequence 7325, Ap |
| 70 | 32 | 55.2 | 207 | 9 | US-10-793-626-1730 | Sequence 1730, Ap |
| 71 | 32 | 55.2 | 237 | 9 | US-10-194-487-222 | Sequence 222, App |
| 72 | 32 | 55.2 | 237 | 9 | US-10-195-883-222 | Sequence 222, App |
| 73 | 32 | 55.2 | 237 | 9 | US-10-195-888-222 | Sequence 222, App |
| 74 | 32 | 55.2 | 237 | 9 | US-10-195-889-222 | Sequence 222, App |
| 75 | 32 | 55.2 | 245 | 9 | US-10-131-826A-214 | Sequence 214, App |
| 76 | 32 | 55.2 | 245 | 9 | US-10-973-115B-214 | Sequence 214, App |
| 77 | 32 | 55.2 | 245 | 9 | US-10-137-873A-214 | Sequence 214, App |
| 78 | 32 | 55.2 | 245 | 9 | US-10-152-370-214 | Sequence 214, App |
| 79 | 32 | 55.2 | 245 | 11 | US-11-290-153-214 | Sequence 214, App |
| 80 | 32 | 55.2 | 315 | 9 | US-10-467-657-1586 | Sequence 1586, Ap |
| 81 | 32 | 55.2 | 345 | 9 | US-10-453-372-758 | Sequence 758, App |
| 82 | 32 | 55.2 | 357 | 9 | US-10-453-372-760 | Sequence 760, App |
| 83 | 32 | 55.2 | 385 | 11 | US-11-079-463-9077 | Sequence 9077, Ap |
| 84 | 32 | 55.2 | 432 | 11 | US-11-079-463-5588 | Sequence 5588, Ap |
| 85 | 32 | 55.2 | 436 | 11 | US-11-116-939-9 | Sequence 9, Appli |
| 86 | 32 | 55.2 | 441 | 9 | US-10-506-454-1265 | Sequence 1265, Ap |
| 87 | 32 | 55.2 | 500 | 11 | US-11-096-568A-27420 | Sequence 27420, A |
| 88 | 32 | 55.2 | 539 | 11 | US-11-096-568A-27419 | Sequence 27419, A |
| 89 | 32 | 55.2 | 543 | 9 | US-10-453-372-756 | Sequence 756, App |
| 90 | 32 | 55.2 | 548 | 9 | US-10-453-372-754 | Sequence 754, App |
| 91 | 32 | 55.2 | 548 | 9 | US-10-453-372-768 | Sequence 768, App |
| 92 | 32 | 55.2 | 555 | 9 | US-10-453-372-764 | Sequence 764, App |
| 93 | 32 | 55.2 | 587 | 11 | US-11-096-568A-27418 | Sequence 27418, A |
| 94 | 32 | 55.2 | 600 | 9 | US-10-194-487-586 | Sequence 586, App |

| | | | | | |
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| 95 | 32 | 55.2 | 600 | 9 | US-10-195-883-586 |
| 96 | 32 | 55.2 | 600 | 9 | US-10-195-888-586 |
| 97 | 32 | 55.2 | 600 | 9 | US-10-195-889-586 |
| 98 | 32 | 55.2 | 745 | 9 | US-10-793-626-1500 |
| 99 | 32 | 55.2 | 766 | 9 | US-10-453-372-752 |
| 100 | 32 | 55.2 | 844 | 9 | US-10-453-372-852 |
| 101 | 32 | 55.2 | 844 | 9 | US-10-453-372-856 |
| 102 | 32 | 55.2 | 1012 | 9 | US-10-511-989-12 |
| 103 | 32 | 55.2 | 1302 | 11 | US-11-090-439-42 |
| 104 | 31.5 | 54.3 | 213 | 11 | US-11-096-568A-30853 |
| 105 | 31.5 | 54.3 | 225 | 11 | US-11-096-568A-30852 |
| 106 | 31.5 | 54.3 | 236 | 11 | US-11-188-298-5351 |
| 107 | 31.5 | 54.3 | 283 | 11 | US-11-096-568A-11537 |
| 108 | 31.5 | 54.3 | 312 | 11 | US-11-096-568A-30851 |
| 109 | 31.5 | 54.3 | 354 | 11 | US-11-096-568A-11536 |
| 110 | 31.5 | 54.3 | 376 | 11 | US-11-096-568A-11535 |
| 111 | 31 | 53.4 | 28 | 11 | US-11-129-741-3574 |
| 112 | 31 | 53.4 | 31 | 11 | US-11-068-783-68 |
| 113 | 31 | 53.4 | 31 | 11 | US-11-068-783-69 |
| 114 | 31 | 53.4 | 43 | 11 | US-11-096-568A-13686 |
| 115 | 31 | 53.4 | 81 | 9 | US-10-467-657-2194 |
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| 120 | 31 | 53.4 | 123 | 11 | US-11-072-512-3934 |
| 121 | 31 | 53.4 | 132 | 9 | US-10-506-454-627 |
| 122 | 31 | 53.4 | 140 | 11 | US-11-079-463-6554 |
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| 125 | 31 | 53.4 | 207 | 11 | US-11-087-099-4220 |
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| 127 | 31 | 53.4 | 256 | 9 | US-10-793-626-2596 |
| 128 | 31 | 53.4 | 261 | 11 | US-11-188-298-2418 |
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| 130 | 31 | 53.4 | 269 | 11 | US-11-188-298-10696 |
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| 137 | 31 | 53.4 | 423 | 11 | US-11-098-686-10135 |
| 138 | 31 | 53.4 | 428 | 9 | US-10-330-773-647 |
| 139 | 31 | 53.4 | 446 | 11 | US-11-112-882-25 |
| 140 | 31 | 53.4 | 446 | 11 | US-11-146-428-52 |
| 141 | 31 | 53.4 | 477 | 11 | US-11-188-298-14300 |
| 142 | 31 | 53.4 | 497 | 11 | US-11-188-298-15272 |
| 143 | 31 | 53.4 | 632 | 9 | US-10-506-454-719 |
| 144 | 31 | 53.4 | 687 | 9 | US-10-821-234-1197 |
| 145 | 31 | 53.4 | 850 | 9 | US-10-455-772-1074 |
| 146 | 31 | 53.4 | 877 | 11 | US-11-087-099-7068 |
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| 149 | 31 | 53.4 | 921 | 9 | US-10-455-772-1080 |
| 150 | 31 | 53.4 | 978 | 9 | US-10-455-772-1072 |
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| 155 | 30.5 | 52.6 | 18 | 11 | US-11-032-794-3 |
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| 157 | 30.5 | 52.6 | 20 | 11 | US-11-000-365-42 |
| 158 | 30.5 | 52.6 | 20 | 11 | US-11-032-794-39 |
| 159 | 30.5 | 52.6 | 20 | 11 | US-11-032-794-42 |
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| 162 | 30.5 | 52.6 | 72 | 11 | US-11-000-365-36 |
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| 167 | 30.5 | 52.6 | 251 | 11 | US-11-188-298-9862 |

Sequence 586, App
Sequence 586, App
Sequence 586, App
Sequence 1500, Ap
Sequence 752, App
Sequence 852, App
Sequence 856, App
Sequence 12, Appl
Sequence 42, Appl
Sequence 30853, A
Sequence 30852, A
Sequence 5351, Ap
Sequence 11537, A
Sequence 30851, A
Sequence 11536, A
Sequence 11535, A
Sequence 3574, Ap
Sequence 68, Appl
Sequence 69, Appl
Sequence 13686, A
Sequence 2194, Ap
Sequence 261, App
Sequence 360, App
Sequence 34, Appl
Sequence 10966, A
Sequence 3934, Ap
Sequence 627, App
Sequence 6554, Ap
Sequence 268, App
Sequence 688, App
Sequence 4220, Ap
Sequence 157, App
Sequence 2596, Ap
Sequence 2418, Ap
Sequence 334, App
Sequence 10696, A
Sequence 1619, Ap
Sequence 11141, A
Sequence 1786, Ap
Sequence 2, Appli
Sequence 10410, A
Sequence 954, App
Sequence 10135, A
Sequence 647, App
Sequence 25, Appl
Sequence 52, Appl
Sequence 14300, A
Sequence 15272, A
Sequence 719, App
Sequence 1197, Ap
Sequence 1074, Ap
Sequence 7068, Ap
Sequence 1078, Ap
Sequence 1076, Ap
Sequence 1080, Ap
Sequence 1072, Ap
Sequence 284, App
Sequence 4, Appli
Sequence 64, Appl
Sequence 3, Appli
Sequence 3, Appli
Sequence 39, Appl
Sequence 42, Appl
Sequence 39, Appl
Sequence 42, Appl
Sequence 2, Appli
Sequence 2, Appli
Sequence 36, Appl
Sequence 36, Appl
Sequence 1305, Ap
Sequence 6, Appli
Sequence 11119, A
Sequence 9862, Ap

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| 203 | 30 | 51.7 | 200 | 11 | US-11-183-261-23 |
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Sequence 5713, Ap
Sequence 6053, Ap
Sequence 12013, A
Sequence 4617, Ap
Sequence 16751, A
Sequence 3342, Ap
Sequence 3131, Ap
Sequence 195, App
Sequence 7, Appli
Sequence 5, Appli
Sequence 4, Appli
Sequence 84, Appl
Sequence 99, Appl
Sequence 8984, Ap
Sequence 28, Appl
Sequence 28, Appl
Sequence 28, Appl
Sequence 28, Appl
Sequence 28, Appl
Sequence 36, Appl
Sequence 13220, A
Sequence 33, Appl
Sequence 8838, Ap
Sequence 538, App
Sequence 13219, A
Sequence 9449, Ap
Sequence 439, App
Sequence 441, App
Sequence 2321, Ap
Sequence 3925, Ap
Sequence 9448, Ap
Sequence 1, Appli
Sequence 30, Appl
Sequence 7766, Ap
Sequence 21350, A
Sequence 23, Appl
Sequence 8284, Ap
Sequence 9986, Ap
Sequence 27, Appl
Sequence 3924, Ap
Sequence 6616, Ap
Sequence 26, Appl
Sequence 35, Appl
Sequence 159, App
Sequence 22, Appl
Sequence 6003, Ap
Sequence 25, Appl
Sequence 3627, Ap
Sequence 766, App
Sequence 10501, A
Sequence 15327, A
Sequence 10140, A
Sequence 15326, A
Sequence 79, Appl
Sequence 8, Appli
Sequence 9240, Ap
Sequence 12614, A
Sequence 14, Appl
Sequence 19812, A
Sequence 21532, A
Sequence 56, Appl
Sequence 6849, Ap
Sequence 559, App
Sequence 13966, A
Sequence 21326, A
Sequence 32, Appl
Sequence 16425, A
Sequence 1996, Ap
Sequence 9945, Ap
Sequence 3, Appli
Sequence 19108, A
Sequence 29, Appl
Sequence 21651, A

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| 265 | 30 | 51.7 | 532 | 11 | US-11-188-298-18364 | Sequence 18364, A |
| 266 | 30 | 51.7 | 533 | 11 | US-11-188-298-6838 | Sequence 6838, Ap |
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| 269 | 30 | 51.7 | 571 | 11 | US-11-079-463-8124 | Sequence 8124, Ap |
| 270 | 30 | 51.7 | 673 | 11 | US-11-124-368A-257 | Sequence 257, App |
| 271 | 30 | 51.7 | 694 | 11 | US-11-087-099-566 | Sequence 566, App |
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| 277 | 30 | 51.7 | 859 | 7 | US-09-720-086-6 | Sequence 6, Appli |
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| 289 | 30 | 51.7 | 2723 | 11 | US-11-129-741-3318 | Sequence 3318, Ap |
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| 292 | 29.5 | 50.9 | 27 | 10 | US-11-297-160-23 | Sequence 23, Appl |
| 293 | 29.5 | 50.9 | 34 | 10 | US-11-297-160-10 | Sequence 10, Appl |
| 294 | 29.5 | 50.9 | 34 | 10 | US-11-297-160-11 | Sequence 11, Appl |
| 295 | 29.5 | 50.9 | 36 | 10 | US-11-297-160-31 | Sequence 31, Appl |
| 296 | 29.5 | 50.9 | 38 | 10 | US-11-297-160-17 | Sequence 17, Appl |
| 297 | 29.5 | 50.9 | 41 | 10 | US-11-297-160-32 | Sequence 32, Appl |
| 298 | 29.5 | 50.9 | 46 | 10 | US-11-297-160-16 | Sequence 16, Appl |
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| 313 | 29 | 50.0 | 14 | 11 | US-11-198-847-9 | Sequence 9, Appli |
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| 315 | 29 | 50.0 | 25 | 11 | US-11-119-293-17 | Sequence 17, Appl |
| 316 | 29 | 50.0 | 26 | 9 | US-10-895-064-419 | Sequence 419, App |
| 317 | 29 | 50.0 | 26 | 11 | US-11-129-741-419 | Sequence 419, App |
| 318 | 29 | 50.0 | 27 | 11 | US-11-198-847-147 | Sequence 147, App |
| 319 | 29 | 50.0 | 33 | 11 | US-11-121-301-33 | Sequence 33, Appl |
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| 322 | 29 | 50.0 | 93 | 11 | US-11-079-463-6977 | Sequence 6977, Ap |
| 323 | 29 | 50.0 | 95 | 11 | US-11-264-096-766 | Sequence 766, App |
| 324 | 29 | 50.0 | 102 | 10 | US-11-301-554-1675 | Sequence 1675, Ap |
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| 326 | 29 | 50.0 | 125 | 11 | US-11-188-298-20310 | Sequence 20310, A |
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| 337 | 29 | 50.0 | 212 | 11 | US-11-098-686-10136 | Sequence 10136, A |
| 338 | 29 | 50.0 | 213 | 11 | US-11-072-512-2722 | Sequence 2722, Ap |
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| 340 | 29 | 50.0 | 223 | 11 | US-11-172-740-2128 | Sequence 2128, Ap |
| 341 | 29 | 50.0 | 223 | 11 | US-11-172-740-2129 | Sequence 2129, Ap |
| 342 | 29 | 50.0 | 223 | 11 | US-11-172-740-2363 | Sequence 2363, Ap |
| 343 | 29 | 50.0 | 223 | 11 | US-11-172-740-2364 | Sequence 2364, Ap |
| 344 | 29 | 50.0 | 232 | 11 | US-11-156-516-39 | Sequence 39, Appl |
| 345 | 29 | 50.0 | 262 | 11 | US-11-072-512-2637 | Sequence 2637, Ap |
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| 347 | 29 | 50.0 | 274 | 11 | US-11-096-568A-7451 | Sequence 7451, Ap |
| 348 | 29 | 50.0 | 275 | 11 | US-11-188-298-17357 | Sequence 17357, A |
| 349 | 29 | 50.0 | 275 | 11 | US-11-188-298-22510 | Sequence 22510, A |
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| 357 | 29 | 50.0 | 306 | 9 | US-10-644-807-347 | Sequence 347, App |
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| 360 | 29 | 50.0 | 345 | 9 | US-10-131-826A-286 | Sequence 286, App |
| 361 | 29 | 50.0 | 345 | 9 | US-10-921-793-72 | Sequence 72, Appl |
| 362 | 29 | 50.0 | 345 | 9 | US-10-973-115B-286 | Sequence 286, App |
| 363 | 29 | 50.0 | 345 | 9 | US-10-931-198-72 | Sequence 72, Appl |
| 364 | 29 | 50.0 | 345 | 9 | US-10-942-042-72 | Sequence 72, Appl |
| 365 | 29 | 50.0 | 345 | 9 | US-10-216-161A-488 | Sequence 488, App |
| 366 | 29 | 50.0 | 345 | 9 | US-10-137-873A-286 | Sequence 286, App |
| 367 | 29 | 50.0 | 345 | 9 | US-10-152-370-286 | Sequence 286, App |
| 368 | 29 | 50.0 | 345 | 11 | US-11-073-605-6 | Sequence 6, Appli |
| 369 | 29 | 50.0 | 345 | 11 | US-11-064-774A-149 | Sequence 149, App |
| 370 | 29 | 50.0 | 345 | 11 | US-11-075-400-12 | Sequence 12, Appl |
| 371 | 29 | 50.0 | 345 | 11 | US-11-076-427A-22 | Sequence 22, Appl |
| 372 | 29 | 50.0 | 345 | 11 | US-11-072-175-191 | Sequence 191, App |
| 373 | 29 | 50.0 | 345 | 11 | US-11-075-047A-103 | Sequence 103, App |
| 374 | 29 | 50.0 | 345 | 11 | US-11-140-284-32 | Sequence 32, Appl |
| 375 | 29 | 50.0 | 345 | 11 | US-11-290-153-286 | Sequence 286, App |
| 376 | 29 | 50.0 | 347 | 11 | US-11-087-099-4946 | Sequence 4946, Ap |
| 377 | 29 | 50.0 | 352 | 11 | US-11-096-568A-7450 | Sequence 7450, Ap |
| 378 | 29 | 50.0 | 353 | 9 | US-10-793-626-634 | Sequence 634, App |
| 379 | 29 | 50.0 | 353 | 11 | US-11-096-568A-23016 | Sequence 23016, A |
| 380 | 29 | 50.0 | 363 | 11 | US-11-096-568A-23015 | Sequence 23015, A |
| 381 | 29 | 50.0 | 367 | 11 | US-11-096-568A-13389 | Sequence 13389, A |
| 382 | 29 | 50.0 | 369 | 11 | US-11-096-568A-23014 | Sequence 23014, A |
| 383 | 29 | 50.0 | 374 | 11 | US-11-087-099-9786 | Sequence 9786, Ap |
| 384 | 29 | 50.0 | 375 | 11 | US-11-079-463-7927 | Sequence 7927, Ap |
| 385 | 29 | 50.0 | 382 | 11 | US-11-096-568A-12912 | Sequence 12912, A |
| 386 | 29 | 50.0 | 388 | 11 | US-11-096-568A-13388 | Sequence 13388, A |

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| 387 | 29 | 50.0 | 397 | 11 | US-11-096-568A-13387 | Sequence 13387, A |
| 388 | 29 | 50.0 | 411 | 11 | US-11-188-298-8398 | Sequence 8398, Ap |
| 389 | 29 | 50.0 | 422 | 11 | US-11-096-568A-30165 | Sequence 30165, A |
| 390 | 29 | 50.0 | 424 | 11 | US-11-090-439-5 | Sequence 5, Appli |
| 391 | 29 | 50.0 | 429 | 9 | US-10-878-556A-17 | Sequence 17, Appl |
| 392 | 29 | 50.0 | 436 | 11 | US-11-098-686-10553 | Sequence 10553, A |
| 393 | 29 | 50.0 | 446 | 11 | US-11-096-568A-2026 | Sequence 2026, Ap |
| 394 | 29 | 50.0 | 450 | 11 | US-11-079-463-8877 | Sequence 8877, Ap |
| 395 | 29 | 50.0 | 453 | 11 | US-11-096-568A-2025 | Sequence 2025, Ap |
| 396 | 29 | 50.0 | 453 | 11 | US-11-264-096-759 | Sequence 759, App |
| 397 | 29 | 50.0 | 453 | 11 | US-11-264-096-2170 | Sequence 2170, Ap |
| 398 | 29 | 50.0 | 457 | 11 | US-11-098-686-11066 | Sequence 11066, A |
| 399 | 29 | 50.0 | 460 | 11 | US-11-096-568A-6862 | Sequence 6862, Ap |
| 400 | 29 | 50.0 | 461 | 11 | US-11-264-096-1565 | Sequence 1565, Ap |
| 401 | 29 | 50.0 | 465 | 11 | US-11-169-041-173 | Sequence 173, App |
| 402 | 29 | 50.0 | 466 | 11 | US-11-188-298-2639 | Sequence 2639, Ap |
| 403 | 29 | 50.0 | 471 | 11 | US-11-188-298-2071 | Sequence 2071, Ap |
| 404 | 29 | 50.0 | 476 | 11 | US-11-096-568A-13491 | Sequence 13491, A |
| 405 | 29 | 50.0 | 484 | 11 | US-11-146-428-108 | Sequence 108, App |
| 406 | 29 | 50.0 | 486 | 9 | US-10-467-962B-59 | Sequence 59, Appl |
| 407 | 29 | 50.0 | 491 | 11 | US-11-087-099-252 | Sequence 252, App |
| 408 | 29 | 50.0 | 491 | 11 | US-11-087-099-8792 | Sequence 8792, Ap |
| 409 | 29 | 50.0 | 491 | 11 | US-11-087-099-10555 | Sequence 10555, A |
| 410 | 29 | 50.0 | 491 | 11 | US-11-096-568A-13490 | Sequence 13490, A |
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| 412 | 29 | 50.0 | 494 | 11 | US-11-087-099-5764 | Sequence 5764, Ap |
| 413 | 29 | 50.0 | 494 | 11 | US-11-087-099-9605 | Sequence 9605, Ap |
| 414 | 29 | 50.0 | 495 | 11 | US-11-188-298-17012 | Sequence 17012, A |
| 415 | 29 | 50.0 | 497 | 11 | US-11-188-298-10752 | Sequence 10752, A |
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| 417 | 29 | 50.0 | 505 | 11 | US-11-188-298-5684 | Sequence 5684, Ap |
| 418 | 29 | 50.0 | 506 | 11 | US-11-188-298-2178 | Sequence 2178, Ap |
| 419 | 29 | 50.0 | 514 | 11 | US-11-188-298-11354 | Sequence 11354, A |
| 420 | 29 | 50.0 | 514 | 11 | US-11-188-298-14827 | Sequence 14827, A |
| 421 | 29 | 50.0 | 523 | 11 | US-11-188-298-19215 | Sequence 19215, A |
| 422 | 29 | 50.0 | 523 | 11 | US-11-188-298-21955 | Sequence 21955, A |
| 423 | 29 | 50.0 | 542 | 11 | US-11-087-099-8500 | Sequence 8500, Ap |
| 424 | 29 | 50.0 | 548 | 11 | US-11-096-568A-2024 | Sequence 2024, Ap |
| 425 | 29 | 50.0 | 553 | 11 | US-11-079-463-5269 | Sequence 5269, Ap |
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| 428 | 29 | 50.0 | 615 | 11 | US-11-087-099-1607 | Sequence 1607, Ap |
| 429 | 29 | 50.0 | 619 | 11 | US-11-205-109-37 | Sequence 37, Appl |
| 430 | 29 | 50.0 | 620 | 8 | US-10-505-928-284 | Sequence 284, App |
| 431 | 29 | 50.0 | 622 | 9 | US-10-055-877-239 | Sequence 239, App |
| 432 | 29 | 50.0 | 635 | 9 | US-10-055-877-67 | Sequence 67, Appl |
| 433 | 29 | 50.0 | 651 | 9 | US-10-770-726-67 | Sequence 67, Appl |
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| 435 | 29 | 50.0 | 680 | 11 | US-11-188-298-720 | Sequence 720, App |
| 436 | 29 | 50.0 | 680 | 11 | US-11-188-298-7263 | Sequence 7263, Ap |
| 437 | 29 | 50.0 | 683 | 9 | US-10-330-773-346 | Sequence 346, App |
| 438 | 29 | 50.0 | 694 | 11 | US-11-087-099-4457 | Sequence 4457, Ap |
| 439 | 29 | 50.0 | 694 | 11 | US-11-087-099-7074 | Sequence 7074, Ap |
| 440 | 29 | 50.0 | 699 | 11 | US-11-072-512-2814 | Sequence 2814, Ap |
| 441 | 29 | 50.0 | 701 | 9 | US-10-055-877-65 | Sequence 65, Appl |
| 442 | 29 | 50.0 | 702 | 9 | US-10-330-773-341 | Sequence 341, App |
| 443 | 29 | 50.0 | 734 | 9 | US-10-995-561-770 | Sequence 770, App |
| 444 | 29 | 50.0 | 737 | 11 | US-11-210-316-8 | Sequence 8, Appli |
| 445 | 29 | 50.0 | 737 | 11 | US-11-152-366-28 | Sequence 28, Appl |
| 446 | 29 | 50.0 | 758 | 11 | US-11-245-400-30 | Sequence 30, Appl |
| 447 | 29 | 50.0 | 790 | 11 | US-11-096-568A-29191 | Sequence 29191, A |
| 448 | 29 | 50.0 | 807 | 11 | US-11-188-298-492 | Sequence 492, App |
| 449 | 29 | 50.0 | 810 | 11 | US-11-192-813-2 | Sequence 2, Appli |
| 450 | 29 | 50.0 | 810 | 11 | US-11-192-813-6 | Sequence 6, Appli |
| 451 | 29 | 50.0 | 864 | 9 | US-10-499-246-2 | Sequence 2, Appli |
| 452 | 29 | 50.0 | 884 | 11 | US-11-098-686-11426 | Sequence 11426, A |
| 453 | 29 | 50.0 | 885 | 9 | US-10-055-877-240 | Sequence 240, App |
| 454 | 29 | 50.0 | 885 | 9 | US-10-055-877-241 | Sequence 241, App |
| 455 | 29 | 50.0 | 1075 | 11 | US-11-089-551A-23 | Sequence 23, Appl |
| 456 | 29 | 50.0 | 1167 | 11 | US-11-096-568A-28971 | Sequence 28971, A |
| 457 | 29 | 50.0 | 1169 | 11 | US-11-096-568A-31176 | Sequence 31176, A |
| 458 | 29 | 50.0 | 1190 | 11 | US-11-043-889-20 | Sequence 20, Appl |
| 459 | 29 | 50.0 | 1191 | 11 | US-11-188-298-20587 | Sequence 20587, A |
| 460 | 29 | 50.0 | 1216 | 11 | US-11-096-568A-28970 | Sequence 28970, A |
| 461 | 29 | 50.0 | 1218 | 11 | US-11-096-568A-31175 | Sequence 31175, A |
| 462 | 29 | 50.0 | 1251 | 11 | US-11-043-889-22 | Sequence 22, Appl |
| 463 | 29 | 50.0 | 1431 | 9 | US-10-501-035-220 | Sequence 220, App |
| 464 | 29 | 50.0 | 2504 | 9 | US-10-647-956A-8 | Sequence 8, Appli |
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| 467 | 29 | 50.0 | 4473 | 9 | US-10-895-064-460 | Sequence 460, App |
| 468 | 29 | 50.0 | 4473 | 11 | US-11-129-741-460 | Sequence 460, App |
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| 471 | 28.5 | 49.1 | 44 | 11 | US-11-129-741-341 | Sequence 341, App |
| 472 | 28.5 | 49.1 | 44 | 11 | US-11-129-741-3272 | Sequence 3272, Ap |
| 473 | 28.5 | 49.1 | 90 | 11 | US-11-188-298-11388 | Sequence 11388, A |
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| 476 | 28.5 | 49.1 | 746 | 9 | US-10-828-831-5 | Sequence 5, Appli |
| 477 | 28.5 | 49.1 | 746 | 9 | US-10-828-831-7 | Sequence 7, Appli |
| 478 | 28.5 | 49.1 | 1041 | 9 | US-10-828-831-9 | Sequence 9, Appli |
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| 480 | 28 | 48.3 | 9 | 11 | US-11-097-864-391 | Sequence 391, App |
| 481 | 28 | 48.3 | 9 | 11 | US-11-097-912-391 | Sequence 391, App |
| 482 | 28 | 48.3 | 13 | 11 | US-11-198-847-275 | Sequence 275, App |
| 483 | 28 | 48.3 | 13 | 11 | US-11-116-144-69 | Sequence 69, Appl |
| 484 | 28 | 48.3 | 13 | 11 | US-11-220-372-69 | Sequence 69, Appl |
| 485 | 28 | 48.3 | 14 | 11 | US-11-198-847-228 | Sequence 228, App |
| 486 | 28 | 48.3 | 14 | 11 | US-11-198-847-278 | Sequence 278, App |
| 487 | 28 | 48.3 | 15 | 9 | US-10-530-061-1910 | Sequence 1910, Ap |
| 488 | 28 | 48.3 | 16 | 9 | US-10-530-061-1911 | Sequence 1911, Ap |
| 489 | 28 | 48.3 | 16 | 11 | US-11-004-399-1541 | Sequence 1541, Ap |
| 490 | 28 | 48.3 | 24 | 11 | US-11-119-293-22 | Sequence 22, Appl |
| 491 | 28 | 48.3 | 25 | 11 | US-11-119-293-29 | Sequence 29, Appl |
| 492 | 28 | 48.3 | 25 | 11 | US-11-119-293-30 | Sequence 30, Appl |
| 493 | 28 | 48.3 | 25 | 11 | US-11-119-293-33 | Sequence 33, Appl |
| 494 | 28 | 48.3 | 29 | 11 | US-11-198-847-6 | Sequence 6, Appli |
| 495 | 28 | 48.3 | 30 | 11 | US-11-174-996A-17 | Sequence 17, Appl |
| 496 | 28 | 48.3 | 30 | 11 | US-11-174-996A-18 | Sequence 18, Appl |
| 497 | 28 | 48.3 | 30 | 11 | US-11-174-996A-21 | Sequence 21, Appl |
| 498 | 28 | 48.3 | 30 | 11 | US-11-174-996A-47 | Sequence 47, Appl |
| 499 | 28 | 48.3 | 51 | 11 | US-11-264-096-2059 | Sequence 2059, Ap |
| 500 | 28 | 48.3 | 53 | 9 | US-10-895-064-2857 | Sequence 2857, Ap |
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| 502 | 28 | 48.3 | 53 | 11 | US-11-129-741-2857 | Sequence 2857, Ap |
| 503 | 28 | 48.3 | 56 | 9 | US-10-921-415-3 | Sequence 3, Appli |
| 504 | 28 | 48.3 | 57 | 11 | US-11-000-463-424 | Sequence 424, App |
| 505 | 28 | 48.3 | 64 | 11 | US-11-174-996A-89 | Sequence 89, Appl |
| 506 | 28 | 48.3 | 67 | 11 | US-11-079-463-6163 | Sequence 6163, Ap |
| 507 | 28 | 48.3 | 75 | 11 | US-11-174-996A-91 | Sequence 91, Appl |
| 508 | 28 | 48.3 | 75 | 11 | US-11-174-996A-97 | Sequence 97, Appl |
| 509 | 28 | 48.3 | 78 | 9 | US-10-475-075-191 | Sequence 191, App |
| 510 | 28 | 48.3 | 78 | 9 | US-10-475-075-475 | Sequence 475, App |
| 511 | 28 | 48.3 | 94 | 11 | US-11-198-847-194 | Sequence 194, App |
| 512 | 28 | 48.3 | 95 | 7 | US-09-978-360A-591 | Sequence 591, App |
| 513 | 28 | 48.3 | 95 | 11 | US-11-198-847-227 | Sequence 227, App |
| 514 | 28 | 48.3 | 101 | 9 | US-10-467-657-7350 | Sequence 7350, Ap |
| 515 | 28 | 48.3 | 114 | 9 | US-10-745-586-168 | Sequence 168, App |
| 516 | 28 | 48.3 | 114 | 11 | US-11-096-568A-14003 | Sequence 14003, A |
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| 519 | 28 | 48.3 | 134 | 11 | US-11-084-591-2 | Sequence 2, Appli |
| 520 | 28 | 48.3 | 148 | 11 | US-11-072-512-2902 | Sequence 2902, Ap |
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| 523 | 28 | 48.3 | 159 | 11 | US-11-264-728-46 | Sequence 46, Appl |
| 524 | 28 | 48.3 | 161 | 9 | US-10-511-538-251 | Sequence 251, App |
| 525 | 28 | 48.3 | 166 | 11 | US-11-176-830-1296 | Sequence 1296, Ap |
| 526 | 28 | 48.3 | 166 | 11 | US-11-196-067-492 | Sequence 492, App |
| 527 | 28 | 48.3 | 167 | 11 | US-11-079-463-8149 | Sequence 8149, Ap |
| 528 | 28 | 48.3 | 168 | 11 | US-11-096-568A-33516 | Sequence 33516, A |
| 529 | 28 | 48.3 | 169 | 11 | US-11-098-686-93 | Sequence 93, Appl |
| 530 | 28 | 48.3 | 173 | 11 | US-11-096-568A-17736 | Sequence 17736, A |
| 531 | 28 | 48.3 | 175 | 11 | US-11-188-298-9926 | Sequence 9926, Ap |
| 532 | 28 | 48.3 | 180 | 11 | US-11-079-463-8262 | Sequence 8262, Ap |

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| 534 | 28 | 48.3 | 192 | 11 | US-11-096-568A-21513 | Sequence 21513, A |
| 535 | 28 | 48.3 | 198 | 11 | US-11-096-568A-21512 | Sequence 21512, A |
| 536 | 28 | 48.3 | 202 | 11 | US-11-188-298-8442 | Sequence 8442, Ap |
| 537 | 28 | 48.3 | 209 | 9 | US-10-194-487-470 | Sequence 470, App |
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| 539 | 28 | 48.3 | 209 | 9 | US-10-195-888-470 | Sequence 470, App |
| 540 | 28 | 48.3 | 209 | 9 | US-10-195-889-470 | Sequence 470, App |
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| 546 | 28 | 48.3 | 237 | 9 | US-10-644-807-401 | Sequence 401, App |
| 547 | 28 | 48.3 | 243 | 11 | US-11-096-568A-32423 | Sequence 32423, A |
| 548 | 28 | 48.3 | 245 | 9 | US-10-644-807-215 | Sequence 215, App |
| 549 | 28 | 48.3 | 245 | 9 | US-10-644-807-305 | Sequence 305, App |
| 550 | 28 | 48.3 | 249 | 11 | US-11-072-512-2058 | Sequence 2058, Ap |
| 551 | 28 | 48.3 | 251 | 11 | US-11-096-568A-5087 | Sequence 5087, Ap |
| 552 | 28 | 48.3 | 256 | 11 | US-11-096-568A-32422 | Sequence 32422, A |
| 553 | 28 | 48.3 | 257 | 11 | US-11-096-568A-28419 | Sequence 28419, A |
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| 557 | 28 | 48.3 | 265 | 11 | US-11-264-096-1174 | Sequence 1174, Ap |
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| 560 | 28 | 48.3 | 273 | 9 | US-10-194-487-462 | Sequence 462, App |
| 561 | 28 | 48.3 | 273 | 9 | US-10-195-883-462 | Sequence 462, App |
| 562 | 28 | 48.3 | 273 | 9 | US-10-195-888-462 | Sequence 462, App |
| 563 | 28 | 48.3 | 273 | 9 | US-10-195-889-462 | Sequence 462, App |
| 564 | 28 | 48.3 | 274 | 8 | US-10-370-959-83 | Sequence 83, Appl |
| 565 | 28 | 48.3 | 279 | 9 | US-10-506-454-1425 | Sequence 1425, Ap |
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| 570 | 28 | 48.3 | 310 | 11 | US-11-087-099-3184 | Sequence 3184, Ap |
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| 572 | 28 | 48.3 | 314 | 11 | US-11-087-099-1398 | Sequence 1398, Ap |
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| 574 | 28 | 48.3 | 317 | 11 | US-11-096-568A-22432 | Sequence 22432, A |
| 575 | 28 | 48.3 | 321 | 11 | US-11-096-568A-22431 | Sequence 22431, A |
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| 581 | 28 | 48.3 | 352 | 9 | US-10-219-062-216 | Sequence 216, App |
| 582 | 28 | 48.3 | 352 | 9 | US-10-219-064-216 | Sequence 216, App |
| 583 | 28 | 48.3 | 352 | 9 | US-10-233-134-216 | Sequence 216, App |
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| 585 | 28 | 48.3 | 358 | 11 | US-11-129-143-111 | Sequence 111, App |
| 586 | 28 | 48.3 | 360 | 11 | US-11-079-463-8569 | Sequence 8569, Ap |
| 587 | 28 | 48.3 | 365 | 8 | US-10-505-928-148 | Sequence 148, App |
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| 596 | 28 | 48.3 | 392 | 11 | US-11-087-099-9668 | Sequence 9668, Ap |
| 597 | 28 | 48.3 | 392 | 11 | US-11-087-099-11929 | Sequence 11929, A |
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| 601 | 28 | 48.3 | 396 | 11 | US-11-188-298-6859 | Sequence 6859, Ap |
| 602 | 28 | 48.3 | 398 | 11 | US-11-098-686-10267 | Sequence 10267, A |
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| 606 | 28 | 48.3 | 411 | 11 | US-11-221-281-3 | Sequence 3, Appli |
| 607 | 28 | 48.3 | 411 | 11 | US-11-280-654-4 | Sequence 4, Appli |
| 608 | 28 | 48.3 | 411 | 11 | US-11-297-327-1 | Sequence 1, Appli |
| 609 | 28 | 48.3 | 411 | 11 | US-11-297-448-1 | Sequence 1, Appli |
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| 611 | 28 | 48.3 | 420 | 11 | US-11-188-298-13168 | Sequence 13168, A |
| 612 | 28 | 48.3 | 420 | 11 | US-11-188-298-15666 | Sequence 15666, A |
| 613 | 28 | 48.3 | 425 | 11 | US-11-096-568A-27574 | Sequence 27574, A |
| 614 | 28 | 48.3 | 432 | 11 | US-11-188-298-508 | Sequence 508, App |
| 615 | 28 | 48.3 | 433 | 9 | US-10-506-454-1525 | Sequence 1525, Ap |
| 616 | 28 | 48.3 | 433 | 11 | US-11-098-686-11230 | Sequence 11230, A |
| 617 | 28 | 48.3 | 434 | 9 | US-10-506-454-259 | Sequence 259, App |
| 618 | 28 | 48.3 | 437 | 11 | US-11-188-298-9030 | Sequence 9030, Ap |
| 619 | 28 | 48.3 | 439 | 11 | US-11-087-099-2654 | Sequence 2654, Ap |
| 620 | 28 | 48.3 | 440 | 10 | US-11-254-182-49 | Sequence 49, Appl |
| 621 | 28 | 48.3 | 440 | 11 | US-11-280-654-2 | Sequence 2, Appli |
| 622 | 28 | 48.3 | 442 | 11 | US-11-087-099-3716 | Sequence 3716, Ap |
| 623 | 28 | 48.3 | 443 | 11 | US-11-188-298-10912 | Sequence 10912, A |
| 624 | 28 | 48.3 | 446 | 11 | US-11-087-099-3804 | Sequence 3804, Ap |
| 625 | 28 | 48.3 | 450 | 11 | US-11-087-099-4313 | Sequence 4313, Ap |
| 626 | 28 | 48.3 | 450 | 11 | US-11-087-099-6129 | Sequence 6129, Ap |
| 627 | 28 | 48.3 | 454 | 11 | US-11-096-568A-22430 | Sequence 22430, A |
| 628 | 28 | 48.3 | 454 | 11 | US-11-096-568A-27573 | Sequence 27573, A |
| 629 | 28 | 48.3 | 457 | 11 | US-11-087-099-9561 | Sequence 9561, Ap |
| 630 | 28 | 48.3 | 458 | 9 | US-10-931-626-38 | Sequence 38, Appl |
| 631 | 28 | 48.3 | 462 | 11 | US-11-045-004-531 | Sequence 531, App |
| 632 | 28 | 48.3 | 464 | 9 | US-10-689-742-164 | Sequence 164, App |
| 633 | 28 | 48.3 | 464 | 11 | US-11-045-004-2422 | Sequence 2422, Ap |
| 634 | 28 | 48.3 | 467 | 9 | US-10-511-989-175 | Sequence 175, App |
| 635 | 28 | 48.3 | 467 | 11 | US-11-045-004-1394 | Sequence 1394, Ap |
| 636 | 28 | 48.3 | 469 | 11 | US-11-087-099-2731 | Sequence 2731, Ap |
| 637 | 28 | 48.3 | 470 | 11 | US-11-096-568A-23556 | Sequence 23556, A |
| 638 | 28 | 48.3 | 470 | 11 | US-11-188-298-2405 | Sequence 2405, Ap |
| 639 | 28 | 48.3 | 470 | 11 | US-11-188-298-3798 | Sequence 3798, Ap |
| 640 | 28 | 48.3 | 471 | 11 | US-11-079-463-9442 | Sequence 9442, Ap |
| 641 | 28 | 48.3 | 471 | 11 | US-11-188-298-12350 | Sequence 12350, A |
| 642 | 28 | 48.3 | 472 | 9 | US-10-511-989-168 | Sequence 168, App |
| 643 | 28 | 48.3 | 476 | 11 | US-11-188-298-14178 | Sequence 14178, A |
| 644 | 28 | 48.3 | 498 | 11 | US-11-051-720-1355 | Sequence 1355, Ap |
| 645 | 28 | 48.3 | 502 | 11 | US-11-098-686-10506 | Sequence 10506, A |
| 646 | 28 | 48.3 | 505 | 11 | US-11-051-720-1357 | Sequence 1357, Ap |
| 647 | 28 | 48.3 | 512 | 9 | US-10-517-939-374 | Sequence 374, App |
| 648 | 28 | 48.3 | 516 | 11 | US-11-072-512-2033 | Sequence 2033, Ap |
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| 650 | 28 | 48.3 | 519 | 11 | US-11-051-720-1350 | Sequence 1350, Ap |
| 651 | 28 | 48.3 | 540 | 11 | US-11-188-298-9679 | Sequence 9679, Ap |
| 652 | 28 | 48.3 | 541 | 11 | US-11-051-720-1351 | Sequence 1351, Ap |
| 653 | 28 | 48.3 | 544 | 11 | US-11-051-720-1352 | Sequence 1352, Ap |
| 654 | 28 | 48.3 | 547 | 11 | US-11-079-463-9820 | Sequence 9820, Ap |
| 655 | 28 | 48.3 | 559 | 11 | US-11-096-568A-27572 | Sequence 27572, A |
| 656 | 28 | 48.3 | 560 | 11 | US-11-087-099-3291 | Sequence 3291, Ap |
| 657 | 28 | 48.3 | 560 | 11 | US-11-188-298-14097 | Sequence 14097, A |
| 658 | 28 | 48.3 | 565 | 9 | US-10-455-772-448 | Sequence 448, App |
| 659 | 28 | 48.3 | 567 | 9 | US-10-455-772-456 | Sequence 456, App |
| 660 | 28 | 48.3 | 568 | 9 | US-10-455-772-452 | Sequence 452, App |
| 661 | 28 | 48.3 | 581 | 11 | US-11-087-099-8172 | Sequence 8172, Ap |
| 662 | 28 | 48.3 | 582 | 8 | US-10-505-928-813 | Sequence 813, App |
| 663 | 28 | 48.3 | 582 | 11 | US-11-090-439-58 | Sequence 58, Appl |
| 664 | 28 | 48.3 | 582 | 11 | US-11-169-041-130 | Sequence 130, App |
| 665 | 28 | 48.3 | 582 | 11 | US-11-200-822-2 | Sequence 2, Appli |
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| 667 | 28 | 48.3 | 597 | 11 | US-11-051-720-1354 | Sequence 1354, Ap |
| 668 | 28 | 48.3 | 605 | 11 | US-11-046-653-3 | Sequence 3, Appli |
| 669 | 28 | 48.3 | 612 | 9 | US-10-467-657-764 | Sequence 764, App |
| 670 | 28 | 48.3 | 617 | 11 | US-11-219-282-14 | Sequence 14, Appl |
| 671 | 28 | 48.3 | 619 | 11 | US-11-051-720-1353 | Sequence 1353, Ap |
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| 673 | 28 | 48.3 | 633 | 9 | US-10-943-015-10 | Sequence 10, Appl |
| 674 | 28 | 48.3 | 648 | 11 | US-11-127-877-72 | Sequence 72, Appl |
| 675 | 28 | 48.3 | 650 | 11 | US-11-051-720-1439 | Sequence 1439, Ap |
| 676 | 28 | 48.3 | 670 | 9 | US-10-455-772-446 | Sequence 446, App |
| 677 | 28 | 48.3 | 686 | 11 | US-11-087-099-9524 | Sequence 9524, Ap |
| 678 | 28 | 48.3 | 694 | 11 | US-11-079-463-5292 | Sequence 5292, Ap |

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| 679 | 28 | 48.3 | 701 | 11 | US-11-188-298-20373 | Sequence 20373, A |
| 680 | 28 | 48.3 | 710 | 11 | US-11-045-004-818 | Sequence 818, App |
| 681 | 28 | 48.3 | 712 | 9 | US-10-455-772-450 | Sequence 450, App |
| 682 | 28 | 48.3 | 717 | 11 | US-11-188-298-16498 | Sequence 16498, A |
| 683 | 28 | 48.3 | 738 | 11 | US-11-188-298-1583 | Sequence 1583, Ap |
| 684 | 28 | 48.3 | 751 | 11 | US-11-087-099-7226 | Sequence 7226, Ap |
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| 686 | 28 | 48.3 | 773 | 11 | US-11-188-298-18509 | Sequence 18509, A |
| 687 | 28 | 48.3 | 793 | 11 | US-11-188-298-11205 | Sequence 11205, A |
| 688 | 28 | 48.3 | 804 | 11 | US-11-098-686-10592 | Sequence 10592, A |
| 689 | 28 | 48.3 | 811 | 9 | US-10-194-487-414 | Sequence 414, App |
| 690 | 28 | 48.3 | 811 | 9 | US-10-195-883-414 | Sequence 414, App |
| 691 | 28 | 48.3 | 811 | 9 | US-10-195-888-414 | Sequence 414, App |
| 692 | 28 | 48.3 | 811 | 9 | US-10-195-889-414 | Sequence 414, App |
| 693 | 28 | 48.3 | 811 | 11 | US-11-185-567-4 | Sequence 4, Appli |
| 694 | 28 | 48.3 | 811 | 11 | US-11-229-308-1 | Sequence 1, Appli |
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| 698 | 28 | 48.3 | 871 | 11 | US-11-097-864-765 | Sequence 765, App |
| 699 | 28 | 48.3 | 871 | 11 | US-11-097-912-765 | Sequence 765, App |
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| 701 | 28 | 48.3 | 875 | 9 | US-10-859-643-745 | Sequence 745, App |
| 702 | 28 | 48.3 | 875 | 9 | US-10-859-643-747 | Sequence 747, App |
| 703 | 28 | 48.3 | 875 | 9 | US-10-859-643-748 | Sequence 748, App |
| 704 | 28 | 48.3 | 875 | 9 | US-10-859-643-751 | Sequence 751, App |
| 705 | 28 | 48.3 | 875 | 11 | US-11-097-864-743 | Sequence 743, App |
| 706 | 28 | 48.3 | 875 | 11 | US-11-097-864-745 | Sequence 745, App |
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| 712 | 28 | 48.3 | 875 | 11 | US-11-097-912-747 | Sequence 747, App |
| 713 | 28 | 48.3 | 875 | 11 | US-11-097-912-748 | Sequence 748, App |
| 714 | 28 | 48.3 | 875 | 11 | US-11-097-912-751 | Sequence 751, App |
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| 716 | 28 | 48.3 | 921 | 9 | US-10-455-772-868 | Sequence 868, App |
| 717 | 28 | 48.3 | 925 | 9 | US-10-455-772-858 | Sequence 858, App |
| 718 | 28 | 48.3 | 926 | 9 | US-10-455-772-860 | Sequence 860, App |
| 719 | 28 | 48.3 | 928 | 9 | US-10-455-772-864 | Sequence 864, App |
| 720 | 28 | 48.3 | 928 | 9 | US-10-455-772-870 | Sequence 870, App |
| 721 | 28 | 48.3 | 1033 | 9 | US-10-921-415-1 | Sequence 1, Appli |
| 722 | 28 | 48.3 | 1033 | 9 | US-10-501-841-15 | Sequence 15, Appl |
| 723 | 28 | 48.3 | 1356 | 9 | US-10-922-232B-63 | Sequence 63, Appl |
| 724 | 28 | 48.3 | 1467 | 11 | US-11-079-463-9910 | Sequence 9910, Ap |
| 725 | 28 | 48.3 | 1484 | 9 | US-10-517-939-74 | Sequence 74, Appl |
| 726 | 28 | 48.3 | 1680 | 9 | US-10-517-939-362 | Sequence 362, App |
| 727 | 28 | 48.3 | 2050 | 9 | US-10-453-372-192 | Sequence 192, App |
| 728 | 28 | 48.3 | 3568 | 9 | US-10-453-372-194 | Sequence 194, App |
| 729 | 28 | 48.3 | 3570 | 9 | US-10-453-372-178 | Sequence 178, App |
| 730 | 28 | 48.3 | 3570 | 9 | US-10-453-372-196 | Sequence 196, App |
| 731 | 28 | 48.3 | 3570 | 9 | US-10-453-372-198 | Sequence 198, App |
| 732 | 28 | 48.3 | 3570 | 9 | US-10-453-372-200 | Sequence 200, App |
| 733 | 28 | 48.3 | 3570 | 9 | US-10-453-372-202 | Sequence 202, App |
| 734 | 28 | 48.3 | 3570 | 9 | US-10-453-372-204 | Sequence 204, App |
| 735 | 28 | 48.3 | 3570 | 9 | US-10-453-372-206 | Sequence 206, App |
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| 737 | 27.5 | 47.4 | 13 | 11 | US-11-153-143A-462 | Sequence 462, App |
| 738 | 27.5 | 47.4 | 118 | 11 | US-11-079-463-9737 | Sequence 9737, Ap |
| 739 | 27.5 | 47.4 | 176 | 11 | US-11-079-463-9088 | Sequence 9088, Ap |
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| 741 | 27.5 | 47.4 | 241 | 11 | US-11-019-955-29 | Sequence 29, Appl |
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| 743 | 27.5 | 47.4 | 313 | 11 | US-11-188-298-6797 | Sequence 6797, Ap |
| 744 | 27.5 | 47.4 | 368 | 11 | US-11-188-298-460 | Sequence 460, App |
| 745 | 27.5 | 47.4 | 451 | 11 | US-11-188-298-6556 | Sequence 6556, Ap |
| 746 | 27.5 | 47.4 | 464 | 11 | US-11-045-004-2764 | Sequence 2764, Ap |
| 747 | 27.5 | 47.4 | 1180 | 11 | US-11-079-463-9464 | Sequence 9464, Ap |
| 748 | 27 | 46.6 | 10 | 9 | US-10-929-988-18 | Sequence 18, Appl |
| 749 | 27 | 46.6 | 14 | 11 | US-11-198-847-274 | Sequence 274, App |
| 750 | 27 | 46.6 | 15 | 11 | US-11-198-847-12 | Sequence 12, Appl |
| 751 | 27 | 46.6 | 19 | 9 | US-10-503-575-109 | Sequence 109, App |
| 752 | 27 | 46.6 | 21 | 9 | US-10-939-890-598 | Sequence 598, App |
| 753 | 27 | 46.6 | 25 | 9 | US-10-846-172A-9 | Sequence 9, Appli |
| 754 | 27 | 46.6 | 25 | 11 | US-11-198-847-277 | Sequence 277, App |
| 755 | 27 | 46.6 | 25 | 11 | US-11-174-996A-46 | Sequence 46, Appl |
| 756 | 27 | 46.6 | 26 | 11 | US-11-119-293-24 | Sequence 24, Appl |
| 757 | 27 | 46.6 | 29 | 11 | US-11-198-847-273 | Sequence 273, App |
| 758 | 27 | 46.6 | 43 | 11 | US-11-096-568A-9436 | Sequence 9436, Ap |
| 759 | 27 | 46.6 | 44 | 11 | US-11-166-412-158 | Sequence 158, App |
| 760 | 27 | 46.6 | 47 | 9 | US-10-467-657-8947 | Sequence 8947, Ap |
| 761 | 27 | 46.6 | 49 | 9 | US-10-467-657-4058 | Sequence 4058, Ap |
| 762 | 27 | 46.6 | 63 | 11 | US-11-264-096-1051 | Sequence 1051, Ap |
| 763 | 27 | 46.6 | 63 | 11 | US-11-264-096-1052 | Sequence 1052, Ap |
| 764 | 27 | 46.6 | 71 | 11 | US-11-096-568A-2664 | Sequence 2664, Ap |
| 765 | 27 | 46.6 | 71 | 11 | US-11-264-096-2236 | Sequence 2236, Ap |
| 766 | 27 | 46.6 | 77 | 11 | US-11-096-568A-2663 | Sequence 2663, Ap |
| 767 | 27 | 46.6 | 82 | 11 | US-11-096-568A-3732 | Sequence 3732, Ap |
| 768 | 27 | 46.6 | 87 | 11 | US-11-096-568A-9434 | Sequence 9434, Ap |
| 769 | 27 | 46.6 | 93 | 11 | US-11-096-568A-4491 | Sequence 4491, Ap |
| 770 | 27 | 46.6 | 94 | 11 | US-11-031-206-44 | Sequence 44, Appl |
| 771 | 27 | 46.6 | 95 | 11 | US-11-198-847-8 | Sequence 8, Appli |
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| 773 | 27 | 46.6 | 103 | 11 | US-11-198-847-5 | Sequence 5, Appli |
| 774 | 27 | 46.6 | 106 | 11 | US-11-137-465-53 | Sequence 53, Appl |
| 775 | 27 | 46.6 | 109 | 11 | US-11-096-568A-4489 | Sequence 4489, Ap |
| 776 | 27 | 46.6 | 112 | 9 | US-10-453-372-562 | Sequence 562, App |
| 777 | 27 | 46.6 | 113 | 11 | US-11-096-568A-12061 | Sequence 12061, A |
| 778 | 27 | 46.6 | 114 | 11 | US-11-137-465-52 | Sequence 52, Appl |
| 779 | 27 | 46.6 | 117 | 11 | US-11-045-004-2053 | Sequence 2053, Ap |
| 780 | 27 | 46.6 | 127 | 11 | US-11-198-847-146 | Sequence 146, App |
| 781 | 27 | 46.6 | 128 | 9 | US-10-793-626-1620 | Sequence 1620, Ap |
| 782 | 27 | 46.6 | 135 | 9 | US-10-921-415-6 | Sequence 6, Appli |
| 783 | 27 | 46.6 | 135 | 9 | US-10-501-035-378 | Sequence 378, App |
| 784 | 27 | 46.6 | 137 | 11 | US-11-096-568A-12060 | Sequence 12060, A |
| 785 | 27 | 46.6 | 143 | 11 | US-11-096-568A-27254 | Sequence 27254, A |
| 786 | 27 | 46.6 | 145 | 9 | US-10-501-035-287 | Sequence 287, App |
| 787 | 27 | 46.6 | 163 | 11 | US-11-072-512-3336 | Sequence 3336, Ap |
| 788 | 27 | 46.6 | 167 | 9 | US-10-689-742-197 | Sequence 197, App |
| 789 | 27 | 46.6 | 173 | 11 | US-11-070-575-5 | Sequence 5, Appli |
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| 791 | 27 | 46.6 | 181 | 11 | US-11-096-568A-108 | Sequence 108, App |
| 792 | 27 | 46.6 | 183 | 11 | US-11-096-568A-1506 | Sequence 1506, Ap |
| 793 | 27 | 46.6 | 185 | 11 | US-11-220-372-358 | Sequence 358, App |
| 794 | 27 | 46.6 | 185 | 11 | US-11-264-096-1711 | Sequence 1711, Ap |
| 795 | 27 | 46.6 | 194 | 9 | US-10-218-784-32 | Sequence 32, Appl |
| 796 | 27 | 46.6 | 194 | 9 | US-10-219-061-32 | Sequence 32, Appl |
| 797 | 27 | 46.6 | 194 | 9 | US-10-219-062-32 | Sequence 32, Appl |
| 798 | 27 | 46.6 | 194 | 9 | US-10-219-064-32 | Sequence 32, Appl |
| 799 | 27 | 46.6 | 194 | 9 | US-10-233-134-32 | Sequence 32, Appl |
| 800 | 27 | 46.6 | 197 | 11 | US-11-188-298-7422 | Sequence 7422, Ap |
| 801 | 27 | 46.6 | 198 | 11 | US-11-126-427-12 | Sequence 12, Appl |
| 802 | 27 | 46.6 | 199 | 9 | US-10-793-626-186 | Sequence 186, App |
| 803 | 27 | 46.6 | 199 | 11 | US-11-096-568A-13434 | Sequence 13434, A |
| 804 | 27 | 46.6 | 206 | 11 | US-11-264-096-2211 | Sequence 2211, Ap |
| 805 | 27 | 46.6 | 207 | 11 | US-11-126-427-6 | Sequence 6, Appli |
| 806 | 27 | 46.6 | 207 | 11 | US-11-126-427-8 | Sequence 8, Appli |
| 807 | 27 | 46.6 | 207 | 11 | US-11-264-096-2208 | Sequence 2208, Ap |
| 808 | 27 | 46.6 | 214 | 11 | US-11-126-427-10 | Sequence 10, Appl |
| 809 | 27 | 46.6 | 216 | 11 | US-11-096-568A-1505 | Sequence 1505, Ap |
| 810 | 27 | 46.6 | 224 | 11 | US-11-096-568A-1504 | Sequence 1504, Ap |
| 811 | 27 | 46.6 | 226 | 9 | US-10-793-626-1932 | Sequence 1932, Ap |
| 812 | 27 | 46.6 | 226 | 11 | US-11-096-568A-16531 | Sequence 16531, A |
| 813 | 27 | 46.6 | 230 | 9 | US-10-644-807-273 | Sequence 273, App |
| 814 | 27 | 46.6 | 233 | 9 | US-10-467-657-6922 | Sequence 6922, Ap |
| 815 | 27 | 46.6 | 234 | 9 | US-10-644-807-440 | Sequence 440, App |
| 816 | 27 | 46.6 | 243 | 9 | US-10-131-826A-362 | Sequence 362, App |
| 817 | 27 | 46.6 | 243 | 9 | US-10-973-115B-362 | Sequence 362, App |
| 818 | 27 | 46.6 | 243 | 9 | US-10-137-873A-362 | Sequence 362, App |
| 819 | 27 | 46.6 | 243 | 9 | US-10-152-370-362 | Sequence 362, App |
| 820 | 27 | 46.6 | 243 | 11 | US-11-290-153-362 | Sequence 362, App |
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| 822 | 27 | 46.6 | 245 | 9 | US-10-644-807-376 | Sequence 376, App |
| 823 | 27 | 46.6 | 245 | 9 | US-10-986-405-207 | Sequence 207, App |
| 824 | 27 | 46.6 | 245 | 9 | US-10-986-405-280 | Sequence 280, App |

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| 825 | 27 | 46.6 | 245 | 11 | US-11-256-802-4 | Sequence 4, Appli |
| 826 | 27 | 46.6 | 251 | 11 | US-11-096-568A-22969 | Sequence 22969, A |
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| 828 | 27 | 46.6 | 252 | 11 | US-11-266-444-1218 | Sequence 1218, Ap |
| 829 | 27 | 46.6 | 253 | 9 | US-10-821-234-1438 | Sequence 1438, Ap |
| 830 | 27 | 46.6 | 253 | 11 | US-11-096-568A-23819 | Sequence 23819, A |
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| 832 | 27 | 46.6 | 255 | 11 | US-11-098-686-10492 | Sequence 10492, A |
| 833 | 27 | 46.6 | 256 | 11 | US-11-096-568A-22968 | Sequence 22968, A |
| 834 | 27 | 46.6 | 260 | 11 | US-11-220-372-330 | Sequence 330, App |
| 835 | 27 | 46.6 | 261 | 11 | US-11-096-568A-22967 | Sequence 22967, A |
| 836 | 27 | 46.6 | 262 | 8 | US-10-370-959-131 | Sequence 131, App |
| 837 | 27 | 46.6 | 265 | 11 | US-11-096-568A-23818 | Sequence 23818, A |
| 838 | 27 | 46.6 | 269 | 9 | US-10-455-772-692 | Sequence 692, App |
| 839 | 27 | 46.6 | 269 | 11 | US-11-079-463-6246 | Sequence 6246, Ap |
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| 843 | 27 | 46.6 | 273 | 11 | US-11-188-298-19383 | Sequence 19383, A |
| 844 | 27 | 46.6 | 274 | 11 | US-11-067-260-25 | Sequence 25, Appl |
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| 846 | 27 | 46.6 | 280 | 11 | US-11-096-568A-5968 | Sequence 5968, Ap |
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| 848 | 27 | 46.6 | 283 | 9 | US-10-219-061-44 | Sequence 44, Appl |
| 849 | 27 | 46.6 | 283 | 9 | US-10-219-062-44 | Sequence 44, Appl |
| 850 | 27 | 46.6 | 283 | 9 | US-10-219-064-44 | Sequence 44, Appl |
| 851 | 27 | 46.6 | 283 | 9 | US-10-233-134-44 | Sequence 44, Appl |
| 852 | 27 | 46.6 | 286 | 11 | US-11-087-099-7739 | Sequence 7739, Ap |
| 853 | 27 | 46.6 | 287 | 11 | US-11-087-099-10597 | Sequence 10597, A |
| 854 | 27 | 46.6 | 288 | 11 | US-11-096-568A-23817 | Sequence 23817, A |
| 855 | 27 | 46.6 | 293 | 9 | US-10-793-626-626 | Sequence 626, App |
| 856 | 27 | 46.6 | 293 | 9 | US-10-793-626-2602 | Sequence 2602, Ap |
| 857 | 27 | 46.6 | 295 | 9 | US-10-793-626-2946 | Sequence 2946, Ap |
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| 863 | 27 | 46.6 | 306 | 11 | US-11-052-554A-276 | Sequence 276, App |
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| 866 | 27 | 46.6 | 307 | 10 | US-11-283-522-33 | Sequence 33, Appl |
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| 868 | 27 | 46.6 | 307 | 11 | US-11-019-711-88 | Sequence 88, Appl |
| 869 | 27 | 46.6 | 307 | 11 | US-11-019-711-91 | Sequence 91, Appl |
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| 872 | 27 | 46.6 | 309 | 11 | US-11-087-099-10426 | Sequence 10426, A |
| 873 | 27 | 46.6 | 309 | 11 | US-11-096-568A-5967 | Sequence 5967, Ap |
| 874 | 27 | 46.6 | 309 | 11 | US-11-188-298-11429 | Sequence 11429, A |
| 875 | 27 | 46.6 | 309 | 11 | US-11-188-298-14967 | Sequence 14967, A |
| 876 | 27 | 46.6 | 316 | 9 | US-10-506-454-1027 | Sequence 1027, Ap |
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| 878 | 27 | 46.6 | 320 | 9 | US-10-455-772-694 | Sequence 694, App |
| 879 | 27 | 46.6 | 321 | 9 | US-10-821-234-1192 | Sequence 1192, Ap |
| 880 | 27 | 46.6 | 321 | 11 | US-11-096-568A-20636 | Sequence 20636, A |
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| 884 | 27 | 46.6 | 329 | 11 | US-11-188-298-3030 | Sequence 3030, Ap |
| 885 | 27 | 46.6 | 331 | 9 | US-10-063-703-36 | Sequence 36, Appl |
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| 898 | 27 | 46.6 | 349 | 9 | US-10-793-626-932 | Sequence 932, App |
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| 942 | 27 | 46.6 | 438 | 11 | US-11-096-568A-12502 | Sequence 12502, A |
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| 955 | 27 | 46.6 | 463 | 11 | US-11-154-673-9 | Sequence 9, Appli |
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| 960 | 27 | 46.6 | 470 | 11 | US-11-188-298-16692 | Sequence 16692, A |
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| 962 | 27 | 46.6 | 476 | 11 | US-11-188-298-15047 | Sequence 15047, A |
| 963 | 27 | 46.6 | 479 | 11 | US-11-087-099-11307 | Sequence 11307, A |
| 964 | 27 | 46.6 | 479 | 11 | US-11-096-568A-29358 | Sequence 29358, A |
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| 966 | 27 | 46.6 | 481 | 9 | US-10-858-144-3 | Sequence 3, Appli |
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| 968 | 27 | 46.6 | 487 | 11 | US-11-096-568A-1880 | Sequence 1880, Ap |
| 969 | 27 | 46.6 | 488 | 11 | US-11-010-239-14 | Sequence 14, Appl |
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| 972 | 27 | 46.6 | 492 | 11 | US-11-072-512-1974 | Sequence 1974, Ap |
| 973 | 27 | 46.6 | 492 | 11 | US-11-072-512-3223 | Sequence 3223, Ap |
| 974 | 27 | 46.6 | 492 | 11 | US-11-264-096-1784 | Sequence 1784, Ap |
| 975 | 27 | 46.6 | 495 | 11 | US-11-087-099-3101 | Sequence 3101, Ap |
| 976 | 27 | 46.6 | 497 | 9 | US-10-918-857-8 | Sequence 8, Appli |
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| 979 | 27 | 46.6 | 501 | 11 | US-11-087-099-8133 | Sequence 8133, Ap |
| 980 | 27 | 46.6 | 501 | 11 | US-11-087-099-9295 | Sequence 9295, Ap |
| 981 | 27 | 46.6 | 502 | 11 | US-11-096-568A-1879 | Sequence 1879, Ap |
| 982 | 27 | 46.6 | 503 | 11 | US-11-087-099-6570 | Sequence 6570, Ap |
| 983 | 27 | 46.6 | 503 | 11 | US-11-087-099-9082 | Sequence 9082, Ap |
| 984 | 27 | 46.6 | 504 | 11 | US-11-087-099-2620 | Sequence 2620, Ap |
| 985 | 27 | 46.6 | 506 | 11 | US-11-154-673-2 | Sequence 2, Appli |
| 986 | 27 | 46.6 | 506 | 11 | US-11-096-568A-15968 | Sequence 15968, A |
| 987 | 27 | 46.6 | 509 | 11 | US-11-155-288-8 | Sequence 8, Appli |
| 988 | 27 | 46.6 | 510 | 11 | US-11-093-814-1 | Sequence 1, Appli |
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| 991 | 27 | 46.6 | 517 | 11 | US-11-135-603-8 | Sequence 8, Appli |
| 992 | 27 | 46.6 | 524 | 11 | US-11-188-298-6644 | Sequence 6644, Ap |
| 993 | 27 | 46.6 | 531 | 8 | US-10-505-928-408 | Sequence 408, App |
| 994 | 27 | 46.6 | 531 | 11 | US-11-054-281-105 | Sequence 105, App |
| 995 | 27 | 46.6 | 535 | 11 | US-11-087-099-2008 | Sequence 2008, Ap |
| 996 | 27 | 46.6 | 536 | 11 | US-11-123-873-5 | Sequence 5, Appli |
| 997 | 27 | 46.6 | 541 | 11 | US-11-031-206-46 | Sequence 46, Appl |
| 998 | 27 | 46.6 | 542 | 9 | US-10-506-454-1262 | Sequence 1262, Ap |
| 999 | 27 | 46.6 | 543 | 11 | US-11-087-099-1069 | Sequence 1069, Ap |
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ALIGNMENTS

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RESULT 1
US-11-041-893-101
; Sequence 101, Application US/11041893
; Publication No. US20060002941A1
; GENERAL INFORMATION:
;  APPLICANT: Mahairas, Gregory G.
;  TITLE OF INVENTION: COMPOSITIONS COMPRISING IMMUNE RESPONSE
;  TITLE OF INVENTION:  ALTERING AGENTS AND METHODS OF USE
;  FILE REFERENCE: 100123.401
;  CURRENT APPLICATION NUMBER: US/11/041,893
;  CURRENT FILING DATE:  2005-01-24
;  PRIOR APPLICATION NUMBER: US 60/616,855
;  PRIOR FILING DATE: 2004-10-06
;  PRIOR APPLICATION NUMBER: US 60/538,713
;  PRIOR FILING DATE: 2004-01-23
;  NUMBER OF SEQ ID NOS: 295
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 101
;   LENGTH: 35
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus E7
US-11-041-893-101

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Db          9 HYNIVTFCC 17


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US-10-511-814-8
; Sequence 8, Application US/10511814
; Publication No. US20060088472A1
; GENERAL INFORMATION:
;  APPLICANT: McCance, Dennis
;  APPLICANT:  Westbrook, III, Thomas F.
;  TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
;  FILE REFERENCE: 21108.0016U2
;  CURRENT APPLICATION NUMBER: US/10/511,814
;  CURRENT FILING DATE:  2004-10-19
;  PRIOR APPLICATION NUMBER: PCT/US03/12667
;  PRIOR FILING DATE: 2003-04-21
;  PRIOR APPLICATION NUMBER: 60/374,245
;  PRIOR FILING DATE: 2002-04-19
;  NUMBER OF SEQ ID NOS: 21
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:/Note =
;   OTHER INFORMATION: Synthetic Construct
US-10-511-814-8

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; Sequence 11, Application US/10511814
; Publication No. US20060088472A1
; GENERAL INFORMATION:
;  APPLICANT: McCance, Dennis
;  APPLICANT:  Westbrook, III, Thomas F.
;  TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
;  FILE REFERENCE: 21108.0016U2
;  CURRENT APPLICATION NUMBER: US/10/511,814
;  CURRENT FILING DATE:  2004-10-19
;  PRIOR APPLICATION NUMBER: PCT/US03/12667
;  PRIOR FILING DATE: 2003-04-21
;  PRIOR APPLICATION NUMBER: 60/374,245
;  PRIOR FILING DATE: 2002-04-19
;  NUMBER OF SEQ ID NOS: 21
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:/Note =
;   OTHER INFORMATION: Synthetic Construct
US-10-511-814-11

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Db         51 HYNIVTFCC 59


RESULT 4
US-10-530-253-14
; Sequence 14, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
```

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;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 14
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-14

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Qy          1 HYNIVTFCC 9
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Db         51 HYNIVTFCC 59


RESULT 5
US-11-179-478-4
; Sequence 4, Application US/11179478
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;  GENERAL INFORMATION:
;    APPLICANT:  BURGER, Alexander
;    APPLICANT:  HALLEK, Michael
;    TITLE OF INVENTION:  PAPILLOMA VIRUS CAPSOMERE VACCINE
;    TITLE OF INVENTION:  FORMULATIONS AND METHODS OF USE
;    NUMBER OF SEQUENCES:  28
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  FOLEY & LARDNER
;      STREET:  3000 K Street, N.W.
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20007-5109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/11/179,478
;      FILING DATE:  13-JULY-2005
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/10/654,129
;      FILING DATE:  04-Sep-2003
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Sandercock, Colin G.
;      REGISTRATION NUMBER:  31,298
;      REFERENCE/DOCKET NUMBER:  37067/102
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 672-5300
;      TELEFAX:  (202) 672-5399
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  98 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-11-179-478-4

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Db         51 HYNIVTFCC 59


RESULT 6
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-1

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Db        201 HYNIVTFCC 209


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US-10-530-253-3
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; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
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US-10-530-253-3

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Db        201 HYNIVTFCC 209
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RESULT 8
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
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;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-5

  Query Match             100.0%;  Score 58;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.0044;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db        201 HYNIVTFCC 209


RESULT 9
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-7

  Query Match             100.0%;  Score 58;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.0044;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 10
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-9

  Query Match             100.0%;  Score 58;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.0044;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 11
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-11

  Query Match             100.0%;  Score 58;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.0044;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 12
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
;  APPLICANT: PANG, XIAOWU
;  TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
;  TITLE OF INVENTION:  RECOMBINANT REPLICON
;  FILE REFERENCE: 116620-003
```

```
;  CURRENT APPLICATION NUMBER: US/11/192,923A
;  CURRENT FILING DATE:  2005-07-29
;  PRIOR APPLICATION NUMBER: CN 03115272.4
;  PRIOR FILING DATE: 2003-01-30
;  PRIOR APPLICATION NUMBER: CN 03115273.2
;  PRIOR FILING DATE: 2003-01-30
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
;   LENGTH: 256
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-11-192-923A-2

  Query Match            100.0%;  Score 58;  DB 11;  Length 256;
  Best Local Similarity  100.0%;  Pred. No. 0.0045;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |||||||||
Db         51 HYNIVTFCC 59


RESULT 13
US-10-530-253-28
; Sequence 28, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 28
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 31
US-10-530-253-28

  Query Match            87.9%;  Score 51;  DB 9;  Length 98;
  Best Local Similarity  88.9%;  Pred. No. 0.033;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              :||||||||
Db         51 NYNIVTFCC 59


RESULT 14
US-10-530-061-666
; Sequence 666, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 666
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-666

  Query Match            74.1%;  Score 43;  DB 9;  Length 10;
  Best Local Similarity  100.0%;  Pred. No. 0.11;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 NIVTFCC 9
              |||||||
Db          1 NIVTFCC 7


RESULT 15
US-10-530-253-30
; Sequence 30, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 30
;   LENGTH: 99
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 35
US-10-530-253-30

  Query Match            74.1%;  Score 43;  DB 9;  Length 99;
  Best Local Similarity  77.8%;  Pred. No. 0.86;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              :||||| ||
Db         52 NYNIVTSCC 60


RESULT 16
US-10-530-061-665
; Sequence 665, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
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; SEQ ID NO 665
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-665

  Query Match             72.4%;  Score 42;  DB 9;  Length 10;
  Best Local Similarity   85.7%;  Pred. No. 0.17;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 NIVTFCC 9
              |:||||
Db          1 NVVTFCC 7


RESULT 17
US-10-530-253-41
; Sequence 41, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 41
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-41

  Query Match             69.0%;  Score 40;  DB 9;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.9e+05;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTF 7
              |||||||
Db          3 HYNIVTF 9


RESULT 18
US-10-962-951-9
; Sequence 9, Application US/10962951
; Publication No. US20060029610A1
; GENERAL INFORMATION:
;  APPLICANT: Argon, Yair
;  APPLICANT:  Gidalevitz, Tali
;  APPLICANT:  Biswas, Chhanda
;  APPLICANT:  Simen, Birgitte B.
;  APPLICANT:  Wanderling, Sherry
;  APPLICANT:  Ostrovsky, Olga
;  TITLE OF INVENTION: GRP94-BASED COMPOSITIONS AND METHODS OF
;  TITLE OF INVENTION:  USE THEREOF
;  FILE REFERENCE: 3460-CHOP.C-206US
;  CURRENT APPLICATION NUMBER: US/10/962,951
;  CURRENT FILING DATE:  2004-10-12
;  PRIOR APPLICATION NUMBER: US/10/844,711
;  PRIOR FILING DATE: 2004-05-12
;  PRIOR APPLICATION NUMBER: 60/469,723
;  PRIOR FILING DATE: 2003-05-12
;  PRIOR APPLICATION NUMBER: 60/477,990
;  PRIOR FILING DATE: 2003-06-12
;  PRIOR APPLICATION NUMBER: 60/478,149
;  PRIOR FILING DATE: 2003-06-12
;  PRIOR APPLICATION NUMBER: 60/556,362
;  PRIOR FILING DATE: 2004-04-28
;  PRIOR APPLICATION NUMBER: 60/566,363
;  PRIOR FILING DATE: 2004-04-28
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 9
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: RAH
US-10-962-951-9

  Query Match             69.0%;  Score 40;  DB 9;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.9e+05;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTF 7
              |||||||
Db          3 HYNIVTF 9


RESULT 19
US-11-041-893-100
; Sequence 100, Application US/11041893
; Publication No. US20060002941A1
; GENERAL INFORMATION:
;  APPLICANT: Mahairas, Gregory G.
;  TITLE OF INVENTION: COMPOSITIONS COMPRISING IMMUNE RESPONSE
;  TITLE OF INVENTION:  ALTERING AGENTS AND METHODS OF USE
;  FILE REFERENCE: 100123.401
;  CURRENT APPLICATION NUMBER: US/11/041,893
;  CURRENT FILING DATE:  2005-01-24
;  PRIOR APPLICATION NUMBER: US 60/616,855
;  PRIOR FILING DATE: 2004-10-06
;  PRIOR APPLICATION NUMBER: US 60/538,713
;  PRIOR FILING DATE: 2004-01-23
;  NUMBER OF SEQ ID NOS: 295
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 100
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus E7
US-11-041-893-100

  Query Match             69.0%;  Score 40;  DB 11;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.9e+05;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTF 7
              |||||||
Db          3 HYNIVTF 9


RESULT 20
US-11-121-840-5
; Sequence 5, Application US/11121840
; Publication No. US20060008472A1
; GENERAL INFORMATION:
;  APPLICANT: Huang, Leaf
;  APPLICANT:  Cui, Zhengrong
;  APPLICANT:  Dileo, John
;  APPLICANT:  Han, Su-Ji
;  APPLICANT:  Vangasseri, Dileep P.
;  APPLICANT:  University of Pittsburgh
;  TITLE OF INVENTION: Antigen Delivery Compositions and Methods of Use
;  FILE REFERENCE: 022317-000110US
;  CURRENT APPLICATION NUMBER: US/11/121,840
;  CURRENT FILING DATE:  2005-05-02
;  PRIOR APPLICATION NUMBER: US 60/567,291
;  PRIOR FILING DATE: 2004-04-30
;  NUMBER OF SEQ ID NOS: 5
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; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:human
;   OTHER INFORMATION: papillomavirus subtype 16 E7 oncogene
;   OTHER INFORMATION: tumor-associated antigen MHC class I restricted
;   OTHER INFORMATION: peptide
US-11-121-840-5

  Query Match             69.0%;  Score 40;  DB 11;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.9e+05;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTF 7
              |||||||
Db          3 HYNIVTF 9


RESULT 21
US-11-128-420-9
; Sequence 9, Application US/11128420
; Publication No. US20050266463A1
; GENERAL INFORMATION:
;  APPLICANT: Nicolaides, Nicholas
;  APPLICANT:  Grasso, Luigi
;  APPLICANT:  Sass, Philip
;  APPLICANT:  Kinzler, Kenneth
;  APPLICANT:  Vogelstein, Bert
;  TITLE OF INVENTION: A method for generating hypermutable
;  TITLE OF INVENTION:  plants
;  FILE REFERENCE: 01107.00069
;  CURRENT APPLICATION NUMBER: US/11/128,420
;  CURRENT FILING DATE:  2005-05-13
;  PRIOR APPLICATION NUMBER: 60/183,333
;  PRIOR FILING DATE: 2000-02-18
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 9
;   LENGTH: 737
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
US-11-128-420-9

  Query Match             63.8%;  Score 37;  DB 11;  Length 737;
  Best Local Similarity   66.7%;  Pred. No. 59;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              ||| |:| |
Db        207 HYNNVSFSC 215


RESULT 22
US-11-188-298-7283
; Sequence 7283, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 7283
;   LENGTH: 445
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
US-11-188-298-7283

  Query Match             62.1%;  Score 36;  DB 11;  Length 445;
  Best Local Similarity   62.5%;  Pred. No. 56;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFC 8
              ||: :|||
Db        345 HYDTLTFC 352


RESULT 23
US-11-188-298-11300
; Sequence 11300, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 11300
;   LENGTH: 445
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
US-11-188-298-11300

  Query Match             62.1%;  Score 36;  DB 11;  Length 445;
  Best Local Similarity   62.5%;  Pred. No. 56;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFC 8
              ||: :|||
Db        345 HYDTLTFC 352


RESULT 24
US-11-119-293-27
; Sequence 27, Application US/11119293
; Publication No. US20060019339A1
; GENERAL INFORMATION:
;  APPLICANT: Lauth, Xavier
;  TITLE OF INVENTION: Measurement of bioactive hepcidin
;  FILE REFERENCE: 05-KST/104
;  CURRENT APPLICATION NUMBER: US/11/119,293
;  CURRENT FILING DATE:  2005-04-28
;  PRIOR APPLICATION NUMBER: US 60/566,387
;  PRIOR FILING DATE: 2004-04-28
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 27
;   LENGTH: 25
;   TYPE: PRT
;   ORGANISM: Canis familiaris
US-11-119-293-27

  Query Match             60.3%;  Score 35;  DB 11;  Length 25;
  Best Local Similarity   55.6%;  Pred. No. 6.6;
  Matches    5;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |: |  |||
Db          3 HFPICIFCC 11


RESULT 25
US-11-119-293-28
; Sequence 28, Application US/11119293
; Publication No. US20060019339A1
; GENERAL INFORMATION:
;  APPLICANT: Lauth, Xavier
```

; TITLE OF INVENTION: Measurement of bioactive hepcidin
; FILE REFERENCE: 05-KST/104
; CURRENT APPLICATION NUMBER: US/11/119,293
; CURRENT FILING DATE: 2005-04-28
; PRIOR APPLICATION NUMBER: US 60/566,387
; PRIOR FILING DATE: 2004-04-28
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 28
; LENGTH: 25
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-119-293-28

Query Match 60.3%; Score 35; DB 11; Length 25;
Best Local Similarity 55.6%; Pred. No. 6.6;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
|: | |||
Db 3 HFPICIFCC 11

RESULT 26
US-11-119-293-31
; Sequence 31, Application US/11119293
; Publication No. US20060019339A1
; GENERAL INFORMATION:
; APPLICANT: Lauth, Xavier
; TITLE OF INVENTION: Measurement of bioactive hepcidin
; FILE REFERENCE: 05-KST/104
; CURRENT APPLICATION NUMBER: US/11/119,293
; CURRENT FILING DATE: 2005-04-28
; PRIOR APPLICATION NUMBER: US 60/566,387
; PRIOR FILING DATE: 2004-04-28
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 31
; LENGTH: 25
; TYPE: PRT
; ORGANISM: Pan troglodytes
US-11-119-293-31

Query Match 60.3%; Score 35; DB 11; Length 25;
Best Local Similarity 55.6%; Pred. No. 6.6;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
|: | |||
Db 3 HFPICIFCC 11

RESULT 27
US-11-119-293-32
; Sequence 32, Application US/11119293
; Publication No. US20060019339A1
; GENERAL INFORMATION:
; APPLICANT: Lauth, Xavier
; TITLE OF INVENTION: Measurement of bioactive hepcidin
; FILE REFERENCE: 05-KST/104
; CURRENT APPLICATION NUMBER: US/11/119,293
; CURRENT FILING DATE: 2005-04-28
; PRIOR APPLICATION NUMBER: US 60/566,387
; PRIOR FILING DATE: 2004-04-28
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 32
; LENGTH: 25
; TYPE: PRT
; ORGANISM: Pongo pygmaeus
US-11-119-293-32

Query Match 60.3%; Score 35; DB 11; Length 25;
Best Local Similarity 55.6%; Pred. No. 6.6;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
|: | |||
Db 3 HFPIYIFCC 11

RESULT 28
US-11-119-293-34
; Sequence 34, Application US/11119293
; Publication No. US20060019339A1
; GENERAL INFORMATION:
; APPLICANT: Lauth, Xavier
; TITLE OF INVENTION: Measurement of bioactive hepcidin
; FILE REFERENCE: 05-KST/104
; CURRENT APPLICATION NUMBER: US/11/119,293
; CURRENT FILING DATE: 2005-04-28
; PRIOR APPLICATION NUMBER: US 60/566,387
; PRIOR FILING DATE: 2004-04-28
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 34
; LENGTH: 25
; TYPE: PRT
; ORGANISM: Sus scrofa
US-11-119-293-34

Query Match 60.3%; Score 35; DB 11; Length 25;
Best Local Similarity 55.6%; Pred. No. 6.6;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
|: | |||
Db 3 HFPICIFCC 11

RESULT 29
US-10-063-703-44
; Sequence 44, Application US/10063703
; Publication No. US20060008901A1
; GENERAL INFORMATION:
; APPLICANT: Eaton,Dan L.
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Gerritsen,Mary E.
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul J.
; APPLICANT: Grimaldi,Christopher J.
; APPLICANT: Gurney,Austin L.
; APPLICANT: Watanabe,Colin K.
; APPLICANT: Wood,William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3230R1C1
; CURRENT APPLICATION NUMBER: US/10/063,703
; CURRENT FILING DATE: 2002-05-08
; Prior Application removed - See Palm or File Wrapper
; NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 44
; LENGTH: 84
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-063-703-44

Query Match 60.3%; Score 35; DB 9; Length 84;
Best Local Similarity 55.6%; Pred. No. 19;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 HYNIVTFCC 9
|: | |||
Db 62 HFPICIFCC 70

```
RESULT 30
US-10-194-487-186
; Sequence 186, Application US/10194487
; Publication No. US20060074226A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Chen,Jian
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Pan,James
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  APPLICANT:  Zhang,Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3430R1C312
;  CURRENT APPLICATION NUMBER: US/10/194,487
;  CURRENT FILING DATE:  2002-07-12
;  PRIOR APPLICATION NUMBER: 10/052586
;  PRIOR FILING DATE: 2002-01-15
;  PRIOR APPLICATION NUMBER: 60/059263
;  PRIOR FILING DATE: 1997-09-18
;  PRIOR APPLICATION NUMBER: 60/059266
;  PRIOR FILING DATE: 1997-09-18
;  PRIOR APPLICATION NUMBER: 60/062250
;  PRIOR FILING DATE: 1997-10-17
;  PRIOR APPLICATION NUMBER: 60/063120
;  PRIOR FILING DATE: 1997-10-24
;  PRIOR APPLICATION NUMBER: 60/063121
;  PRIOR FILING DATE: 1997-10-24
;  PRIOR APPLICATION NUMBER: 60/063486
;  PRIOR FILING DATE: 1997-10-21
;  PRIOR APPLICATION NUMBER: 60/063540
;  PRIOR FILING DATE: 1997-10-28
;  PRIOR APPLICATION NUMBER: 60/063541
;  PRIOR FILING DATE: 1997-10-28
;  PRIOR APPLICATION NUMBER: 60/063544
;  PRIOR FILING DATE: 1997-10-28
;  Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 186
;   LENGTH: 84
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-194-487-186

  Query Match             60.3%;  Score 35;  DB 9;  Length 84;
  Best Local Similarity   55.6%;  Pred. No. 19;
  Matches    5;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |: |  |||
Db         62 HFPICIFCC 70


RESULT 31
US-10-195-883-186
; Sequence 186, Application US/10195883
; Publication No. US20060073544A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Chen,Jian
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Pan,James
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  APPLICANT:  Zhang,Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3430R1C323
;  CURRENT APPLICATION NUMBER: US/10/195,883
;  CURRENT FILING DATE:  2002-07-15
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 186
;   LENGTH: 84
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-195-883-186

  Query Match             60.3%;  Score 35;  DB 9;  Length 84;
  Best Local Similarity   55.6%;  Pred. No. 19;
  Matches    5;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |: |  |||
Db         62 HFPICIFCC 70


RESULT 32
US-10-195-888-186
; Sequence 186, Application US/10195888
; Publication No. US20060073545A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Chen,Jian
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Pan,James
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  APPLICANT:  Zhang,Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3430R1C324
;  CURRENT APPLICATION NUMBER: US/10/195,888
;  CURRENT FILING DATE:  2002-07-15
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 186
;   LENGTH: 84
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-195-888-186

  Query Match             60.3%;  Score 35;  DB 9;  Length 84;
  Best Local Similarity   55.6%;  Pred. No. 19;
  Matches    5;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |: |  |||
Db         62 HFPICIFCC 70


RESULT 33
US-10-195-889-186
; Sequence 186, Application US/10195889
; Publication No. US20060074227A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Chen,Jian
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Pan,James
```

```
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  APPLICANT:  Zhang,Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3430R1C329
;  CURRENT APPLICATION NUMBER: US/10/195,889
;  CURRENT FILING DATE:  2002-07-15
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 186
;   LENGTH: 84
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-195-889-186

  Query Match             60.3%;  Score 35;  DB 9;  Length 84;
  Best Local Similarity   55.6%;  Pred. No. 19;
  Matches    5;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |: |  |||
Db         62 HFPICIFCC 70


RESULT 34
US-11-102-240-44
; Sequence 44, Application US/11102240
; Publication No. US20050260647A1
; GENERAL INFORMATION:
;  APPLICANT: Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: ANTIBODIES TO POLYPEPTIDES ENCODED BY A NUCLEIC ACID UNDEREXPRESS
;  TITLE OF INVENTION:  ESOPHAGEAL TUMOR
;  FILE REFERENCE: P3230R1C106C
;  CURRENT APPLICATION NUMBER: US/11/102,240
;  CURRENT FILING DATE:  2005-04-08
;  PRIOR APPLICATION NUMBER: 10/063662
;  PRIOR FILING DATE: 2002-05-07
;  PRIOR APPLICATION NUMBER: 10/006867
;  PRIOR FILING DATE: 2001-12-06
;  PRIOR APPLICATION NUMBER: PCT/US00/23328
;  PRIOR FILING DATE: 2000-08-24
;  PRIOR APPLICATION NUMBER: 60/170262
;  PRIOR FILING DATE: 199-12-09
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 44
;   LENGTH: 84
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-11-102-240-44

  Query Match             60.3%;  Score 35;  DB 11;  Length 84;
  Best Local Similarity   55.6%;  Pred. No. 19;
  Matches    5;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |: |  |||
Db         62 HFPICIFCC 70


RESULT 35
US-11-103-195-44
; Sequence 44, Application US/11103195
; Publication No. US20060051779A1
; GENERAL INFORMATION:
;  APPLICANT: Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,Christopher J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Wood,William I.
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3230C166C1
;  CURRENT APPLICATION NUMBER: US/11/103,195
;  CURRENT FILING DATE:  2005-04-11
;  PRIOR APPLICATION NUMBER: 10/063743
;  PRIOR FILING DATE: 2002-05-09
;  PRIOR APPLICATION NUMBER: 10/006867
;  PRIOR FILING DATE: 2001-12-06
;  PRIOR APPLICATION NUMBER: 60/082797
;  PRIOR FILING DATE: 1998-04-22
;  PRIOR APPLICATION NUMBER: PCT/US00/23328
;  PRIOR FILING DATE: 2000-08-24
;  PRIOR APPLICATION NUMBER: 60/170262
;  PRIOR FILING DATE: 1999-12-09
;  NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 44
;   LENGTH: 84
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-11-103-195-44

  Query Match             60.3%;  Score 35;  DB 11;  Length 84;
  Best Local Similarity   55.6%;  Pred. No. 19;
  Matches    5;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |: |  |||
Db         62 HFPICIFCC 70


RESULT 36
US-10-515-604-2
; Sequence 2, Application US/10515604
; Publication No. US20060057143A1
; GENERAL INFORMATION:
;  APPLICANT: Golz, Stefan
;  APPLICANT:  Bruggemeier, Ulf
;  APPLICANT:  Geerts, Andreas
;  TITLE OF INVENTION: Diagnostics and Therapeutics for Diseases Associated with
;  TITLE OF INVENTION:  Chemokine Receptor 11 (CCR11)
;  FILE REFERENCE: Le A 36 103
;  CURRENT APPLICATION NUMBER: US/10/515,604
;  CURRENT FILING DATE:  2005-06-27
;  PRIOR APPLICATION NUMBER: PCT/EP03/04915
;  PRIOR FILING DATE: 2003-05-12
;  PRIOR APPLICATION NUMBER: EP 02011528.3
;  PRIOR FILING DATE: 2002-05-23
;  NUMBER OF SEQ ID NOS: 5
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2
;   LENGTH: 350
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-515-604-2

  Query Match             60.3%;  Score 35;  DB 9;  Length 350;
  Best Local Similarity   85.7%;  Pred. No. 68;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YNIVTFC 8
              |||| ||
Db        256 YNIVKFC 262


RESULT 37
US-11-090-439-18
; Sequence 18, Application US/11090439
; Publication No. US20050266442A1
; GENERAL INFORMATION:
;  APPLICANT: Squillace, Rachel
```

```
;  APPLICANT:  Weiner, Michael P.
;  TITLE OF INVENTION: Immortalized Human Tuberous Sclerosis Null
;  TITLE OF INVENTION:  Angiomyolipoma Cell and Method of Use Thereof
;  FILE REFERENCE: 24318-502
;  CURRENT APPLICATION NUMBER: US/11/090,439
;  CURRENT FILING DATE:  2005-03-25
;  PRIOR APPLICATION NUMBER: 60/556,344
;  PRIOR FILING DATE: 2004-03-25
;  NUMBER OF SEQ ID NOS: 62
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
;   LENGTH: 553
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-090-439-18

  Query Match             60.3%;  Score 35;  DB 11;  Length 553;
  Best Local Similarity   57.1%;  Pred. No. 1e+02;
  Matches    4;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 NIVTFCC 9
              |:: |||
Db        411 NVIRFCC 417


RESULT 38
US-11-079-463-8474
; Sequence 8474, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PATH00-03DIV2
;  CURRENT APPLICATION NUMBER: US/11/079,463
;  CURRENT FILING DATE:  2005-03-14
;  PRIOR APPLICATION NUMBER: US 60/128,705
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/540,209
;  PRIOR FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 8474
;   LENGTH: 702
;   TYPE: PRT
;   ORGANISM: B.fragilis
US-11-079-463-8474

  Query Match             60.3%;  Score 35;  DB 11;  Length 702;
  Best Local Similarity   62.5%;  Pred. No. 1.3e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 YNIVTFCC 9
              |: | |||
Db         35 YSCVAFCC 42


RESULT 39
US-11-004-399-2186
; Sequence 2186, Application US/11004399
; Publication No. US20060053516A1
; GENERAL INFORMATION:
;  APPLICANT: Chye, Mee Lee
;  APPLICANT:  Li, Hong Ye
;  APPLICANT:  Ramalingam, Sathiskumar
;  APPLICANT:  Poon, Leo Lit Man
;  APPLICANT:  Peiris, Joseph Sriyal Malik
;  TITLE OF INVENTION: Genetically Modified Plants Comprising SARS-CoV Viral Nucleotide
;  TITLE OF INVENTION:  Sequences and Methods of Use Thereof For Immunization Against SA
;  FILE REFERENCE: 2587/73166/RDK
;  CURRENT APPLICATION NUMBER: US/11/004,399
;  CURRENT FILING DATE:  2004-12-03
;  PRIOR APPLICATION NUMBER: US 60/527,637
;  PRIOR FILING DATE: 2003-12-03
;  NUMBER OF SEQ ID NOS: 4043
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2186
;   LENGTH: 46
;   TYPE: PRT
;   ORGANISM: SARS-CoV Virus
US-11-004-399-2186

  Query Match             58.6%;  Score 34;  DB 11;  Length 46;
  Best Local Similarity   100.0%;  Pred. No. 17;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 NIVTFC 8
              ||||||
Db          1 NIVTFC 6


RESULT 40
US-10-512-386-56
; Sequence 56, Application US/10512386
; Publication No. US20060088837A1
; GENERAL INFORMATION:
;  APPLICANT: NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY
;  TITLE OF INVENTION: EXPRESSION SYSTEM FOR STEM-LOOP RNA MOLECULES HAVING RNAi EFFECT
;  FILE REFERENCE: GFU-A0203Y1P
;  CURRENT APPLICATION NUMBER: US/10/512,386
;  CURRENT FILING DATE:  2004-10-25
;  PRIOR APPLICATION NUMBER: JP 2002-127089
;  PRIOR FILING DATE: 2002-04-26
;  PRIOR APPLICATION NUMBER: JP 2003-4706
;  PRIOR FILING DATE: 2003-01-10
;  PRIOR APPLICATION NUMBER: US 60/449,860
;  PRIOR FILING DATE: 2003-02-27
;  NUMBER OF SEQ ID NOS: 56
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 56
;   LENGTH: 1924
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-512-386-56

  Query Match             58.6%;  Score 34;  DB 8;  Length 1924;
  Best Local Similarity   62.5%;  Pred. No. 4.6e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFC 8
              ||| :| |
Db       1695 HYNTITDC 1702


RESULT 41
US-10-505-928-104
; Sequence 104, Application US/10505928
; Publication No. US20060088532A1
; GENERAL INFORMATION:
;  APPLICANT: Ludwig Institute for Cancer Research et al.
;  TITLE OF INVENTION: LYMPHATIC ENDOTHELIAL GENES
;  FILE REFERENCE: 28967/39178
;  CURRENT APPLICATION NUMBER: US/10/505,928
;  CURRENT FILING DATE:  2004-08-27
;  PRIOR APPLICATION NUMBER: US 60/363,019
;  PRIOR FILING DATE: 2002-03-07
;  NUMBER OF SEQ ID NOS: 866
;  SOFTWARE: PatentIn 3.2
; SEQ ID NO 104
;   LENGTH: 3460
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-505-928-104

  Query Match             58.6%;  Score 34;  DB 8;  Length 3460;
  Best Local Similarity   75.0%;  Pred. No. 7.8e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;
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Qy          1 HYNIVTFC 8
              | | ||||
Db        236 HGNAVTFC 243


RESULT 42
US-09-978-360A-549
; Sequence 549, Application US/09978360A
; Publication No. US20060009633A9
; GENERAL INFORMATION:
;  APPLICANT: Edwards, Jean-Baptiste Dumas Milne
;  APPLICANT:  Duclert, Aymeric
;  APPLICANT:  Bougueleret, Lydie
;  APPLICANT:  Jobert, Severin
;  APPLICANT:  Clusel, Catherine
;  TITLE OF INVENTION: Complementary DNA's Encoding Proteins with Signal Peptides
;  FILE REFERENCE: 56.US4.CIP
;  CURRENT APPLICATION NUMBER: US/09/978,360A
;  CURRENT FILING DATE:  2001-10-15
;  PRIOR APPLICATION NUMBER: US 60/066,677
;  PRIOR FILING DATE: 1997-11-13
;  PRIOR APPLICATION NUMBER: US 60/069,957
;  PRIOR FILING DATE: 1997-12-17
;  PRIOR APPLICATION NUMBER: US 60/074,121
;  PRIOR FILING DATE: 1998-02-09
;  PRIOR APPLICATION NUMBER: US 60/081,563
;  PRIOR FILING DATE: 1998-04-13
;  PRIOR APPLICATION NUMBER: US 60/096,116
;  PRIOR FILING DATE: 1998-08-10
;  PRIOR APPLICATION NUMBER: US 60/099,273
;  PRIOR FILING DATE: -09-04
;  PRIOR APPLICATION NUMBER: US 09/191,997
;  PRIOR FILING DATE: 1998-11-13
;  PRIOR APPLICATION NUMBER: US 09/215,435
;  PRIOR FILING DATE: 1998-12-17
;  PRIOR APPLICATION NUMBER: PCT/IB98/02122
;  PRIOR FILING DATE: 1998-12-17
;  PRIOR APPLICATION NUMBER: US 09/247,155
;  PRIOR FILING DATE: 1999-02-09
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 810
;  SOFTWARE: Patent.pm
; SEQ ID NO 549
;   LENGTH: 36
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-978-360A-549

  Query Match             56.9%;  Score 33;  DB 7;  Length 36;
  Best Local Similarity   57.1%;  Pred. No. 20;
  Matches    4;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYNIVTF 7
              |:|::||
Db         23 HFNLITF 29


RESULT 43
US-11-096-568A-8617
; Sequence 8617, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 8617
;   LENGTH: 108
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(108)
;   OTHER INFORMATION: Ceres Seq. ID no. 15168883
US-11-096-568A-8617

  Query Match             56.9%;  Score 33;  DB 11;  Length 108;
  Best Local Similarity   62.5%;  Pred. No. 54;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 YNIVTFCC 9
              ||  :|||
Db         41 YNPSSFCC 48


RESULT 44
US-11-096-568A-8616
; Sequence 8616, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 8616
;   LENGTH: 112
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(112)
;   OTHER INFORMATION: Ceres Seq. ID no. 15168882
US-11-096-568A-8616

  Query Match             56.9%;  Score 33;  DB 11;  Length 112;
  Best Local Similarity   62.5%;  Pred. No. 56;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 YNIVTFCC 9
              ||  :|||
Db         45 YNPSSFCC 52


RESULT 45
US-11-096-568A-8615
; Sequence 8615, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 8615
;   LENGTH: 122
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(122)
;   OTHER INFORMATION: Ceres Seq. ID no. 15168881
US-11-096-568A-8615

  Query Match             56.9%;  Score 33;  DB 11;  Length 122;
  Best Local Similarity   62.5%;  Pred. No. 60;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;
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Db         55 YNPSSFCC 62


RESULT 46
US-10-506-454-455
; Sequence 455, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
;  APPLICANT: Slesarev, Alexi I
;  APPLICANT:  Mezhevaya, Katja V
;  APPLICANT:  Polushin, Nikolai N
;  APPLICANT:  Shcherbinina, Olga V
;  APPLICANT:  Shakhova, Vera V
;  APPLICANT:  Malykh, Andrei G
;  APPLICANT:  Kozyavkin, Sergei A
;  TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
;  TITLE OF INVENTION:  Methanopyrus Kandleri AV19 and Monophyly of Archael Methanogens
;  TITLE OF INVENTION:  and Methods of Use Thereof
;  FILE REFERENCE: FID001
;  CURRENT APPLICATION NUMBER: US/10/506,454
;  CURRENT FILING DATE:  2004-08-31
;  PRIOR APPLICATION NUMBER: PCT/US03/06664
;  PRIOR FILING DATE: 2003-03-04
;  PRIOR APPLICATION NUMBER: 60/361,742
;  PRIOR FILING DATE: 2002-03-04
;  NUMBER OF SEQ ID NOS: 1722
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 455
;   LENGTH: 140
;   TYPE: PRT
;   ORGANISM: Methanopyrus kandleri
US-10-506-454-455

  Query Match             56.9%;  Score 33;  DB 9;  Length 140;
  Best Local Similarity   62.5%;  Pred. No. 68;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

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Db         18 HYNRITAC 25


RESULT 47
US-10-194-487-426
; Sequence 426, Application US/10194487
; Publication No. US20060074226A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Chen,Jian
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Pan,James
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  APPLICANT:  Zhang,Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3430R1C312
;  CURRENT APPLICATION NUMBER: US/10/194,487
;  CURRENT FILING DATE:  2002-07-12
;  PRIOR APPLICATION NUMBER: 10/052586
;  PRIOR FILING DATE: 2002-01-15
;  PRIOR APPLICATION NUMBER: 60/059263
;  PRIOR FILING DATE: 1997-09-18
;  PRIOR APPLICATION NUMBER: 60/059266
;  PRIOR FILING DATE: 1997-09-18
;  PRIOR APPLICATION NUMBER: 60/062250
;  PRIOR FILING DATE: 1997-10-17
;  PRIOR APPLICATION NUMBER: 60/063120
;  PRIOR FILING DATE: 1997-10-24
;  PRIOR APPLICATION NUMBER: 60/063121
;  PRIOR FILING DATE: 1997-10-24
;  PRIOR APPLICATION NUMBER: 60/063486
;  PRIOR FILING DATE: 1997-10-21
;  PRIOR APPLICATION NUMBER: 60/063540
;  PRIOR FILING DATE: 1997-10-28
;  PRIOR APPLICATION NUMBER: 60/063541
;  PRIOR FILING DATE: 1997-10-28
;  PRIOR APPLICATION NUMBER: 60/063544
;  PRIOR FILING DATE: 1997-10-28
;  Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 426
;   LENGTH: 187
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-194-487-426

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  Best Local Similarity   44.4%;  Pred. No. 88;
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Db         78 HFNVLAFPC 86


RESULT 48
US-10-195-883-426
; Sequence 426, Application US/10195883
; Publication No. US20060073544A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Chen,Jian
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Pan,James
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  APPLICANT:  Zhang,Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3430R1C323
;  CURRENT APPLICATION NUMBER: US/10/195,883
;  CURRENT FILING DATE:  2002-07-15
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 426
;   LENGTH: 187
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-195-883-426

  Query Match             56.9%;  Score 33;  DB 9;  Length 187;
  Best Local Similarity   44.4%;  Pred. No. 88;
  Matches    4;  Conservative    3;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |:|:: | |
Db         78 HFNVLAFPC 86


RESULT 49
US-10-195-888-426
; Sequence 426, Application US/10195888
; Publication No. US20060073545A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
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;  APPLICANT:  Chen,Jian
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Pan,James
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  APPLICANT:  Zhang,Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3430R1C324
;  CURRENT APPLICATION NUMBER: US/10/195,888
;  CURRENT FILING DATE:  2002-07-15
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 426
;   LENGTH: 187
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-195-888-426

  Query Match             56.9%;  Score 33;  DB 9;  Length 187;
  Best Local Similarity   44.4%;  Pred. No. 88;
  Matches    4;  Conservative    3;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
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Db         78 HFNVLAFPC 86


RESULT 50
US-10-195-889-426
; Sequence 426, Application US/10195889
; Publication No. US20060074227A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Chen,Jian
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Pan,James
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  APPLICANT:  Zhang,Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3430R1C329
;  CURRENT APPLICATION NUMBER: US/10/195,889
;  CURRENT FILING DATE:  2002-07-15
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 426
;   LENGTH: 187
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-195-889-426

  Query Match             56.9%;  Score 33;  DB 9;  Length 187;
  Best Local Similarity   44.4%;  Pred. No. 88;
  Matches    4;  Conservative    3;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 HYNIVTFCC 9
              |:|:: | |
Db         78 HFNVLAFPC 86


Search completed: May  5, 2006, 07:56:46
Job time : 10.4 secs
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# STIC Search Report
## Biotech-Chem Library

STIC Database Tracking Number: 188266

| TO: | From: |
|---|---|
| Nita M Minnifield<br>Location: rem-3c01/3c18<br>Art Unit: 1645<br>Wednesday, May 10, 2006<br>Case Serial Number: 08/170344 | Kristine Hensle<br>Location: Biotech-Chem Library<br>REM-1B69<br>Phone: (571)272-4161<br><br>Kristine.Hensle@uspto.gov |

## Search Notes

Examiner Minnifield,

See attached results. This packet is part 7 of 8.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Kristine Hensle
Librarian
STIC Biotech/Chem Library
(571)272-4161

Reviewed
5/11/06
MM

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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 04:01:20 ; Search time 20.7 Seconds
(without alignments)
35.946 Million cell updates/sec

Title: US-08-170-344-60
Perfect score: 55
Sequence: 1 YNIVTFCCK 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/1/iaa/5_COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/6_COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/H_COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/RE_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 2 | 55 | 100.0 | 13 | 2 | US-08-075-541D-28 | Sequence 28, Appl |
| 3 | 55 | 100.0 | 14 | 2 | US-08-075-541D-29 | Sequence 29, Appl |
| 4 | 55 | 100.0 | 15 | 2 | US-08-075-541D-18 | Sequence 18, Appl |
| 5 | 55 | 100.0 | 17 | 2 | US-08-075-541D-25 | Sequence 25, Appl |
| 6 | 55 | 100.0 | 17 | 2 | US-09-980-523A-16 | Sequence 16, Appl |
| 7 | 55 | 100.0 | 18 | 2 | US-08-075-541D-30 | Sequence 30, Appl |
| 8 | 55 | 100.0 | 19 | 2 | US-08-075-541D-3 | Sequence 3, Appli |
| 9 | 55 | 100.0 | 20 | 1 | US-08-934-915-48 | Sequence 48, Appl |
| 10 | 55 | 100.0 | 20 | 1 | US-08-934-915-155 | Sequence 155, App |
| 11 | 55 | 100.0 | 20 | 2 | US-08-075-541D-10 | Sequence 10, Appl |
| 12 | 55 | 100.0 | 20 | 2 | US-09-980-177A-73 | Sequence 73, Appl |
| 13 | 55 | 100.0 | 25 | 2 | US-08-075-541D-47 | Sequence 47, Appl |
| 14 | 55 | 100.0 | 26 | 2 | US-08-075-541D-20 | Sequence 20, Appl |
| 15 | 55 | 100.0 | 30 | 1 | US-08-934-915-52 | Sequence 52, Appl |
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| 17 | 55 | 100.0 | 32 | 2 | US-08-075-541D-7 | Sequence 7, Appli |
| 18 | 55 | 100.0 | 32 | 2 | US-08-075-541D-8 | Sequence 8, Appli |
| 19 | 55 | 100.0 | 38 | 2 | US-09-501-097A-6 | Sequence 6, Appli |
| 20 | 55 | 100.0 | 98 | 1 | US-08-406-248-6 | Sequence 6, Appli |
| 21 | 55 | 100.0 | 98 | 2 | US-08-075-541D-42 | Sequence 42, Appl |
| 22 | 55 | 100.0 | 98 | 2 | US-09-382-616A-1 | Sequence 1, Appli |
| 23 | 55 | 100.0 | 98 | 2 | US-08-944-368A-4 | Sequence 4, Appli |
| 24 | 55 | 100.0 | 98 | 2 | US-09-820-764-4 | Sequence 4, Appli |
| 25 | 55 | 100.0 | 98 | 2 | US-09-613-303-8 | Sequence 8, Appli |
| 26 | 55 | 100.0 | 98 | 2 | US-09-566-420-19 | Sequence 19, Appl |
| 27 | 55 | 100.0 | 98 | 2 | US-09-986-118A-4 | Sequence 4, Appli |
| 28 | 55 | 100.0 | 98 | 2 | US-09-728-466-1 | Sequence 1, Appli |
| 29 | 55 | 100.0 | 98 | 2 | US-09-824-017-4 | Sequence 4, Appli |
| 30 | 55 | 100.0 | 98 | 2 | US-10-267-311-8 | Sequence 8, Appli |
| 31 | 55 | 100.0 | 98 | 2 | US-10-201-764-19 | Sequence 19, Appl |
| 32 | 55 | 100.0 | 98 | 2 | US-09-637-746-3 | Sequence 3, Appli |
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| 35 | 55 | 100.0 | 121 | 2 | US-09-613-303-12 | Sequence 12, Appl |
| 36 | 55 | 100.0 | 121 | 2 | US-10-267-311-12 | Sequence 12, Appl |
| 37 | 55 | 100.0 | 172 | 2 | US-08-860-165-12 | Sequence 12, Appl |
| 38 | 55 | 100.0 | 172 | 2 | US-08-860-165-14 | Sequence 14, Appl |
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| 41 | 55 | 100.0 | 185 | 2 | US-09-462-993-2 | Sequence 2, Appli |
| 42 | 55 | 100.0 | 198 | 2 | US-09-613-303-35 | Sequence 35, Appl |
| 43 | 55 | 100.0 | 198 | 2 | US-10-267-311-35 | Sequence 35, Appl |
| 44 | 55 | 100.0 | 220 | 2 | US-09-485-885-1 | Sequence 1, Appli |
| 45 | 55 | 100.0 | 220 | 2 | US-09-485-885-8 | Sequence 8, Appli |
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| 47 | 55 | 100.0 | 253 | 1 | US-08-459-818-20 | Sequence 20, Appl |
| 48 | 55 | 100.0 | 253 | 1 | US-08-889-666-20 | Sequence 20, Appl |
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| 52 | 55 | 100.0 | 263 | 1 | US-08-117-083-9 | Sequence 9, Appli |
| 53 | 55 | 100.0 | 266 | 2 | US-08-860-165-10 | Sequence 10, Appl |
| 54 | 55 | 100.0 | 266 | 2 | US-09-359-382-10 | Sequence 10, Appl |
| 55 | 55 | 100.0 | 266 | 2 | US-09-367-309A-1 | Sequence 1, Appli |
| 56 | 55 | 100.0 | 287 | 2 | US-09-501-097A-25 | Sequence 25, Appl |
| 57 | 55 | 100.0 | 295 | 2 | US-09-613-303-33 | Sequence 33, Appl |
| 58 | 55 | 100.0 | 295 | 2 | US-10-267-311-33 | Sequence 33, Appl |
| 59 | 55 | 100.0 | 324 | 2 | US-09-613-303-25 | Sequence 25, Appl |
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| 62 | 55 | 100.0 | 390 | 2 | US-09-485-885-14 | Sequence 14, Appl |
| 63 | 55 | 100.0 | 420 | 2 | US-09-501-097A-22 | Sequence 22, Appl |
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| 65 | 55 | 100.0 | 493 | 2 | US-10-267-311-19 | Sequence 19, Appl |
| 66 | 55 | 100.0 | 639 | 2 | US-09-613-303-17 | Sequence 17, Appl |
| 67 | 55 | 100.0 | 639 | 2 | US-10-267-311-17 | Sequence 17, Appl |
| 68 | 55 | 100.0 | 641 | 2 | US-09-613-303-51 | Sequence 51, Appl |
| 69 | 55 | 100.0 | 641 | 2 | US-10-267-311-51 | Sequence 51, Appl |
| 70 | 55 | 100.0 | 647 | 2 | US-09-613-303-53 | Sequence 53, Appl |
| 71 | 55 | 100.0 | 647 | 2 | US-10-267-311-53 | Sequence 53, Appl |
| 72 | 55 | 100.0 | 648 | 2 | US-09-613-303-29 | Sequence 29, Appl |
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| 74 | 55 | 100.0 | 711 | 2 | US-09-613-303-41 | Sequence 41, Appl |
| 75 | 55 | 100.0 | 711 | 2 | US-10-267-311-41 | Sequence 41, Appl |
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| 77 | 55 | 100.0 | 724 | 2 | US-09-613-303-45 | Sequence 45, Appl |
| 78 | 55 | 100.0 | 724 | 2 | US-10-267-311-45 | Sequence 45, Appl |
| 79 | 50 | 90.9 | 9 | 2 | US-10-365-908-9 | Sequence 9, Appli |
| 80 | 42 | 76.4 | 9 | 2 | US-08-075-541D-26 | Sequence 26, Appl |
| 81 | 42 | 76.4 | 19 | 2 | US-08-075-541D-38 | Sequence 38, Appl |
| 82 | 41 | 74.5 | 9 | 2 | US-10-365-908-40 | Sequence 40, Appl |
| 83 | 41 | 74.5 | 14 | 2 | US-08-075-541D-56 | Sequence 56, Appl |
| 84 | 38 | 69.1 | 79 | 1 | US-08-154-916-13 | Sequence 13, Appl |
| 85 | 38 | 69.1 | 1156 | 2 | US-08-996-083-1 | Sequence 1, Appli |
| 86 | 38 | 69.1 | 1156 | 2 | US-09-429-516-1 | Sequence 1, Appli |
| 87 | 38 | 69.1 | 1156 | 2 | US-09-429-516-3 | Sequence 3, Appli |
| 88 | 37 | 67.3 | 9 | 2 | US-08-159-339A-231 | Sequence 231, App |
| 89 | 37 | 67.3 | 156 | 2 | US-09-134-001C-4448 | Sequence 4448, Ap |
| 90 | 37 | 67.3 | 267 | 2 | US-09-270-767-39631 | Sequence 39631, A |
| 91 | 37 | 67.3 | 267 | 2 | US-09-270-767-54848 | Sequence 54848, A |
| 92 | 36 | 65.5 | 9 | 2 | US-10-365-908-59 | Sequence 59, Appl |
| 93 | 36 | 65.5 | 149 | 2 | US-09-303-518D-822 | Sequence 822, App |
| 94 | 36 | 65.5 | 149 | 2 | US-09-303-518D-824 | Sequence 824, App |
| 95 | 36 | 65.5 | 149 | 2 | US-09-303-518D-826 | Sequence 826, App |
| 96 | 36 | 65.5 | 150 | 2 | US-09-270-767-57218 | Sequence 57218, A |
| 97 | 36 | 65.5 | 150 | 2 | US-09-303-518D-820 | Sequence 820, App |
| 98 | 36 | 65.5 | 180 | 2 | US-09-270-767-61919 | Sequence 61919, A |
| 99 | 36 | 65.5 | 326 | 2 | US-09-270-767-41964 | Sequence 41964, A |
| 100 | 36 | 65.5 | 601 | 1 | US-08-606-288-7 | Sequence 7, Appli |

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| 101 | 36 | 65.5 | 601 | 1 | US-08-606-288-10 | Sequence 10, Appl |
| 102 | 36 | 65.5 | 601 | 2 | US-09-347-483-7 | Sequence 7, Appli |
| 103 | 36 | 65.5 | 601 | 2 | US-09-347-483-10 | Sequence 10, Appl |
| 104 | 35 | 63.6 | 75 | 2 | US-09-621-976-6163 | Sequence 6163, Ap |
| 105 | 35 | 63.6 | 80 | 2 | US-09-270-767-37076 | Sequence 37076, A |
| 106 | 35 | 63.6 | 80 | 2 | US-09-270-767-52293 | Sequence 52293, A |
| 107 | 35 | 63.6 | 289 | 2 | US-09-270-767-46018 | Sequence 46018, A |
| 108 | 35 | 63.6 | 350 | 1 | US-08-966-316-16 | Sequence 16, Appl |
| 109 | 35 | 63.6 | 350 | 1 | US-08-966-316-18 | Sequence 18, Appl |
| 110 | 35 | 63.6 | 350 | 2 | US-09-556-002-2 | Sequence 2, Appli |
| 111 | 35 | 63.6 | 350 | 2 | US-09-721-908-2 | Sequence 2, Appli |
| 112 | 35 | 63.6 | 350 | 2 | US-09-910-695-8 | Sequence 8, Appli |
| 113 | 35 | 63.6 | 350 | 2 | US-09-721-341-2 | Sequence 2, Appli |
| 114 | 35 | 63.6 | 350 | 2 | US-09-721-495B-2 | Sequence 2, Appli |
| 115 | 35 | 63.6 | 350 | 2 | US-09-875-076-22 | Sequence 22, Appl |
| 116 | 35 | 63.6 | 585 | 2 | US-09-270-767-56754 | Sequence 56754, A |
| 117 | 35 | 63.6 | 769 | 2 | US-09-270-767-41530 | Sequence 41530, A |
| 118 | 34 | 61.8 | 10 | 2 | US-10-365-908-8 | Sequence 8, Appli |
| 119 | 34 | 61.8 | 20 | 2 | US-09-980-177A-74 | Sequence 74, Appl |
| 120 | 34 | 61.8 | 72 | 2 | US-09-583-110-4345 | Sequence 4345, Ap |
| 121 | 34 | 61.8 | 80 | 2 | US-09-107-433-4711 | Sequence 4711, Ap |
| 122 | 34 | 61.8 | 88 | 2 | US-09-107-532A-6476 | Sequence 6476, Ap |
| 123 | 34 | 61.8 | 89 | 2 | US-09-949-016-9298 | Sequence 9298, Ap |
| 124 | 34 | 61.8 | 157 | 2 | US-09-270-767-58745 | Sequence 58745, A |
| 125 | 34 | 61.8 | 168 | 2 | US-09-107-532A-4398 | Sequence 4398, Ap |
| 126 | 34 | 61.8 | 200 | 2 | US-09-270-767-35928 | Sequence 35928, A |
| 127 | 34 | 61.8 | 200 | 2 | US-09-270-767-51145 | Sequence 51145, A |
| 128 | 34 | 61.8 | 310 | 2 | US-09-270-767-43396 | Sequence 43396, A |
| 129 | 33 | 60.0 | 9 | 2 | US-10-365-908-111 | Sequence 111, App |
| 130 | 33 | 60.0 | 49 | 2 | US-09-270-767-40589 | Sequence 40589, A |
| 131 | 33 | 60.0 | 49 | 2 | US-09-270-767-55805 | Sequence 55805, A |
| 132 | 33 | 60.0 | 51 | 2 | US-09-740-510-2 | Sequence 2, Appli |
| 133 | 33 | 60.0 | 61 | 2 | US-09-583-110-3698 | Sequence 3698, Ap |
| 134 | 33 | 60.0 | 61 | 2 | US-09-583-110-4423 | Sequence 4423, Ap |
| 135 | 33 | 60.0 | 62 | 2 | US-08-855-531D-29 | Sequence 29, Appl |
| 136 | 33 | 60.0 | 62 | 2 | US-08-855-526B-29 | Sequence 29, Appl |
| 137 | 33 | 60.0 | 87 | 2 | US-09-107-532A-6467 | Sequence 6467, Ap |
| 138 | 33 | 60.0 | 107 | 2 | US-09-489-039A-8376 | Sequence 8376, Ap |
| 139 | 33 | 60.0 | 109 | 2 | US-09-270-767-34472 | Sequence 34472, A |
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| 408 | 30 | 54.5 | 74 | 2 | US-09-248-796A-22866 | Sequence 22866, A |
| 409 | 30 | 54.5 | 77 | 2 | US-09-270-767-33952 | Sequence 33952, A |
| 410 | 30 | 54.5 | 77 | 2 | US-09-270-767-49169 | Sequence 49169, A |
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| 413 | 30 | 54.5 | 109 | 2 | US-09-013-780-2 | Sequence 2, Appli |
| 414 | 30 | 54.5 | 124 | 2 | US-09-270-767-62168 | Sequence 62168, A |
| 415 | 30 | 54.5 | 124 | 2 | US-09-893-737-316 | Sequence 316, App |
| 416 | 30 | 54.5 | 124 | 2 | US-10-181-642-16 | Sequence 16, Appl |
| 417 | 30 | 54.5 | 139 | 2 | US-09-543-681A-4705 | Sequence 4705, Ap |
| 418 | 30 | 54.5 | 139 | 2 | US-09-270-767-35700 | Sequence 35700, A |
| 419 | 30 | 54.5 | 139 | 2 | US-09-270-767-50917 | Sequence 50917, A |
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| 422 | 30 | 54.5 | 150 | 2 | US-09-270-767-32361 | Sequence 32361, A |
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| 424 | 30 | 54.5 | 152 | 2 | US-09-270-767-53889 | Sequence 53889, A |
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| 439 | 30 | 54.5 | 254 | 2 | US-09-438-185A-690 | Sequence 690, App |
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| 458 | 30 | 54.5 | 383 | 2 | US-09-949-016-11050 | Sequence 11050, A |
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| 460 | 30 | 54.5 | 420 | 2 | US-09-684-855-120 | Sequence 120, App |
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| 485 | 30 | 54.5 | 813 | 2 | US-09-457-571-8 | Sequence 8, Appli |
| 486 | 30 | 54.5 | 816 | 2 | US-10-104-047-2050 | Sequence 2050, Ap |
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| 489 | 30 | 54.5 | 1765 | 2 | US-09-354-147C-2 | Sequence 2, Appli |
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| 530 | 29 | 52.7 | 84 | 2 | US-09-749-637A-158 | Sequence 158, App |
| 531 | 29 | 52.7 | 84 | 2 | US-09-749-637A-363 | Sequence 363, App |
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| 537 | 29 | 52.7 | 102 | 2 | US-09-702-705-1675 | Sequence 1675, Ap |
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| 542 | 29 | 52.7 | 102 | 2 | US-09-651-563-1675 | Sequence 1675, Ap |
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| 641 | 29 | 52.7 | 465 | 2 | US-09-272-796-18 | Sequence 18, Appl |
| 642 | 29 | 52.7 | 465 | 2 | US-09-771-161A-271 | Sequence 271, App |
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| 650 | 29 | 52.7 | 531 | 2 | US-09-270-767-36603 | Sequence 36603, A |
| 651 | 29 | 52.7 | 531 | 2 | US-09-270-767-51820 | Sequence 51820, A |
| 652 | 29 | 52.7 | 533 | 2 | US-09-549-519-32 | Sequence 32, Appl |
| 653 | 29 | 52.7 | 580 | 2 | US-08-906-865-1 | Sequence 1, Appli |
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| 656 | 29 | 52.7 | 582 | 2 | US-09-721-870-179 | Sequence 179, App |
| 657 | 29 | 52.7 | 584 | 2 | US-09-911-909B-14 | Sequence 14, Appl |
| 658 | 29 | 52.7 | 592 | 2 | US-09-538-092-1024 | Sequence 1024, Ap |
| 659 | 29 | 52.7 | 592 | 2 | US-09-949-016-6123 | Sequence 6123, Ap |
| 660 | 29 | 52.7 | 608 | 2 | US-09-489-039A-11209 | Sequence 11209, A |
| 661 | 29 | 52.7 | 671 | 2 | US-09-708-426-11 | Sequence 11, Appl |
| 662 | 29 | 52.7 | 672 | 2 | US-09-270-767-41044 | Sequence 41044, A |
| 663 | 29 | 52.7 | 672 | 2 | US-09-270-767-56260 | Sequence 56260, A |
| 664 | 29 | 52.7 | 712 | 2 | US-09-270-767-36263 | Sequence 36263, A |
| 665 | 29 | 52.7 | 712 | 2 | US-09-270-767-51480 | Sequence 51480, A |
| 666 | 29 | 52.7 | 723 | 2 | US-09-425-335-5 | Sequence 5, Appli |
| 667 | 29 | 52.7 | 727 | 2 | US-09-543-681A-7968 | Sequence 7968, Ap |
| 668 | 29 | 52.7 | 733 | 2 | US-09-270-767-44442 | Sequence 44442, A |
| 669 | 29 | 52.7 | 734 | 2 | US-09-894-998A-26 | Sequence 26, Appl |
| 670 | 29 | 52.7 | 734 | 2 | US-10-237-551-26 | Sequence 26, Appl |
| 671 | 29 | 52.7 | 737 | 2 | US-09-291-922-8 | Sequence 8, Appli |
| 672 | 29 | 52.7 | 747 | 2 | US-09-999-833A-459 | Sequence 459, App |
| 673 | 29 | 52.7 | 747 | 2 | US-10-020-445A-459 | Sequence 459, App |
| 674 | 29 | 52.7 | 770 | 2 | US-09-245-248B-31 | Sequence 31, Appl |
| 675 | 29 | 52.7 | 770 | 2 | US-10-781-599-9 | Sequence 9, Appli |
| 676 | 29 | 52.7 | 770 | 2 | US-10-104-047-2533 | Sequence 2533, Ap |
| 677 | 29 | 52.7 | 788 | 1 | US-08-346-455B-36 | Sequence 36, Appl |
| 678 | 29 | 52.7 | 788 | 2 | US-08-977-221-36 | Sequence 36, Appl |
| 679 | 29 | 52.7 | 788 | 2 | US-09-483-831B-36 | Sequence 36, Appl |
| 680 | 29 | 52.7 | 788 | 4 | PCT-US95-06613-36 | Sequence 36, Appl |
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| 688 | 29 | 52.7 | 979 | 2 | US-08-977-221-38 | Sequence 38, Appl |
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| 698 | 29 | 52.7 | 1199 | 2 | US-10-147-268-4 | Sequence 4, Appli |
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| 702 | 29 | 52.7 | 1220 | 2 | US-09-173-891-43 | Sequence 43, Appl |
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| 705 | 29 | 52.7 | 1245 | 1 | US-08-611-928-8 | Sequence 8, Appli |
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| 710 | 29 | 52.7 | 1319 | 2 | US-09-462-136-4 | Sequence 4, Appli |
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| 717 | 29 | 52.7 | 3174 | 1 | US-08-477-451-3 | Sequence 3, Appli |
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| 724 | 28 | 50.9 | 14 | 2 | US-09-972-484-37 | Sequence 37, Appl |
| 725 | 28 | 50.9 | 25 | 2 | US-09-201-227A-32 | Sequence 32, Appl |
| 726 | 28 | 50.9 | 25 | 2 | US-09-084-303B-228 | Sequence 228, App |
| 727 | 28 | 50.9 | 25 | 2 | US-09-084-303B-246 | Sequence 246, App |
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| 733 | 28 | 50.9 | 30 | 1 | US-08-487-174-35 | Sequence 35, Appl |
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| 737 | 28 | 50.9 | 30 | 2 | US-09-973-278-394 | Sequence 394, App |
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| 740 | 28 | 50.9 | 38 | 1 | US-08-487-174-25 | Sequence 25, Appl |
| 741 | 28 | 50.9 | 38 | 1 | US-08-480-750-25 | Sequence 25, Appl |
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| 745 | 28 | 50.9 | 42 | 1 | US-08-487-174-56 | Sequence 56, Appl |
| 746 | 28 | 50.9 | 42 | 1 | US-08-480-750-56 | Sequence 56, Appl |
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| 748 | 28 | 50.9 | 42 | 2 | US-09-621-011-153 | Sequence 153, App |
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| 752 | 28 | 50.9 | 51 | 2 | US-09-574-443-22 | Sequence 22, Appl |
| 753 | 28 | 50.9 | 51 | 2 | US-09-574-443-23 | Sequence 23, Appl |
| 754 | 28 | 50.9 | 52 | 2 | US-10-178-213-288 | Sequence 288, App |
| 755 | 28 | 50.9 | 56 | 2 | US-09-227-357-361 | Sequence 361, App |
| 756 | 28 | 50.9 | 56 | 2 | US-09-973-278-393 | Sequence 393, App |
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| 771 | 28 | 50.9 | 69 | 1 | US-08-480-750-40 | Sequence 40, Appl |
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| 776 | 28 | 50.9 | 79 | 2 | US-09-543-681A-6837 | Sequence 6837, Ap |
| 777 | 28 | 50.9 | 80 | 1 | US-08-137-800-41 | Sequence 41, Appl |
| 778 | 28 | 50.9 | 80 | 1 | US-08-477-383-41 | Sequence 41, Appl |
| 779 | 28 | 50.9 | 80 | 1 | US-08-487-174-41 | Sequence 41, Appl |
| 780 | 28 | 50.9 | 80 | 1 | US-08-480-750-41 | Sequence 41, Appl |
| 781 | 28 | 50.9 | 80 | 2 | US-09-107-433-2720 | Sequence 2720, Ap |
| 782 | 28 | 50.9 | 82 | 2 | US-09-091-590A-3 | Sequence 3, Appli |
| 783 | 28 | 50.9 | 82 | 2 | US-10-178-213-287 | Sequence 287, App |
| 784 | 28 | 50.9 | 84 | 2 | US-09-248-796A-26735 | Sequence 26735, A |
| 785 | 28 | 50.9 | 85 | 2 | US-09-489-039A-13638 | Sequence 13638, A |
| 786 | 28 | 50.9 | 86 | 2 | US-09-270-767-47444 | Sequence 47444, A |
| 787 | 28 | 50.9 | 86 | 2 | US-09-270-767-56982 | Sequence 56982, A |
| 788 | 28 | 50.9 | 87 | 2 | US-09-270-767-60167 | Sequence 60167, A |
| 789 | 28 | 50.9 | 92 | 2 | US-09-201-227A-41 | Sequence 41, Appl |
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| 821 | 28 | 50.9 | 148 | 2 | US-09-270-767-33981 | Sequence 33981, A |
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| 841 | 28 | 50.9 | 203 | 2 | US-09-972-484-11 | Sequence 11, Appl |
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| 856 | 28 | 50.9 | 227 | 2 | US-09-248-796A-16643 | Sequence 16643, A |
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| 884 | 28 | 50.9 | 280 | 1 | US-08-477-733B-23 | Sequence 23, Appl |
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| 887 | 28 | 50.9 | 280 | 2 | US-08-770-974-23 | Sequence 23, Appl |
| 888 | 28 | 50.9 | 280 | 2 | US-08-770-981-23 | Sequence 23, Appl |
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| 897 | 28 | 50.9 | 281 | 2 | US-09-032-337-10 | Sequence 10, Appl |
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| 899 | 28 | 50.9 | 282 | 2 | US-09-270-767-47193 | Sequence 47193, A |
| 900 | 28 | 50.9 | 284 | 2 | US-09-328-352-4684 | Sequence 4684, Ap |
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| 902 | 28 | 50.9 | 293 | 2 | US-09-710-279-626 | Sequence 626, App |
| 903 | 28 | 50.9 | 293 | 2 | US-09-710-279-2602 | Sequence 2602, Ap |
| 904 | 28 | 50.9 | 295 | 2 | US-09-543-681A-6570 | Sequence 6570, Ap |
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| 941 | 28 | 50.9 | 331 | 2 | US-09-166-205B-70 | Sequence 70, Appl |
| 942 | 28 | 50.9 | 331 | 2 | US-09-806-658-11 | Sequence 11, Appl |
| 943 | 28 | 50.9 | 331 | 2 | US-09-806-658-12 | Sequence 12, Appl |
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| 951 | 28 | 50.9 | 344 | 2 | US-09-270-767-41710 | Sequence 41710, A |
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| 956 | 28 | 50.9 | 353 | 2 | US-09-949-016-8487 | Sequence 8487, Ap |
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| 958 | 28 | 50.9 | 355 | 2 | US-08-875-811-41 | Sequence 41, Appl |
| 959 | 28 | 50.9 | 355 | 2 | US-08-875-811-49 | Sequence 49, Appl |
| 960 | 28 | 50.9 | 355 | 2 | US-08-875-811-64 | Sequence 64, Appl |
| 961 | 28 | 50.9 | 358 | 2 | US-08-875-811-45 | Sequence 45, Appl |
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| 963 | 28 | 50.9 | 360 | 2 | US-08-875-811-47 | Sequence 47, Appl |
| 964 | 28 | 50.9 | 361 | 1 | US-08-415-751-37 | Sequence 37, Appl |
| 965 | 28 | 50.9 | 367 | 2 | US-09-166-205B-68 | Sequence 68, Appl |
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| 967 | 28 | 50.9 | 367 | 2 | US-09-949-016-11344 | Sequence 11344, A |
| 968 | 28 | 50.9 | 369 | 2 | US-09-270-767-60194 | Sequence 60194, A |
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| 972 | 28 | 50.9 | 378 | 2 | US-10-123-058-2 | Sequence 2, Appli |
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| 976 | 28 | 50.9 | 378 | 2 | US-10-313-332-1 | Sequence 1, Appli |

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| 977 | 28 | 50.9 | 378 | 2 | US-10-313-332-3 | Sequence 3, Appli |
| 978 | 28 | 50.9 | 379 | 2 | US-08-875-811-43 | Sequence 43, Appl |
| 979 | 28 | 50.9 | 379 | 2 | US-09-252-991A-26357 | Sequence 26357, A |
| 980 | 28 | 50.9 | 383 | 2 | US-09-107-532A-5773 | Sequence 5773, Ap |
| 981 | 28 | 50.9 | 385 | 1 | US-08-118-270-31 | Sequence 31, Appl |
| 982 | 28 | 50.9 | 385 | 4 | PCT-US93-08528-31 | Sequence 31, Appl |
| 983 | 28 | 50.9 | 397 | 2 | US-09-489-039A-12465 | Sequence 12465, A |
| 984 | 28 | 50.9 | 404 | 2 | US-09-491-577-80 | Sequence 80, Appl |
| 985 | 28 | 50.9 | 414 | 2 | US-09-354-123-8 | Sequence 8, Appli |
| 986 | 28 | 50.9 | 418 | 2 | US-09-270-767-39554 | Sequence 39554, A |
| 987 | 28 | 50.9 | 418 | 2 | US-09-270-767-54771 | Sequence 54771, A |
| 988 | 28 | 50.9 | 420 | 1 | US-08-466-103A-2 | Sequence 2, Appli |
| 989 | 28 | 50.9 | 424 | 2 | US-09-252-991A-16822 | Sequence 16822, A |
| 990 | 28 | 50.9 | 431 | 2 | US-10-104-047-3894 | Sequence 3894, Ap |
| 991 | 28 | 50.9 | 437 | 2 | US-09-350-841A-1584 | Sequence 1584, Ap |
| 992 | 28 | 50.9 | 438 | 2 | US-08-486-099-93 | Sequence 93, Appl |
| 993 | 28 | 50.9 | 438 | 2 | US-08-360-107A-103 | Sequence 103, App |
| 994 | 28 | 50.9 | 438 | 2 | US-08-484-223B-93 | Sequence 93, Appl |
| 995 | 28 | 50.9 | 438 | 2 | US-08-919-597-93 | Sequence 93, Appl |
| 996 | 28 | 50.9 | 438 | 2 | US-08-475-668A-93 | Sequence 93, Appl |
| 997 | 28 | 50.9 | 438 | 2 | US-08-485-551A-93 | Sequence 93, Appl |
| 998 | 28 | 50.9 | 438 | 2 | US-08-471-913A-93 | Sequence 93, Appl |
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ALIGNMENTS

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RESULT 1
US-08-075-541D-27
; Sequence 27, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  27:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  12 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-27

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Db          2 YNIVTFCCK 10


RESULT 2
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; Sequence 28, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
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;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
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;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  28:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  13 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-28

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Db          3 YNIVTFCCK 11


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; Sequence 29, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
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;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  29:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  14 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-29

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Db          4 YNIVTFCCK 12


RESULT 4
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; Sequence 18, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
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;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
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;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  18:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  15 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-18

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Qy          1 YNIVTFCCK 9
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Db          5 YNIVTFCCK 13


RESULT 5
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; Sequence 25, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
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;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
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;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  25:
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US-08-075-541D-25

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Db          9 YNIVTFCCK 17


RESULT 6
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; Sequence 16, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
;   LENGTH: 17
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-16

  Query Match             100.0%;  Score 55;  DB 2;  Length 17;
  Best Local Similarity   100.0%;  Pred. No. 0.018;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          9 YNIVTFCCK 17


RESULT 7
US-08-075-541D-30
; Sequence 30, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  30:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  18 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-30

  Query Match             100.0%;  Score 55;  DB 2;  Length 18;
  Best Local Similarity   100.0%;  Pred. No. 0.019;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          8 YNIVTFCCK 16


RESULT 8
US-08-075-541D-3
; Sequence 3, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
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;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  19 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-3

  Query Match             100.0%;  Score 55;  DB 2;  Length 19;
  Best Local Similarity   100.0%;  Pred. No. 0.02;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          9 YNIVTFCCK 17


RESULT 9
US-08-934-915-48
; Sequence 48, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  48:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-48

  Query Match             100.0%;  Score 55;  DB 1;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.021;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          6 YNIVTFCCK 14


RESULT 10
US-08-934-915-155
; Sequence 155, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  155:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-155

  Query Match             100.0%;  Score 55;  DB 1;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.021;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          6 YNIVTFCCK 14
```

```
RESULT 11
US-08-075-541D-10
; Sequence 10, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-10

  Query Match             100.0%;  Score 55;  DB 2;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.021;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         10 YNIVTFCCK 18


RESULT 12
US-09-980-177A-73
; Sequence 73, Application US/09980177A
; Patent No. 6838084
; GENERAL INFORMATION:
;  APPLICANT: Jochmus, Ingrid
;  APPLICANT:  Nieland, John
;  TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
;  TITLE OF INVENTION:  Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
;  TITLE OF INVENTION:  Therapy
;  FILE REFERENCE: 50125/036001
;  CURRENT APPLICATION NUMBER: US/09/980,177A
;  CURRENT FILING DATE:  2001-11-29
;  PRIOR APPLICATION NUMBER: PCT/EP00/05006
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: DE 19925199.1
;  PRIOR FILING DATE: 1999-06-01
;  NUMBER OF SEQ ID NOS: 77
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 73
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-980-177A-73

  Query Match             100.0%;  Score 55;  DB 2;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.021;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          8 YNIVTFCCK 16


RESULT 13
US-08-075-541D-47
; Sequence 47, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  47:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  25 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-47

  Query Match             100.0%;  Score 55;  DB 2;  Length 25;
  Best Local Similarity   100.0%;  Pred. No. 0.025;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy          1 YNIVTFCCK 9
              |||||||||
Db          3 YNIVTFCCK 11


RESULT 14
US-08-075-541D-20
; Sequence 20, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  26 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-20

  Query Match             100.0%;  Score 55;  DB 2;  Length 26;
  Best Local Similarity   100.0%;  Pred. No. 0.026;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         16 YNIVTFCCK 24


RESULT 15
US-08-934-915-52
; Sequence 52, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  52:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  30 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-52

  Query Match             100.0%;  Score 55;  DB 1;  Length 30;
  Best Local Similarity   100.0%;  Pred. No. 0.029;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          9 YNIVTFCCK 17


RESULT 16
US-09-486-394-3
; Sequence 3, Application US/09486394
; Patent No. 6478749
; GENERAL INFORMATION:
;  APPLICANT: Hopfl, Reinhard
;  TITLE OF INVENTION: Diagnostic Kit for Skin Tests, and Method
;  FILE REFERENCE: 032929-001
;  CURRENT APPLICATION NUMBER: US/09/486,394
;  CURRENT FILING DATE:  2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/04773
;  PRIOR FILING DATE: 1998-07-30
;  PRIOR APPLICATION NUMBER: DE 197 37 409.3
;  PRIOR FILING DATE: 1997-08-27
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 30
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(30)
;   OTHER INFORMATION: E7 peptide.
US-09-486-394-3
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  Query Match             100.0%;  Score 55;  DB 2;  Length 30;
  Best Local Similarity   100.0%;  Pred. No. 0.029;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         12 YNIVTFCCK 20


RESULT 17
US-08-075-541D-7
; Sequence 7, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  32 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-7

  Query Match             100.0%;  Score 55;  DB 2;  Length 32;
  Best Local Similarity   100.0%;  Pred. No. 0.031;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         22 YNIVTFCCK 30


RESULT 18
US-08-075-541D-8
; Sequence 8, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  32 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-8

  Query Match             100.0%;  Score 55;  DB 2;  Length 32;
  Best Local Similarity   100.0%;  Pred. No. 0.031;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          4 YNIVTFCCK 12


RESULT 19
US-09-501-097A-6
; Sequence 6, Application US/09501097A
; Patent No. 6734173
; GENERAL INFORMATION:
;  APPLICANT: Tzyy-Choou Wu
;  APPLICANT:  Chien-Fu Hung
;  TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
;  FILE REFERENCE: 2240-169349
;  CURRENT APPLICATION NUMBER: US/09/501,097A
;  CURRENT FILING DATE:  2000-02-09
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
;   LENGTH: 38
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-09-501-097A-6

  Query Match             100.0%;  Score 55;  DB 2;  Length 38;
```

Best Local Similarity 100.0%; Pred. No. 0.036;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 YNIVTFCCK 9
              |||||||||
Db         23 YNIVTFCCK 31
```

RESULT 20
US-08-406-248-6
; Sequence 6, Application US/08406248
; Patent No. 5736318
; GENERAL INFORMATION:
; APPLICANT: Munger, Karl
; APPLICANT: Jones, D. Leanne
; TITLE OF INVENTION: METHOD AND KIT FOR EVALUATING
; TITLE OF INVENTION: TRANSFORMED CELLS
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Ann-Louise Kerner, Ph.D., Lappin & Kusmer
; STREET: 200 State Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/406,248
; FILING DATE:
; CLASSIFICATION: 436
; ATTORNEY/AGENT INFORMATION:
; NAME: McDaniels, Patricia A.
; REGISTRATION NUMBER: 33,194
; REFERENCE/DOCKET NUMBER: HAZ-011
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-330-1300
; TELEFAX: 617-330-1311
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-406-248-6

Query Match 100.0%; Score 55; DB 1; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.084;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60
```

RESULT 21
US-08-075-541D-42
; Sequence 42, Application US/08075541D
; Patent No. 6183745
; GENERAL INFORMATION:
; APPLICANT: TINDLE, ROBERT
; APPLICANT: FERNANDO, GERMAIN
; APPLICANT: FRAZER, IAN
; TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
; TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
; STREET: 1601 MARKET STREET, 36TH FLOOR
; CITY: PHILADELPHIA
; STATE: PENNSYLVANIA
; COUNTRY: USA
; ZIP: 19103-2398
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/075,541D
; FILING DATE: 10-JUN-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: AU pk 3876
; FILING DATE: 12-DEC-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: pct/au91/00575
; FILING DATE: 12-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: NADEL, ALAN S
; REGISTRATION NUMBER: 27,363
; REFERENCE/DOCKET NUMBER: 8795-4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-567-2020
; TELEFAX: 215-567-2991
; INFORMATION FOR SEQ ID NO: 42:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-075-541D-42

Query Match 100.0%; Score 55; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.084;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60
```

RESULT 22
US-09-382-616A-1
; Sequence 1, Application US/09382616A
; Patent No. 6200746
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
; APPLICANT: He, Wanxia
; TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
; FILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/09/382,616A
; CURRENT FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: 09/382,616
; PRIOR FILING DATE: 1999-08-25
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Papillomavirus sylvilagi
US-09-382-616A-1

Query Match 100.0%; Score 55; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.084;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60
```

```
RESULT 23
US-08-944-368A-4
; Sequence 4, Application US/08944368A
; Patent No. 6228368
;  GENERAL INFORMATION:
;    APPLICANT:  Gissman, et al.
;    TITLE OF INVENTION:  Papilloma Virus Capsomere Vaccine
;    TITLE OF INVENTION:  Formulations and Methods of Use
;    NUMBER OF SEQUENCES:  28
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray &
;      ADDRESSEE:  Borun
;      STREET:  233 South Wacker Drive, 6300 Sears Tower
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  United States of America
;      ZIP:  60606-6402
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/944,368A
;      FILING DATE:
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Williams Jr., Joseph A.
;      REGISTRATION NUMBER:  38,659
;      REFERENCE/DOCKET NUMBER:  27013/34028
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  312-474-6300
;      TELEFAX:  312-474-0448
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  98 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-944-368A-4

  Query Match             100.0%;  Score 55;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.084;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 24
US-09-820-764-4
; Sequence 4, Application US/09820764
; Patent No. 6352696
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                            FORMULATIONS AND METHODS OF USE
;        NUMBER OF SEQUENCES: 28
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: FOLEY & LARDNER
;             STREET: 3000 K Street, N.W.
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: U.S.A.
;             ZIP: 20007-5109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/820,764
;             FILING DATE: 30-Mar-2001
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US 09/026,896
;             FILING DATE: 20-FEB-1998
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Sandercock, Colin G.
;             REGISTRATION NUMBER: 31,298
;             REFERENCE/DOCKET NUMBER: 37067/102
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 672-5300
;             TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 98 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-764-4

  Query Match             100.0%;  Score 55;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.084;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 25
US-09-613-303-8
; Sequence 8, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
;  APPLICANT:  Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION:  INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE:  12071/002001
;  CURRENT APPLICATION NUMBER: US/09/613,303
;  CURRENT FILING DATE:  2000-07-10
;  PRIOR APPLICATION NUMBER:  US 60/143,757
;  PRIOR FILING DATE:  1999-07-08
;  NUMBER OF SEQ ID NOS:  55
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-09-613-303-8

  Query Match             100.0%;  Score 55;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.084;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 26
US-09-566-420-19
; Sequence 19, Application US/09566420
; Patent No. 6500641
; GENERAL INFORMATION:
;  APPLICANT:  CHEN, SI-YI AND ZHAOYANG, YOU
;  TITLE OF INVENTION:  METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
;  TITLE OF INVENTION:  IMMUNE RESPONSE
;  FILE REFERENCE:  TBA
```

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;  CURRENT APPLICATION NUMBER: US/09/566,420
;  CURRENT FILING DATE:  2000-05-05
;  PRIOR APPLICATION NUMBER:  60/132,752
;  PRIOR FILING DATE:  1999-05-06
;  PRIOR APPLICATION NUMBER:  60/132,750
;  PRIOR FILING DATE:  1999-05-06
;  NUMBER OF SEQ ID NOS:  19
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 19
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type E7
US-09-566-420-19

  Query Match             100.0%;  Score 55;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.084;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 27
US-09-986-118A-4
; Sequence 4, Application US/09986118A
; Patent No. 6562351
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                            FORMULATIONS AND METHODS OF USE
;        NUMBER OF SEQUENCES: 28
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: FOLEY & LARDNER
;             STREET: 3000 K Street, N.W.
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: U.S.A.
;             ZIP: 20007-5109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/986,118A
;             FILING DATE: 07-No. 6562351-2001
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US 09/026,896
;             FILING DATE: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Sandercock, Colin G.
;             REGISTRATION NUMBER: 31,298
;             REFERENCE/DOCKET NUMBER: 37067/102
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 672-5300
;             TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 98 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

  Query Match             100.0%;  Score 55;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.084;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 28
US-09-728-466-1
; Sequence 1, Application US/09728466
; Patent No. 6641994
; GENERAL INFORMATION:
;  APPLICANT:  Fisher, Christopher
;  APPLICANT:  He, Wanxia
;  TITLE OF INVENTION:  Methods to Identify Anti-Viral Agents
;  FILE REFERENCE:  28341/6216
;  CURRENT APPLICATION NUMBER: US/09/728,466
;  CURRENT FILING DATE:  2000-12-01
;  PRIOR APPLICATION NUMBER:  09/382,616
;  PRIOR FILING DATE:  1999-08-25
;  NUMBER OF SEQ ID NOS:  43
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Papillomavirus sylvilagi
US-09-728-466-1

  Query Match             100.0%;  Score 55;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.084;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 29
US-09-824-017-4
; Sequence 4, Application US/09824017
; Patent No. 6649167
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                            FORMULATIONS AND METHODS OF USE
;        NUMBER OF SEQUENCES: 28
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: FOLEY & LARDNER
;             STREET: 3000 K Street, N.W.
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: U.S.A.
;             ZIP: 20007-5109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/824,017
;             FILING DATE: 03-Apr-2001
;             CLASSIFICATION: 424
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 09/026,896
;             FILING DATE: 1998-02-20
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Sandercock, Colin G.
;             REGISTRATION NUMBER: 31,298
;             REFERENCE/DOCKET NUMBER: 37067/102
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 672-5300
;             TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 98 amino acids
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;             TYPE: amino acid
;             TOPOLOGY: linear
;          MOLECULE TYPE: protein
;          SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-824-017-4

  Query Match             100.0%;  Score 55;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.084;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 30
US-10-267-311-8
; Sequence 8, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-8

  Query Match             100.0%;  Score 55;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.084;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 31
US-10-201-764-19
; Sequence 19, Application US/10201764
; Patent No. 6716623
; GENERAL INFORMATION:
;  APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
;  TITLE OF INVENTION:  IMMUNE RESPONSE
;  FILE REFERENCE: TBA
;  CURRENT APPLICATION NUMBER: US/10/201,764
;  CURRENT FILING DATE:  2002-07-22
;  PRIOR APPLICATION NUMBER: US/09/566,420
;  PRIOR FILING DATE: 2000-05-05
;  PRIOR APPLICATION NUMBER: 60/132,752
;  PRIOR FILING DATE: 1999-05-06
;  PRIOR APPLICATION NUMBER: 60/132,750
;  PRIOR FILING DATE: 1999-05-06
;  NUMBER OF SEQ ID NOS: 19
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type E7
US-10-201-764-19

  Query Match             100.0%;  Score 55;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.084;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 32
US-09-637-746-3
; Sequence 3, Application US/09637746
; Patent No. 6727079
; GENERAL INFORMATION:
;  APPLICANT: Thorgeirsson, Snorri S.
;  APPLICANT:  Woitach, Joseph T.
;  APPLICANT:  Zhang, Minghuang
;  TITLE OF INVENTION: cDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS PROTEIN
;  TITLE OF INVENTION:  PRODUCT
;  FILE REFERENCE: 11613.29USW1
;  CURRENT APPLICATION NUMBER: US/09/637,746
;  CURRENT FILING DATE:  2000-08-11
;  PRIOR APPLICATION NUMBER: PCT/US99/04142
;  PRIOR FILING DATE: 1999-02-25
;  PRIOR APPLICATION NUMBER: US 60/079,567
;  PRIOR FILING DATE: 1998-03-27
;  PRIOR APPLICATION NUMBER: US 60/075,922
;  PRIOR FILING DATE: 1998-02-25
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-09-637-746-3

  Query Match             100.0%;  Score 55;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.084;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 33
US-09-501-097A-7
; Sequence 7, Application US/09501097A
; Patent No. 6734173
; GENERAL INFORMATION:
;  APPLICANT: Tzyy-Choou Wu
;  APPLICANT:  Chien-Fu Hung
;  TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
;  FILE REFERENCE: 2240-169349
;  CURRENT APPLICATION NUMBER: US/09/501,097A
;  CURRENT FILING DATE:  2000-02-09
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-09-501-097A-7

  Query Match             100.0%;  Score 55;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.084;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60
```

```
RESULT 34
US-09-980-523A-12
; Sequence 12, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-12

  Query Match             100.0%;  Score 55;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.084;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 35
US-09-613-303-12
; Sequence 12, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
;  APPLICANT:  Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION:  INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE:  12071/002001
;  CURRENT APPLICATION NUMBER: US/09/613,303
;  CURRENT FILING DATE:  2000-07-10
;  PRIOR APPLICATION NUMBER:  US 60/143,757
;  PRIOR FILING DATE:  1999-07-08
;  NUMBER OF SEQ ID NOS:  55
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 12
;   LENGTH: 121
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-09-613-303-12

  Query Match             100.0%;  Score 55;  DB 2;  Length 121;
  Best Local Similarity   100.0%;  Pred. No. 0.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         75 YNIVTFCCK 83


RESULT 36
US-10-267-311-12
; Sequence 12, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
;   LENGTH: 121
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-12

  Query Match             100.0%;  Score 55;  DB 2;  Length 121;
  Best Local Similarity   100.0%;  Pred. No. 0.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         75 YNIVTFCCK 83


RESULT 37
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

  Query Match             100.0%;  Score 55;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.14;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db        150 YNIVTFCCK 158


RESULT 38
US-08-860-165-14
; Sequence 14, Application US/08860165A
```

; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

Query Match 100.0%; Score 55; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YNIVTFCCK 9
||||||||| 
Db 20 YNIVTFCCK 28

RESULT 39
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-12

Query Match 100.0%; Score 55; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YNIVTFCCK 9
||||||||| 
Db 150 YNIVTFCCK 158

RESULT 40
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-14

Query Match 100.0%; Score 55; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YNIVTFCCK 9
||||||||| 
Db 20 YNIVTFCCK 28

RESULT 41
US-09-462-993-2
; Sequence 2, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOUL, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/09/462,993
; CURRENT FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 2
; LENGTH: 185
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derivated from human papillomavirus, strain
; OTHER INFORMATION: HPV-16, E7 fusion signals of the rabies
; OTHER INFORMATION: glycoprotein, clone E7*TMR.
US-09-462-993-2

Query Match 100.0%; Score 55; DB 2; Length 185;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YNIVTFCCK 9
||||||||| 
Db 71 YNIVTFCCK 79

RESULT 42
US-09-613-303-35
; Sequence 35, Application US/09613303

```
; Patent No. 6495347
; GENERAL INFORMATION:
;  APPLICANT:  Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION:  INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE:  12071/002001
;  CURRENT APPLICATION NUMBER: US/09/613,303
;  CURRENT FILING DATE:  2000-07-10
;  PRIOR APPLICATION NUMBER:  US 60/143,757
;  PRIOR FILING DATE:  1999-07-08
;  NUMBER OF SEQ ID NOS:  55
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 35
;   LENGTH: 198
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-09-613-303-35

  Query Match             100.0%;  Score 55;  DB 2;  Length 198;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db        152 YNIVTFCCK 160


RESULT 43
US-10-267-311-35
; Sequence 35, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 35
;   LENGTH: 198
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-35

  Query Match             100.0%;  Score 55;  DB 2;  Length 198;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db        152 YNIVTFCCK 160


RESULT 44
US-09-485-885-1
; Sequence 1, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 1
;   LENGTH: 220
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-1

  Query Match             100.0%;  Score 55;  DB 2;  Length 220;
  Best Local Similarity   100.0%;  Pred. No. 0.17;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db        165 YNIVTFCCK 173


RESULT 45
US-09-485-885-8
; Sequence 8, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 8
;   LENGTH: 220
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-8

  Query Match             100.0%;  Score 55;  DB 2;  Length 220;
  Best Local Similarity   100.0%;  Pred. No. 0.17;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db        165 YNIVTFCCK 173


RESULT 46
US-09-485-885-12
; Sequence 12, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
```

```
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 12
;   LENGTH: 239
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-12

  Query Match             100.0%;  Score 55;  DB 2;  Length 239;
  Best Local Similarity   100.0%;  Pred. No. 0.18;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db        184 YNIVTFCCK 192


RESULT 47
US-08-459-818-20
; Sequence 20, Application US/08459818
; Patent No. 5851795
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  27
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  FastSeq 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/459,818
;      FILING DATE:  02-JUN-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436.35US02
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  253 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-459-818-20

  Query Match             100.0%;  Score 55;  DB 1;  Length 253;
  Best Local Similarity   100.0%;  Pred. No. 0.19;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db        207 YNIVTFCCK 215


RESULT 48
US-08-889-666-20
; Sequence 20, Application US/08889666
; Patent No. 5885579
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Kiener, Peter A.
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/889,666
;      FILING DATE:  08-JUL-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/375390
;      FILING DATE:  18-JAN-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-35US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  253 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-889-666-20

  Query Match             100.0%;  Score 55;  DB 1;  Length 253;
  Best Local Similarity   100.0%;  Pred. No. 0.19;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db        207 YNIVTFCCK 215


RESULT 49
US-08-465-078-20
; Sequence 20, Application US/08465078
; Patent No. 5885796
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Kiener, Peter A.
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
```

```
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/465,078
;      FILING DATE:  05-JUN-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/375390
;      FILING DATE:  18-JAN-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-35US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  253 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-465-078-20

  Query Match             100.0%;  Score 55;  DB 1;  Length 253;
  Best Local Similarity   100.0%;  Pred. No. 0.19;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db        207 YNIVTFCCK 215


RESULT 50
US-08-725-776-20
; Sequence 20, Application US/08725776
; Patent No. 5968510
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Kiener, Peter A.
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/725,776
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/375390
;      FILING DATE:  18-JAN-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-35US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  253 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-725-776-20

  Query Match             100.0%;  Score 55;  DB 1;  Length 253;
  Best Local Similarity   100.0%;  Pred. No. 0.19;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db        207 YNIVTFCCK 215


Search completed: May  5, 2006, 04:48:19
Job time : 24.7 secs
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:18:14 ; Search time 56 Seconds
(without alignments)
67.151 Million cell updates/sec

Title: US-08-170-344-60
Perfect score: 55
Sequence: 1 YNIVTFCCK 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_Main:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 11 | 55 | 100.0 | 15 | 4 | US-10-306-541-63 | Sequence 63, Appl |
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| 58 | 55 | 100.0 | 324 | 4 | US-10-267-311-25 | Sequence 25, Appl |
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| 73 | 55 | 100.0 | 647 | 5 | US-10-679-956-53 | Sequence 53, Appl |
| 74 | 55 | 100.0 | 648 | 4 | US-10-267-311-29 | Sequence 29, Appl |
| 75 | 55 | 100.0 | 648 | 5 | US-10-679-956-29 | Sequence 29, Appl |
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| 77 | 55 | 100.0 | 711 | 5 | US-10-679-956-41 | Sequence 41, Appl |
| 78 | 55 | 100.0 | 724 | 4 | US-10-267-311-45 | Sequence 45, Appl |
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| 89 | 48 | 87.3 | 9 | 4 | US-10-648-547-45 | Sequence 45, Appl |
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| 92 | 43 | 78.2 | 366 | 4 | US-10-263-872-43 | Sequence 43, Appl |
| 93 | 43 | 78.2 | 376 | 4 | US-10-263-872-8 | Sequence 8, Appli |
| 94 | 43 | 78.2 | 376 | 4 | US-10-263-872-41 | Sequence 41, Appl |
| 95 | 43 | 78.2 | 377 | 4 | US-10-263-872-6 | Sequence 6, Appli |
| 96 | 43 | 78.2 | 377 | 4 | US-10-263-872-39 | Sequence 39, Appl |
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| 103 | 42 | 76.4 | 10 | 4 | US-10-306-541-55 | Sequence 55, Appl |
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| 108 | 41 | 74.5 | 9 | 4 | US-10-365-908-40 | Sequence 40, Appl |
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| 110 | 41 | 74.5 | 9 | 4 | US-10-306-541-56 | Sequence 56, Appl |
| 111 | 41 | 74.5 | 9 | 5 | US-10-871-138-40 | Sequence 40, Appl |
| 112 | 40 | 72.7 | 73 | 4 | US-10-082-830-274 | Sequence 274, App |
| 113 | 40 | 72.7 | 73 | 4 | US-10-424-599-252484 | Sequence 252484, |
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| 116 | 38 | 69.1 | 6 | 4 | US-10-306-541-103 | Sequence 103, App |
| 117 | 38 | 69.1 | 9 | 4 | US-10-648-547-51 | Sequence 51, Appl |
| 118 | 38 | 69.1 | 9 | 4 | US-10-306-541-51 | Sequence 51, Appl |
| 119 | 38 | 69.1 | 10 | 4 | US-10-648-547-47 | Sequence 47, Appl |
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| 129 | 37 | 67.3 | 6 | 4 | US-10-306-541-102 | Sequence 102, App |
| 130 | 37 | 67.3 | 99 | 4 | US-10-437-963-201984 | Sequence 201984, |
| 131 | 37 | 67.3 | 143 | 4 | US-10-425-114-39683 | Sequence 39683, A |
| 132 | 37 | 67.3 | 156 | 4 | US-10-724-972A-4914 | Sequence 4914, Ap |
| 133 | 37 | 67.3 | 225 | 4 | US-10-437-963-157787 | Sequence 157787, |
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| 169 | 35 | 63.6 | 112 | 4 | US-10-437-963-120105 | Sequence 120105, |
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| 173 | 35 | 63.6 | 175 | 3 | US-09-764-893-91 | Sequence 91, Appl |
| 174 | 35 | 63.6 | 175 | 3 | US-09-764-886-59 | Sequence 59, Appl |
| 175 | 35 | 63.6 | 175 | 3 | US-09-764-853-584 | Sequence 584, App |
| 176 | 35 | 63.6 | 175 | 3 | US-09-989-442-108 | Sequence 108, App |
| 177 | 35 | 63.6 | 175 | 3 | US-09-764-886-59 | Sequence 59, Appl |
| 178 | 35 | 63.6 | 175 | 3 | US-09-764-875-798 | Sequence 798, App |
| 179 | 35 | 63.6 | 175 | 4 | US-10-073-865-91 | Sequence 91, Appl |
| 180 | 35 | 63.6 | 175 | 4 | US-10-103-313-382 | Sequence 382, App |
| 181 | 35 | 63.6 | 175 | 4 | US-10-073-885-100 | Sequence 100, App |
| 182 | 35 | 63.6 | 193 | 3 | US-09-796-753-162 | Sequence 162, App |
| 183 | 35 | 63.6 | 198 | 4 | US-10-437-963-169681 | Sequence 169681, |
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| 186 | 35 | 63.6 | 242 | 4 | US-10-073-885-73 | Sequence 73, Appl |
| 187 | 35 | 63.6 | 268 | 6 | US-11-097-143-13050 | Sequence 13050, A |
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| 191 | 35 | 63.6 | 350 | 3 | US-09-765-994-2 | Sequence 2, Appli |
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| 195 | 35 | 63.6 | 350 | 3 | US-09-968-433-16 | Sequence 16, Appl |
| 196 | 35 | 63.6 | 350 | 3 | US-09-968-433-79 | Sequence 79, Appl |
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| 198 | 35 | 63.6 | 350 | 4 | US-10-282-837-8 | Sequence 8, Appli |
| 199 | 35 | 63.6 | 350 | 4 | US-10-225-567A-607 | Sequence 607, App |
| 200 | 35 | 63.6 | 350 | 4 | US-10-288-222A-10 | Sequence 10, Appl |
| 201 | 35 | 63.6 | 350 | 4 | US-10-145-586-8 | Sequence 8, Appli |
| 202 | 35 | 63.6 | 350 | 4 | US-10-272-983-22 | Sequence 22, Appl |
| 203 | 35 | 63.6 | 350 | 4 | US-10-393-807-22 | Sequence 22, Appl |
| 204 | 35 | 63.6 | 350 | 4 | US-10-239-423-75 | Sequence 75, Appl |
| 205 | 35 | 63.6 | 350 | 4 | US-10-407-079-84 | Sequence 84, Appl |
| 206 | 35 | 63.6 | 350 | 4 | US-10-417-820A-24 | Sequence 24, Appl |
| 207 | 35 | 63.6 | 350 | 4 | US-10-723-955-24 | Sequence 24, Appl |
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| 210 | 35 | 63.6 | 350 | 4 | US-10-804-289-8 | Sequence 8, Appli |
| 211 | 35 | 63.6 | 350 | 5 | US-10-698-959-2 | Sequence 2, Appli |
| 212 | 35 | 63.6 | 350 | 5 | US-10-977-087-72 | Sequence 72, Appl |
| 213 | 35 | 63.6 | 350 | 5 | US-10-723-955-24 | Sequence 24, Appl |
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| 215 | 35 | 63.6 | 357 | 4 | US-10-017-161-2110 | Sequence 2110, Ap |
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| 217 | 35 | 63.6 | 493 | 4 | US-10-331-053-30 | Sequence 30, Appl |
| 218 | 35 | 63.6 | 497 | 4 | US-10-087-192-156 | Sequence 156, App |
| 219 | 35 | 63.6 | 497 | 4 | US-10-408-765A-1653 | Sequence 1653, Ap |
| 220 | 35 | 63.6 | 497 | 5 | US-10-496-905-593 | Sequence 593, App |
| 221 | 35 | 63.6 | 527 | 4 | US-10-437-963-203871 | Sequence 203871, |
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| 224 | 35 | 63.6 | 945 | 4 | US-10-437-963-179607 | Sequence 179607, |
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| 226 | 35 | 63.6 | 1381 | 4 | US-10-437-963-113233 | Sequence 113233, |
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| 229 | 34 | 61.8 | 6 | 4 | US-10-648-547-104 | Sequence 104, App |
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| 241 | 34 | 61.8 | 54 | 4 | US-10-437-963-119450 | Sequence 119450, |
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| 243 | 34 | 61.8 | 60 | 4 | US-10-424-599-199361 | Sequence 199361, |
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| 258 | 34 | 61.8 | 184 | 4 | US-10-369-493-5357 | Sequence 5357, Ap |
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| 266 | 34 | 61.8 | 326 | 5 | US-10-919-272-62 | Sequence 62, Appl |
| 267 | 34 | 61.8 | 342 | 4 | US-10-437-963-119075 | Sequence 119075, |
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| 269 | 34 | 61.8 | 564 | 4 | US-10-369-493-3903 | Sequence 3903, Ap |
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| 279 | 33 | 60.0 | 9 | 5 | US-10-871-138-111 | Sequence 111, App |
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| 308 | 33 | 60.0 | 163 | 4 | US-10-042-865-75 | Sequence 75, Appl |
| 309 | 33 | 60.0 | 175 | 4 | US-10-437-963-114879 | Sequence 114879, |
| 310 | 33 | 60.0 | 183 | 4 | US-10-042-865-74 | Sequence 74, Appl |
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| 319 | 33 | 60.0 | 311 | 3 | US-09-930-503-3 | Sequence 3, Appli |
| 320 | 33 | 60.0 | 313 | 4 | US-10-060-795B-7 | Sequence 7, Appli |
| 321 | 33 | 60.0 | 326 | 4 | US-10-087-192-153 | Sequence 153, App |
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| 337 | 33 | 60.0 | 407 | 4 | US-10-005-956-18 | Sequence 18, Appl |
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| 351 | 33 | 60.0 | 465 | 4 | US-10-225-567A-197 | Sequence 197, App |
| 352 | 33 | 60.0 | 465 | 5 | US-10-925-095-529 | Sequence 529, App |
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| 357 | 33 | 60.0 | 505 | 4 | US-10-029-009-21 | Sequence 21, Appl |
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| 361 | 33 | 60.0 | 565 | 4 | US-10-335-687A-16 | Sequence 16, Appl |
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| 368 | 33 | 60.0 | 704 | 4 | US-10-106-698-5319 | Sequence 5319, Ap |
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| 386 | 32 | 58.2 | 6 | 4 | US-10-306-541-100 | Sequence 100, App |
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| 388 | 32 | 58.2 | 8 | 4 | US-10-306-541-58 | Sequence 58, Appl |
| 389 | 32 | 58.2 | 9 | 3 | US-09-891-823-48 | Sequence 48, Appl |
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| 396 | 32 | 58.2 | 9 | 4 | US-10-367-580-93 | Sequence 93, Appl |
| 397 | 32 | 58.2 | 9 | 4 | US-10-367-593-93 | Sequence 93, Appl |
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| 402 | 32 | 58.2 | 9 | 4 | US-10-367-674-93 | Sequence 93, Appl |
| 403 | 32 | 58.2 | 9 | 4 | US-10-777-053-331 | Sequence 331, App |
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| 406 | 32 | 58.2 | 9 | 4 | US-10-837-217-331 | Sequence 331, App |
| 407 | 32 | 58.2 | 9 | 5 | US-10-871-138-48 | Sequence 48, Appl |
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| 417 | 32 | 58.2 | 10 | 4 | US-10-648-547-53 | Sequence 53, Appl |
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| 421 | 32 | 58.2 | 10 | 6 | US-11-067-159-376 | Sequence 376, App |
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| 425 | 32 | 58.2 | 14 | 4 | US-10-654-200-53 | Sequence 53, Appl |
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| 439 | 32 | 58.2 | 66 | 3 | US-09-751-708A-149 | Sequence 149, App |
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| 441 | 32 | 58.2 | 69 | 4 | US-10-425-115-323229 | Sequence 323229, |
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| 446 | 32 | 58.2 | 73 | 3 | US-09-148-545-244 | Sequence 244, App |
| 447 | 32 | 58.2 | 73 | 4 | US-10-425-115-225754 | Sequence 225754, |
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| 470 | 32 | 58.2 | 146 | 3 | US-09-148-545-188 | Sequence 188, App |
| 471 | 32 | 58.2 | 146 | 5 | US-10-979-111-188 | Sequence 188, App |
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| 478 | 32 | 58.2 | 195 | 4 | US-10-094-749-3032 | Sequence 3032, Ap |
| 479 | 32 | 58.2 | 196 | 5 | US-10-678-639-36 | Sequence 36, Appl |
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| 487 | 32 | 58.2 | 236 | 5 | US-10-751-845-157 | Sequence 157, App |
| 488 | 32 | 58.2 | 236 | 6 | US-11-131-648-20 | Sequence 20, Appl |
| 489 | 32 | 58.2 | 236 | 6 | US-11-131-648-49 | Sequence 49, Appl |
| 490 | 32 | 58.2 | 237 | 5 | US-10-751-845-158 | Sequence 158, App |
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| 493 | 32 | 58.2 | 245 | 4 | US-10-140-808-214 | Sequence 214, App |
| 494 | 32 | 58.2 | 245 | 4 | US-10-121-049-214 | Sequence 214, App |
| 495 | 32 | 58.2 | 245 | 4 | US-10-123-904-214 | Sequence 214, App |
| 496 | 32 | 58.2 | 245 | 4 | US-10-140-470-214 | Sequence 214, App |
| 497 | 32 | 58.2 | 245 | 4 | US-10-175-746-214 | Sequence 214, App |
| 498 | 32 | 58.2 | 245 | 4 | US-10-176-918-214 | Sequence 214, App |
| 499 | 32 | 58.2 | 245 | 4 | US-10-176-921-214 | Sequence 214, App |
| 500 | 32 | 58.2 | 245 | 4 | US-10-137-865-214 | Sequence 214, App |
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| 770 | 32 | 58.2 | 245 | 4 | US-10-153-756-214 | Sequence 214, App |
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| 774 | 32 | 58.2 | 245 | 4 | US-10-142-762-214 | Sequence 214, App |
| 775 | 32 | 58.2 | 245 | 4 | US-10-142-764-214 | Sequence 214, App |
| 776 | 32 | 58.2 | 245 | 4 | US-10-142-766-214 | Sequence 214, App |
| 777 | 32 | 58.2 | 245 | 4 | US-10-145-625-214 | Sequence 214, App |
| 778 | 32 | 58.2 | 245 | 4 | US-10-145-627-214 | Sequence 214, App |
| 779 | 32 | 58.2 | 245 | 4 | US-10-145-960-214 | Sequence 214, App |
| 780 | 32 | 58.2 | 245 | 4 | US-10-145-962-214 | Sequence 214, App |
| 781 | 32 | 58.2 | 245 | 4 | US-10-146-789-214 | Sequence 214, App |
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| 851 | 32 | 58.2 | 245 | 4 | US-10-128-685A-214 | Sequence 214, App |
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| 853 | 32 | 58.2 | 245 | 4 | US-10-142-886-214 | Sequence 214, App |
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| 861 | 32 | 58.2 | 245 | 4 | US-10-140-810-214 | Sequence 214, App |
| 862 | 32 | 58.2 | 245 | 4 | US-10-140-863-214 | Sequence 214, App |
| 863 | 32 | 58.2 | 245 | 4 | US-10-141-699-214 | Sequence 214, App |
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| 921 | 32 | 58.2 | 245 | 4 | US-10-158-787-214 | Sequence 214, App |
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| 923 | 32 | 58.2 | 245 | 4 | US-10-140-024-214 | Sequence 214, App |
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| 932 | 32 | 58.2 | 245 | 5 | US-10-145-961-214 | Sequence 214, App |
| 933 | 32 | 58.2 | 245 | 5 | US-10-147-488-214 | Sequence 214, App |
| 934 | 32 | 58.2 | 245 | 5 | US-10-147-531-214 | Sequence 214, App |
| 935 | 32 | 58.2 | 245 | 5 | US-10-931-886-214 | Sequence 214, App |
| 936 | 32 | 58.2 | 245 | 5 | US-10-158-788-214 | Sequence 214, App |
| 937 | 32 | 58.2 | 245 | 5 | US-10-955-952-214 | Sequence 214, App |
| 938 | 32 | 58.2 | 249 | 6 | US-11-097-143-32193 | Sequence 32193, A |
| 939 | 32 | 58.2 | 250 | 4 | US-10-424-599-268563 | Sequence 268563, |
| 940 | 32 | 58.2 | 250 | 5 | US-10-739-930-9135 | Sequence 9135, Ap |
| 941 | 32 | 58.2 | 256 | 4 | US-10-050-882-83 | Sequence 83, Appl |
| 942 | 32 | 58.2 | 256 | 5 | US-10-963-903-83 | Sequence 83, Appl |
| 943 | 32 | 58.2 | 257 | 3 | US-09-813-453A-53 | Sequence 53, Appl |
| 944 | 32 | 58.2 | 257 | 6 | US-11-011-979-53 | Sequence 53, Appl |
| 945 | 32 | 58.2 | 261 | 4 | US-10-425-115-247044 | Sequence 247044, |
| 946 | 32 | 58.2 | 261 | 5 | US-10-751-845-160 | Sequence 160, App |
| 947 | 32 | 58.2 | 290 | 4 | US-10-264-237-2052 | Sequence 2052, Ap |
| 948 | 32 | 58.2 | 292 | 5 | US-10-128-558-138 | Sequence 138, App |
| 949 | 32 | 58.2 | 293 | 5 | US-10-128-558-340 | Sequence 340, App |
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| 952 | 32 | 58.2 | 294 | 5 | US-10-512-602-61 | Sequence 61, Appl |
| 953 | 32 | 58.2 | 295 | 4 | US-10-425-114-60034 | Sequence 60034, A |
| 954 | 32 | 58.2 | 304 | 5 | US-10-450-763-44234 | Sequence 44234, A |
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| 957 | 32 | 58.2 | 322 | 5 | US-10-963-903-63 | Sequence 63, Appl |
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| 960 | 32 | 58.2 | 356 | 4 | US-10-424-599-258352 | Sequence 258352, |
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| 962 | 32 | 58.2 | 369 | 5 | US-10-739-930-10530 | Sequence 10530, A |
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| 971 | 32 | 58.2 | 401 | 5 | US-10-495-148-3 | Sequence 3, Appli |
| 972 | 32 | 58.2 | 403 | 5 | US-10-739-930-10938 | Sequence 10938, A |
| 973 | 32 | 58.2 | 406 | 5 | US-10-450-763-35454 | Sequence 35454, A |
| 974 | 32 | 58.2 | 412 | 4 | US-10-424-599-200932 | Sequence 200932, |
| 975 | 32 | 58.2 | 436 | 4 | US-10-425-115-238201 | Sequence 238201, |
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| 977 | 32 | 58.2 | 442 | 4 | US-10-161-572-53 | Sequence 53, Appl |
| 978 | 32 | 58.2 | 442 | 4 | US-10-471-449-1 | Sequence 1, Appli |
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| 980 | 32 | 58.2 | 476 | 4 | US-10-425-114-45332 | Sequence 45332, A |
| 981 | 32 | 58.2 | 480 | 4 | US-10-425-115-322247 | Sequence 322247, |
| 982 | 32 | 58.2 | 483 | 5 | US-10-475-203A-20 | Sequence 20, Appl |
| 983 | 32 | 58.2 | 509 | 4 | US-10-097-340-254 | Sequence 254, App |
| 984 | 32 | 58.2 | 509 | 4 | US-10-157-031-44 | Sequence 44, Appl |
| 985 | 32 | 58.2 | 509 | 4 | US-10-170-385-87 | Sequence 87, Appl |
| 986 | 32 | 58.2 | 509 | 4 | US-10-117-937-77 | Sequence 77, Appl |
| 987 | 32 | 58.2 | 509 | 4 | US-10-173-999-2 | Sequence 2, Appli |
| 988 | 32 | 58.2 | 509 | 4 | US-10-058-270A-110 | Sequence 110, App |
| 989 | 32 | 58.2 | 509 | 4 | US-10-296-734-830 | Sequence 830, App |
| 990 | 32 | 58.2 | 509 | 4 | US-10-657-022-77 | Sequence 77, Appl |
| 991 | 32 | 58.2 | 509 | 5 | US-10-643-795A-92 | Sequence 92, Appl |
| 992 | 32 | 58.2 | 509 | 5 | US-10-723-860-4358 | Sequence 4358, Ap |
| 993 | 32 | 58.2 | 509 | 5 | US-10-482-029-136 | Sequence 136, App |
| 994 | 32 | 58.2 | 509 | 5 | US-10-948-518-92 | Sequence 92, Appl |
| 995 | 32 | 58.2 | 509 | 5 | US-10-794-514A-451 | Sequence 451, App |
| 996 | 32 | 58.2 | 509 | 5 | US-10-871-708-8 | Sequence 8, Appli |
| 997 | 32 | 58.2 | 509 | 5 | US-10-756-149-5765 | Sequence 5765, Ap |
| 998 | 32 | 58.2 | 509 | 6 | US-11-067-064-77 | Sequence 77, Appl |
| 999 | 32 | 58.2 | 509 | 6 | US-11-050-926-254 | Sequence 254, App |
| 1000 | 32 | 58.2 | 509 | 6 | US-11-067-159-77 | Sequence 77, Appl |

ALIGNMENTS

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RESULT 1
US-10-648-547-54
; Sequence 54, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/9
;  CURRENT APPLICATION NUMBER: US/10/648,547
;  CURRENT FILING DATE:  2003-08-25
;  PRIOR APPLICATION NUMBER: 10/306,541
;  PRIOR FILING DATE: 11-25-2002
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 11-23-2001
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 54
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-648-547-54

  Query Match             100.0%;  Score 55;  DB 4;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.7e+06;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          1 YNIVTFCCK 9


RESULT 2
US-10-306-541-54
; Sequence 54, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/4
;  CURRENT APPLICATION NUMBER: US/10/306,541
;  CURRENT FILING DATE:  2003-11-25
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 2001-11-23
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 54
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-306-541-54

  Query Match             100.0%;  Score 55;  DB 4;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.7e+06;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          1 YNIVTFCCK 9


RESULT 3
US-10-648-547-108
; Sequence 108, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/9
;  CURRENT APPLICATION NUMBER: US/10/648,547
;  CURRENT FILING DATE:  2003-08-25
;  PRIOR APPLICATION NUMBER: 10/306,541
;  PRIOR FILING DATE: 11-25-2002
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 11-23-2001
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 108
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-648-547-108

  Query Match             100.0%;  Score 55;  DB 4;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.026;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          1 YNIVTFCCK 9


RESULT 4
US-10-306-541-108
; Sequence 108, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/4
;  CURRENT APPLICATION NUMBER: US/10/306,541
;  CURRENT FILING DATE:  2003-11-25
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 2001-11-23
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 108
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-306-541-108

  Query Match             100.0%;  Score 55;  DB 4;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.026;
```

```
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          1 YNIVTFCCK 9


RESULT 5
US-10-648-547-61
; Sequence 61, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/9
;  CURRENT APPLICATION NUMBER: US/10/648,547
;  CURRENT FILING DATE:  2003-08-25
;  PRIOR APPLICATION NUMBER: 10/306,541
;  PRIOR FILING DATE: 11-25-2002
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 11-23-2001
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 61
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-648-547-61

  Query Match             100.0%;  Score 55;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.037;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          4 YNIVTFCCK 12


RESULT 6
US-10-648-547-62
; Sequence 62, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/9
;  CURRENT APPLICATION NUMBER: US/10/648,547
;  CURRENT FILING DATE:  2003-08-25
;  PRIOR APPLICATION NUMBER: 10/306,541
;  PRIOR FILING DATE: 11-25-2002
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 11-23-2001
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 62
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-648-547-62

  Query Match             100.0%;  Score 55;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.037;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          5 YNIVTFCCK 13


RESULT 7
US-10-648-547-63
; Sequence 63, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/9
;  CURRENT APPLICATION NUMBER: US/10/648,547
;  CURRENT FILING DATE:  2003-08-25
;  PRIOR APPLICATION NUMBER: 10/306,541
;  PRIOR FILING DATE: 11-25-2002
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 11-23-2001
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 63
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-648-547-63

  Query Match             100.0%;  Score 55;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.037;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          2 YNIVTFCCK 10


RESULT 8
US-10-648-547-64
; Sequence 64, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/9
;  CURRENT APPLICATION NUMBER: US/10/648,547
;  CURRENT FILING DATE:  2003-08-25
;  PRIOR APPLICATION NUMBER: 10/306,541
;  PRIOR FILING DATE: 11-25-2002
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 11-23-2001
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 64
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-648-547-64

  Query Match             100.0%;  Score 55;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.037;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          7 YNIVTFCCK 15


RESULT 9
US-10-306-541-61
; Sequence 61, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/4
;  CURRENT APPLICATION NUMBER: US/10/306,541
;  CURRENT FILING DATE:  2003-11-25
```

```
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 2001-11-23
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 61
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-306-541-61

  Query Match             100.0%;  Score 55;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.037;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          4 YNIVTFCCK 12


RESULT 10
US-10-306-541-62
; Sequence 62, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/4
;  CURRENT APPLICATION NUMBER: US/10/306,541
;  CURRENT FILING DATE:  2003-11-25
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 2001-11-23
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 62
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-306-541-62

  Query Match             100.0%;  Score 55;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.037;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          5 YNIVTFCCK 13


RESULT 11
US-10-306-541-63
; Sequence 63, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/4
;  CURRENT APPLICATION NUMBER: US/10/306,541
;  CURRENT FILING DATE:  2003-11-25
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 2001-11-23
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 63
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-306-541-63

  Query Match             100.0%;  Score 55;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.037;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          2 YNIVTFCCK 10


RESULT 12
US-10-306-541-64
; Sequence 64, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/4
;  CURRENT APPLICATION NUMBER: US/10/306,541
;  CURRENT FILING DATE:  2003-11-25
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 2001-11-23
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 64
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-306-541-64

  Query Match             100.0%;  Score 55;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.037;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          7 YNIVTFCCK 15


RESULT 13
US-10-858-384-16
; Sequence 16, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 16
;   LENGTH: 17
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
;   OTHER INFORMATION: for E7 of HPV
US-10-858-384-16

  Query Match             100.0%;  Score 55;  DB 5;  Length 17;
  Best Local Similarity   100.0%;  Pred. No. 0.042;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          9 YNIVTFCCK 17
```

```
RESULT 14
US-10-654-200-56
; Sequence 56, Application US/10654200
; Publication No. US20040170606A1
; GENERAL INFORMATION:
;  APPLICANT: Large Scale Biology Corporation
;  TITLE OF INVENTION: PRODUCTION OF PEPTIDES IN PLANTS AS VIRAL COAT PROTEIN FUSIONS
;  FILE REFERENCE: N9739
;  CURRENT APPLICATION NUMBER: US/10/654,200
;  CURRENT FILING DATE:  2003-09-03
;  PRIOR APPLICATION NUMBER: 60/407,795
;  PRIOR FILING DATE: 2002-09-03
;  PRIOR APPLICATION NUMBER: 60/386,921
;  PRIOR FILING DATE: 2002-06-07
;  PRIOR APPLICATION NUMBER: 10/457,082
;  PRIOR FILING DATE: 2003-06-06
;  NUMBER OF SEQ ID NOS: 106
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 56
;   LENGTH: 19
;   TYPE: PRT
;   ORGANISM: Human Papilloma Virus
US-10-654-200-56

  Query Match             100.0%;  Score 55;  DB 4;  Length 19;
  Best Local Similarity   100.0%;  Pred. No. 0.046;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          9 YNIVTFCCK 17


RESULT 15
US-10-484-063-14
; Sequence 14, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
;   LENGTH: 19
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-484-063-14

  Query Match             100.0%;  Score 55;  DB 5;  Length 19;
  Best Local Similarity   100.0%;  Pred. No. 0.046;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          9 YNIVTFCCK 17


RESULT 16
US-10-432-465-48
; Sequence 48, Application US/10432465
; Publication No. US20040091479A1
; GENERAL INFORMATION:
;  APPLICANT: Nieland, John
;  APPLICANT:  Kaufmann, Andreas
;  APPLICANT:  Kather, Angela
;  APPLICANT:  Schinz, Manuela
;  TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1
;  TITLE OF INVENTION:  Protein and E7 Protein and Their Use in Diagnosis and
;  TITLE OF INVENTION:  Therapy
;  FILE REFERENCE: 50125/077001
;  CURRENT APPLICATION NUMBER: US/10/432,465
;  CURRENT FILING DATE:  2003-12-10
;  PRIOR APPLICATION NUMBER: PCT/EP01/14037
;  PRIOR FILING DATE: 2001-11-30
;  PRIOR APPLICATION NUMBER: DE 10059631.2
;  PRIOR FILING DATE: 2000-12-01
;  NUMBER OF SEQ ID NOS: 116
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 48
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-432-465-48

  Query Match             100.0%;  Score 55;  DB 4;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.049;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          8 YNIVTFCCK 16


RESULT 17
US-10-654-200-57
; Sequence 57, Application US/10654200
; Publication No. US20040170606A1
; GENERAL INFORMATION:
;  APPLICANT: Large Scale Biology Corporation
;  TITLE OF INVENTION: PRODUCTION OF PEPTIDES IN PLANTS AS VIRAL COAT PROTEIN FUSIONS
;  FILE REFERENCE: N9739
;  CURRENT APPLICATION NUMBER: US/10/654,200
;  CURRENT FILING DATE:  2003-09-03
;  PRIOR APPLICATION NUMBER: 60/407,795
;  PRIOR FILING DATE: 2002-09-03
;  PRIOR APPLICATION NUMBER: 60/386,921
;  PRIOR FILING DATE: 2002-06-07
;  PRIOR APPLICATION NUMBER: 10/457,082
;  PRIOR FILING DATE: 2003-06-06
;  NUMBER OF SEQ ID NOS: 106
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 57
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Human Papilloma Virus
US-10-654-200-57

  Query Match             100.0%;  Score 55;  DB 4;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.049;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         10 YNIVTFCCK 18


RESULT 18
US-10-890-526-73
; Sequence 73, Application US/10890526
; Publication No. US20040258708A1
; GENERAL INFORMATION:
;  APPLICANT: Jochmus, Ingrid
;  APPLICANT:  Nieland, John
;  TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
;  TITLE OF INVENTION:  Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
```

```
;  TITLE OF INVENTION:  Therapy
;  FILE REFERENCE: 50125/036001
;  CURRENT APPLICATION NUMBER: US/10/890,526
;  CURRENT FILING DATE:  2004-07-13
;  PRIOR APPLICATION NUMBER: US/09/980,177
;  PRIOR FILING DATE: 2002-05-02
;  PRIOR APPLICATION NUMBER: PCT/EP00/05006
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: DE 19925199.1
;  PRIOR FILING DATE: 1999-06-01
;  NUMBER OF SEQ ID NOS: 77
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 73
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-890-526-73

  Query Match             100.0%;  Score 55;  DB 5;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.049;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          8 YNIVTFCCK 16


RESULT 19
US-10-648-547-107
; Sequence 107, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/9
;  CURRENT APPLICATION NUMBER: US/10/648,547
;  CURRENT FILING DATE:  2003-08-25
;  PRIOR APPLICATION NUMBER: 10/306,541
;  PRIOR FILING DATE: 11-25-2002
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 11-23-2001
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 107
;   LENGTH: 21
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-648-547-107

  Query Match             100.0%;  Score 55;  DB 4;  Length 21;
  Best Local Similarity   100.0%;  Pred. No. 0.051;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          8 YNIVTFCCK 16


RESULT 20
US-10-306-541-107
; Sequence 107, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/4
;  CURRENT APPLICATION NUMBER: US/10/306,541
;  CURRENT FILING DATE:  2003-11-25
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 2001-11-23
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 107
;   LENGTH: 21
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-306-541-107

  Query Match             100.0%;  Score 55;  DB 4;  Length 21;
  Best Local Similarity   100.0%;  Pred. No. 0.051;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db          8 YNIVTFCCK 16


RESULT 21
US-09-728-466-1
; Sequence 1, Application US/09728466
; Patent No. US20010029022A1
; GENERAL INFORMATION:
;  APPLICANT:  Fisher, Christopher
;  APPLICANT:  He, Wanxia
;  TITLE OF INVENTION:  Methods to Identify Anti-Viral Agents
;  FILE REFERENCE:  28341/6216
;  CURRENT APPLICATION NUMBER: US/09/728,466
;  CURRENT FILING DATE:  2000-12-01
;  PRIOR APPLICATION NUMBER:  09/382,616
;  PRIOR FILING DATE:  1999-08-25
;  NUMBER OF SEQ ID NOS:  43
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Papillomavirus sylvilagi
US-09-728-466-1

  Query Match             100.0%;  Score 55;  DB 3;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 22
US-09-820-765-4
; Sequence 4, Application US/09820765
; Publication No. US20020039584A1
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                            FORMULATIONS AND METHODS OF USE
;        NUMBER OF SEQUENCES: 28
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: FOLEY & LARDNER
;             STREET: 3000 K Street, N.W.
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: U.S.A.
;             ZIP: 20007-5109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/820,765
;             FILING DATE: 30-Mar-2001
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
```

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;            APPLICATION NUMBER: US 09/026,896
;            FILING DATE: 20-FEB-1998
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Sandercock, Colin G.
;            REGISTRATION NUMBER: 31,298
;            REFERENCE/DOCKET NUMBER: 37067/102
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (202) 672-5300
;            TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 98 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-765-4

  Query Match           100.0%;  Score 55;  DB 3;  Length 98;
  Best Local Similarity  100.0%;  Pred. No. 0.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 23
US-09-824-017-4
; Sequence 4, Application US/09824017
; Publication No. US20020197668A1
;   GENERAL INFORMATION:
;       APPLICANT: BURGER, Alexander
;                  HALLEK, Michael
;       TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                           FORMULATIONS AND METHODS OF USE
;       NUMBER OF SEQUENCES: 28
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: FOLEY & LARDNER
;            STREET: 3000 K Street, N.W.
;            CITY: Washington
;            STATE: D.C.
;            COUNTRY: U.S.A.
;            ZIP: 20007-5109
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.30
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/824,017
;            FILING DATE: 03-Apr-2001
;            CLASSIFICATION: 424
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 09/026,896
;            FILING DATE: 1998-02-20
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Sandercock, Colin G.
;            REGISTRATION NUMBER: 31,298
;            REFERENCE/DOCKET NUMBER: 37067/102
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (202) 672-5300
;            TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 98 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-824-017-4

  Query Match           100.0%;  Score 55;  DB 3;  Length 98;
  Best Local Similarity  100.0%;  Pred. No. 0.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 24
US-09-986-118A-4
; Sequence 4, Application US/09986118A
; Publication No. US20030021806A1
;   GENERAL INFORMATION:
;       APPLICANT: BURGER, Alexander
;                  HALLEK, Michael
;       TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                           FORMULATIONS AND METHODS OF USE
;       NUMBER OF SEQUENCES: 28
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: FOLEY & LARDNER
;            STREET: 3000 K Street, N.W.
;            CITY: Washington
;            STATE: D.C.
;            COUNTRY: U.S.A.
;            ZIP: 20007-5109
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.30
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/986,118A
;            FILING DATE: 07-No. US20030021806A1-2001
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: US 09/026,896
;            FILING DATE: <Unknown>
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Sandercock, Colin G.
;            REGISTRATION NUMBER: 31,298
;            REFERENCE/DOCKET NUMBER: 37067/102
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (202) 672-5300
;            TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 98 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

  Query Match           100.0%;  Score 55;  DB 3;  Length 98;
  Best Local Similarity  100.0%;  Pred. No. 0.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 25
US-10-267-311-8
; Sequence 8, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
```

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;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-8

  Query Match             100.0%;  Score 55;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 26
US-10-177-390-8
; Sequence 8, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
;  APPLICANT: Schuler, Gerold
;  APPLICANT:  N.V. Antwerps Innovatiecentrum
;  TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
;  TITLE OF INVENTION:  Polynucleotides by Electroporation
;  FILE REFERENCE: 021505wo/JH/ml
;  CURRENT APPLICATION NUMBER: US/10/177,390
;  CURRENT FILING DATE:  2002-06-20
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: fragment of
;   OTHER INFORMATION: human papilloma virus type 16 E7 gene
US-10-177-390-8

  Query Match             100.0%;  Score 55;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 27
US-10-201-764-19
; Sequence 19, Application US/10201764
; Publication No. US20030166140A1
; GENERAL INFORMATION:
;  APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
;  TITLE OF INVENTION:  IMMUNE RESPONSE
;  FILE REFERENCE: TBA
;  CURRENT APPLICATION NUMBER: US/10/201,764
;  CURRENT FILING DATE:  2002-07-22
;  PRIOR APPLICATION NUMBER: US/09/566,420
;  PRIOR FILING DATE: 2000-05-05
;  PRIOR APPLICATION NUMBER: 60/132,752
;  PRIOR FILING DATE: 1999-05-06
;  PRIOR APPLICATION NUMBER: 60/132,750
;  PRIOR FILING DATE: 1999-05-06
;  NUMBER OF SEQ ID NOS: 19
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type E7
US-10-201-764-19

  Query Match             100.0%;  Score 55;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 28
US-10-392-113-29
; Sequence 29, Application US/10392113
; Publication No. US20030224993A1
; GENERAL INFORMATION:
;  APPLICANT: Land, Hartmut
;  APPLICANT:  Deleu, Laurent
;  TITLE OF INVENTION: COMPOSITIONS THAT INHIBIT PROLIFERATION
;  TITLE OF INVENTION:  OF CANCER CELLS
;  FILE REFERENCE: 21108.0005U3
;  CURRENT APPLICATION NUMBER: US/10/392,113
;  CURRENT FILING DATE:  2003-03-17
;  PRIOR APPLICATION NUMBER: 60/365,078
;  PRIOR FILING DATE: 2002-03-15
;  PRIOR APPLICATION NUMBER: PCT/US01/32127
;  PRIOR FILING DATE: 2001-10-15
;  PRIOR APPLICATION NUMBER: 60/239,705
;  PRIOR FILING DATE: 2000-10-12
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 29
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:/Note =
;   OTHER INFORMATION: Synthetic Construct
US-10-392-113-29

  Query Match             100.0%;  Score 55;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 29
US-10-654-129-4
; Sequence 4, Application US/10654129
; Publication No. US20040081661A1
;  GENERAL INFORMATION:
;       APPLICANT: BURGER, Alexander
;                  HALLEK, Michael
;       TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                           FORMULATIONS AND METHODS OF USE
;       NUMBER OF SEQUENCES: 28
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: FOLEY & LARDNER
;            STREET: 3000 K Street, N.W.
;            CITY: Washington
;            STATE: D.C.
;            COUNTRY: U.S.A.
;            ZIP: 20007-5109
;       COMPUTER READABLE FORM:
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;               MEDIUM TYPE: Floppy disk
;               COMPUTER: IBM PC compatible
;               OPERATING SYSTEM: PC-DOS/MS-DOS
;               SOFTWARE: PatentIn Release #1.0, Version #1.30
;          CURRENT APPLICATION DATA:
;               APPLICATION NUMBER: US/10/654,129
;               FILING DATE: 04-Sep-2003
;               CLASSIFICATION: 424
;          PRIOR APPLICATION DATA:
;               APPLICATION NUMBER: US/09/824,017
;               FILING DATE: 03-Apr-2001
;               APPLICATION NUMBER: 09/026,896
;               FILING DATE: 1998-02-20
;          ATTORNEY/AGENT INFORMATION:
;               NAME: Sandercock, Colin G.
;               REGISTRATION NUMBER: 31,298
;               REFERENCE/DOCKET NUMBER: 37067/102
;          TELECOMMUNICATION INFORMATION:
;               TELEPHONE: (202) 672-5300
;               TELEFAX: (202) 672-5399
;     INFORMATION FOR SEQ ID NO: 4:
;          SEQUENCE CHARACTERISTICS:
;               LENGTH: 98 amino acids
;               TYPE: amino acid
;               TOPOLOGY: linear
;          MOLECULE TYPE: protein
;          SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-654-129-4

  Query Match             100.0%;  Score 55;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 30
US-10-681-410-19
; Sequence 19, Application US/10681410
; Publication No. US20040096426A1
; GENERAL INFORMATION:
;  APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
;  TITLE OF INVENTION:  IMMUNE RESPONSE
;  FILE REFERENCE: TBA
;  CURRENT APPLICATION NUMBER: US/10/681,410
;  CURRENT FILING DATE:  2003-10-08
;  PRIOR APPLICATION NUMBER: US/10/201,764
;  PRIOR FILING DATE: 2002-07-22
;  PRIOR APPLICATION NUMBER: US/09/566,420
;  PRIOR FILING DATE: 2000-05-05
;  PRIOR APPLICATION NUMBER: 60/132,752
;  PRIOR FILING DATE: 1999-05-06
;  PRIOR APPLICATION NUMBER: 60/132,750
;  PRIOR FILING DATE: 1999-05-06
;  NUMBER OF SEQ ID NOS: 19
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type E7
US-10-681-410-19

  Query Match             100.0%;  Score 55;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 31
US-10-772-988-3
; Sequence 3, Application US/10772988
; Publication No. US20040139485A1
; GENERAL INFORMATION:
;  APPLICANT: Thorgeirsson, Snorri S.
;  APPLICANT:  Woitach, Joseph T.
;  APPLICANT:  Zhang, Minghuang
;  TITLE OF INVENTION: cDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS PROTEI
;  TITLE OF INVENTION:  PRODUCT
;  FILE REFERENCE: 11613.29USW1
;  CURRENT APPLICATION NUMBER: US/10/772,988
;  CURRENT FILING DATE:  2004-02-05
;  PRIOR APPLICATION NUMBER: US/09/637,746
;  PRIOR FILING DATE: 2000-08-11
;  PRIOR APPLICATION NUMBER: PCT/US99/04142
;  PRIOR FILING DATE: 1999-02-25
;  PRIOR APPLICATION NUMBER: US 60/079,567
;  PRIOR FILING DATE: 1998-03-27
;  PRIOR APPLICATION NUMBER: US 60/075,922
;  PRIOR FILING DATE: 1998-02-25
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-772-988-3

  Query Match             100.0%;  Score 55;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 32
US-10-479-541-5
; Sequence 5, Application US/10479541
; Publication No. US20040151723A1
; GENERAL INFORMATION:
;  APPLICANT: Kirin Beer Kabushiki Kaisha
;  TITLE OF INVENTION: Novel E7 antigen epitope from human papillomavirus and
;  TITLE OF INVENTION:  CD4+ T cells activated thereby
;  FILE REFERENCE: 137240PX
;  CURRENT APPLICATION NUMBER: US/10/479,541
;  CURRENT FILING DATE:  2003-12-04
;  PRIOR APPLICATION NUMBER: 173803/2001
;  PRIOR FILING DATE: 2001-06-08
;  NUMBER OF SEQ ID NOS: 5
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-479-541-5

  Query Match             100.0%;  Score 55;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 33
US-10-042-526A-4
; Sequence 4, Application US/10042526A
; Publication No. US20050031636A1
```

; GENERAL INFORMATION:
; APPLICANT: GISSMANN, et al.
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE FORMULATIONS AND METHODS OF USE
; FILE REFERENCE: 27013/38150
; CURRENT APPLICATION NUMBER: US/10/042,526A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: US 09/632,286
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: US 08/944,368
; PRIOR FILING DATE: 1997-10-06
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 4
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human Papilloma Virus
US-10-042-526A-4

Query Match 100.0%; Score 55; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YNIVTFCCK 9
||||||||| 
Db 52 YNIVTFCCK 60

RESULT 34
US-10-657-399-1
; Sequence 1, Application US/10657399
; Publication No. US20050032038A1
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
; APPLICANT: He, Wanxia
; TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
; FILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/10/657,399
; CURRENT FILING DATE: 2003-09-08
; PRIOR APPLICATION NUMBER: US/09/728,466
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: 09/382,616
; PRIOR FILING DATE: 1999-08-25
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Papillomavirus sylvilagi
US-10-657-399-1

Query Match 100.0%; Score 55; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YNIVTFCCK 9
||||||||| 
Db 52 YNIVTFCCK 60

RESULT 35
US-10-858-384-12
; Sequence 12, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 12
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-858-384-12

Query Match 100.0%; Score 55; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YNIVTFCCK 9
||||||||| 
Db 52 YNIVTFCCK 60

RESULT 36
US-10-484-063-26
; Sequence 26, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 26
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-26

Query Match 100.0%; Score 55; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YNIVTFCCK 9
||||||||| 
Db 52 YNIVTFCCK 60

RESULT 37
US-10-343-448-5
; Sequence 5, Application US/10343448
; Publication No. US20050054820A1
; GENERAL INFORMATION:
; APPLICANT: WU, Tzyy-Choou
; APPLICANT: HUNG, Chien-Fu
; TITLE OF INVENTION: MOLECULAR VACCINE LINKING AN ENDOPLASMIC RETICULUM CHAPERONE
; TITLE OF INVENTION: POLYPEPTIDE TO AN ANTIGEN
; FILE REFERENCE: 2240-186463
; CURRENT APPLICATION NUMBER: US/10/343,448
; CURRENT FILING DATE: 2003-01-31
; PRIOR APPLICATION NUMBER: PCT/US01/24134
; PRIOR FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: US 60/222,902
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 5
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-343-448-5

Query Match 100.0%; Score 55; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YNIVTFCCK 9
||||||||| 
Db 52 YNIVTFCCK 60

RESULT 38
US-10-679-956-8
; Sequence 8, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/679,956
; CURRENT FILING DATE: 2003-10-06
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-679-956-8

Query Match 100.0%; Score 55; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YNIVTFCCK 9
||||||||| 
Db 52 YNIVTFCCK 60

RESULT 39
US-10-367-057-17
; Sequence 17, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
; APPLICANT: Cuthill, Scott;
; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; APPLICANT: Ooi, Chean Eng
; TITLE OF INVENTION: Complexes and Methods of Using Same
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/256,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 17
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-367-057-17

Query Match 100.0%; Score 55; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YNIVTFCCK 9
||||||||| 
Db 52 YNIVTFCCK 60

RESULT 40
US-11-077-939-5
; Sequence 5, Application US/11077939
; Publication No. US20050196865A1
; GENERAL INFORMATION:
; APPLICANT: Frazer, Ian Hector
; TITLE OF INVENTION: Gene Expression System Based on Codon Translation Efficiency
; FILE REFERENCE: 10338-11U1
; CURRENT APPLICATION NUMBER: US/11/077,939
; CURRENT FILING DATE: 2005-03-11
; PRIOR APPLICATION NUMBER: PCT/AU2003/001200
; PRIOR FILING DATE: 2003-09-12
; PRIOR APPLICATION NUMBER: US 60/410410
; PRIOR FILING DATE: 2002-09-13
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-11-077-939-5

Query Match 100.0%; Score 55; DB 6; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YNIVTFCCK 9
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Db 52 YNIVTFCCK 60

RESULT 41
US-10-115-440-7
; Sequence 7, Application US/10115440
; Publication No. US20040086845A1
; GENERAL INFORMATION:
; APPLICANT: WU, Tzyy-Choou
; APPLICANT: HUNG, Chien-Fu
; TITLE OF INVENTION: SUPERIOR MOLECULAR VACCINE LINKING THE TRANSLOCATION DOMAIN OF A
; TITLE OF INVENTION: BACTERIAL TOXIN TO AN ANTIGEN
; FILE REFERENCE: 02240-179934
; CURRENT APPLICATION NUMBER: US/10/115,440
; CURRENT FILING DATE: 2002-09-30
; PRIOR APPLICATION NUMBER: US 60/281,003
; PRIOR FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: PCT/US00/41422
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: US 09/501,097
; PRIOR FILING DATE: 2000-02-09
; PRIOR APPLICATION NUMBER: US 09/421,608
; PRIOR FILING DATE: 1999-10-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-115-440-7

Query Match 100.0%; Score 55; DB 4; Length 99;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YNIVTFCCK 9

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              |||||||||
Db         52 YNIVTFCCK 60


RESULT 42
US-10-472-724-4
; Sequence 4, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
;  APPLICANT: Cid-Arregui, Angel
;  APPLICANT:  Zur Hausen, Harald
;  TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
;  FILE REFERENCE: 4121-154
;  CURRENT APPLICATION NUMBER: US/10/472,724
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP02/03271
;  PRIOR FILING DATE: 2002-03-22
;  PRIOR APPLICATION NUMBER: EP 01107271.7
;  PRIOR FILING DATE: 2001-03-23
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
;   LENGTH: 111
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic Construct
US-10-472-724-4

  Query Match             100.0%;  Score 55;  DB 4;  Length 111;
  Best Local Similarity   100.0%;  Pred. No. 0.23;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         57 YNIVTFCCK 65


RESULT 43
US-10-267-311-12
; Sequence 12, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
;   LENGTH: 121
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-12

  Query Match             100.0%;  Score 55;  DB 4;  Length 121;
  Best Local Similarity   100.0%;  Pred. No. 0.24;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         75 YNIVTFCCK 83


RESULT 44
US-10-679-956-12
; Sequence 12, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/679,956
;  CURRENT FILING DATE:  2003-10-06
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
;   LENGTH: 121
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-679-956-12

  Query Match             100.0%;  Score 55;  DB 5;  Length 121;
  Best Local Similarity   100.0%;  Pred. No. 0.24;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         75 YNIVTFCCK 83


RESULT 45
US-11-072-288-2
; Sequence 2, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
;  APPLICANT: KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE: 017753-122
;  CURRENT APPLICATION NUMBER: US/11/072,288
;  CURRENT FILING DATE:  2005-03-07
;  PRIOR APPLICATION NUMBER: US/09/462,993
;  PRIOR FILING DATE: 2000-04-17
;  PRIOR APPLICATION NUMBER: PCT/FR98/01576
;  PRIOR FILING DATE: 1998-07-17
;  PRIOR APPLICATION NUMBER: FR 97/09152
;  PRIOR FILING DATE: 1997-07-18
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 2
;   LENGTH: 185
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Derivated from human papillomavirus, strain
;   OTHER INFORMATION: HPV-16, E7 fusion signals of the rabies
;   OTHER INFORMATION: glycoprotein, clone E7*TMR.
US-11-072-288-2

  Query Match             100.0%;  Score 55;  DB 6;  Length 185;
  Best Local Similarity   100.0%;  Pred. No. 0.36;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         71 YNIVTFCCK 79
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RESULT 46
US-10-267-311-35
; Sequence 35, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 35
;   LENGTH: 198
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-35

  Query Match             100.0%;  Score 55;  DB 4;  Length 198;
  Best Local Similarity   100.0%;  Pred. No. 0.38;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db        152 YNIVTFCCK 160


RESULT 47
US-10-679-956-35
; Sequence 35, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/679,956
;  CURRENT FILING DATE:  2003-10-06
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 35
;   LENGTH: 198
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-679-956-35

  Query Match             100.0%;  Score 55;  DB 5;  Length 198;
  Best Local Similarity   100.0%;  Pred. No. 0.38;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db        152 YNIVTFCCK 160


RESULT 48
US-10-000-903-1
; Sequence 1, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 1
;   LENGTH: 220
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-1

  Query Match             100.0%;  Score 55;  DB 4;  Length 220;
  Best Local Similarity   100.0%;  Pred. No. 0.42;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db        165 YNIVTFCCK 173


RESULT 49
US-10-000-903-8
; Sequence 8, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 8
;   LENGTH: 220
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-8

  Query Match             100.0%;  Score 55;  DB 4;  Length 220;
  Best Local Similarity   100.0%;  Pred. No. 0.42;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db        165 YNIVTFCCK 173


RESULT 50
US-10-899-771-1
; Sequence 1, Application US/10899771
; Publication No. US20050031638A1
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; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 1
;   LENGTH: 220
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E7 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-1

  Query Match             100.0%;  Score 55;  DB 5;  Length 220;
  Best Local Similarity   100.0%;  Pred. No. 0.42;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db        165 YNIVTFCCK 173


Search completed: May  5, 2006, 08:28:12
Job time : 63 secs
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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:19:00 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-60
Perfect score: 55
Sequence: 1 YNIVTFCCK 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_New:*
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2: /SIDS5/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
3: /SIDS5/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
4: /SIDS5/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
5: /SIDS5/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
|---|---|---|---|---|---|---|
| 1 | 55 | 100.0 | 35 | 11 | US-11-041-893-101 | Sequence 101, App |
| 2 | 55 | 100.0 | 98 | 8 | US-10-511-814-8 | Sequence 8, Appli |
| 3 | 55 | 100.0 | 98 | 8 | US-10-511-814-11 | Sequence 11, Appl |
| 4 | 55 | 100.0 | 98 | 9 | US-10-530-253-14 | Sequence 14, Appl |
| 5 | 55 | 100.0 | 98 | 11 | US-11-179-478-4 | Sequence 4, Appli |
| 6 | 55 | 100.0 | 248 | 9 | US-10-530-253-1 | Sequence 1, Appli |
| 7 | 55 | 100.0 | 248 | 9 | US-10-530-253-3 | Sequence 3, Appli |
| 8 | 55 | 100.0 | 248 | 9 | US-10-530-253-5 | Sequence 5, Appli |
| 9 | 55 | 100.0 | 248 | 9 | US-10-530-253-7 | Sequence 7, Appli |
| 10 | 55 | 100.0 | 248 | 9 | US-10-530-253-9 | Sequence 9, Appli |
| 11 | 55 | 100.0 | 248 | 9 | US-10-530-253-11 | Sequence 11, Appl |
| 12 | 55 | 100.0 | 256 | 11 | US-11-192-923A-2 | Sequence 2, Appli |
| 13 | 51 | 92.7 | 98 | 9 | US-10-530-253-28 | Sequence 28, Appl |
| 14 | 47 | 85.5 | 99 | 9 | US-10-530-253-30 | Sequence 30, Appl |
| 15 | 44 | 80.0 | 10 | 9 | US-10-530-061-666 | Sequence 666, App |
| 16 | 43 | 78.2 | 10 | 9 | US-10-530-061-665 | Sequence 665, App |
| 17 | 37 | 67.3 | 107 | 9 | US-10-530-253-37 | Sequence 37, Appl |
| 18 | 36 | 65.5 | 149 | 9 | US-10-467-657-688 | Sequence 688, App |
| 19 | 35 | 63.6 | 350 | 9 | US-10-515-604-2 | Sequence 2, Appli |
| 20 | 35 | 63.6 | 553 | 11 | US-11-090-439-18 | Sequence 18, Appl |
| 21 | 35 | 63.6 | 702 | 11 | US-11-079-463-8474 | Sequence 8474, Ap |
| 22 | 34 | 61.8 | 10 | 9 | US-10-530-061-859 | Sequence 859, App |
| 23 | 34 | 61.8 | 11 | 9 | US-10-530-061-656 | Sequence 656, App |
| 24 | 34 | 61.8 | 46 | 11 | US-11-004-399-2186 | Sequence 2186, Ap |
| 25 | 34 | 61.8 | 306 | 9 | US-10-644-807-252 | Sequence 252, App |
| 26 | 34 | 61.8 | 306 | 9 | US-10-644-807-347 | Sequence 347, App |
| 27 | 34 | 61.8 | 436 | 11 | US-11-098-686-10553 | Sequence 10553, A |
| 28 | 34 | 61.8 | 489 | 11 | US-11-096-568A-31950 | Sequence 31950, A |
| 29 | 34 | 61.8 | 520 | 11 | US-11-087-099-323 | Sequence 323, App |
| 30 | 34 | 61.8 | 755 | 11 | US-11-087-099-2677 | Sequence 2677, Ap |
| 31 | 33 | 60.0 | 28 | 11 | US-11-129-741-3574 | Sequence 3574, Ap |
| 32 | 33 | 60.0 | 108 | 11 | US-11-096-568A-8617 | Sequence 8617, Ap |
| 33 | 33 | 60.0 | 112 | 11 | US-11-096-568A-8616 | Sequence 8616, Ap |
| 34 | 33 | 60.0 | 122 | 11 | US-11-096-568A-8615 | Sequence 8615, Ap |
| 35 | 33 | 60.0 | 198 | 11 | US-11-096-568A-23873 | Sequence 23873, A |
| 36 | 33 | 60.0 | 227 | 11 | US-11-096-568A-23872 | Sequence 23872, A |
| 37 | 33 | 60.0 | 407 | 11 | US-11-127-877-56 | Sequence 56, Appl |
| 38 | 33 | 60.0 | 561 | 9 | US-10-943-015-4 | Sequence 4, Appli |
| 39 | 33 | 60.0 | 850 | 9 | US-10-455-772-1074 | Sequence 1074, Ap |
| 40 | 33 | 60.0 | 911 | 9 | US-10-455-772-1078 | Sequence 1078, Ap |
| 41 | 33 | 60.0 | 915 | 9 | US-10-455-772-1076 | Sequence 1076, Ap |
| 42 | 33 | 60.0 | 921 | 9 | US-10-455-772-1080 | Sequence 1080, Ap |
| 43 | 33 | 60.0 | 978 | 9 | US-10-455-772-1072 | Sequence 1072, Ap |
| 44 | 32 | 58.2 | 9 | 9 | US-10-530-253-41 | Sequence 41, Appl |
| 45 | 32 | 58.2 | 9 | 9 | US-10-962-951-9 | Sequence 9, Appli |
| 46 | 32 | 58.2 | 9 | 11 | US-11-041-893-100 | Sequence 100, App |
| 47 | 32 | 58.2 | 9 | 11 | US-11-121-840-5 | Sequence 5, Appli |
| 48 | 32 | 58.2 | 24 | 11 | US-11-119-293-22 | Sequence 22, Appl |
| 49 | 32 | 58.2 | 25 | 11 | US-11-119-293-29 | Sequence 29, Appl |
| 50 | 32 | 58.2 | 25 | 11 | US-11-119-293-33 | Sequence 33, Appl |
| 51 | 32 | 58.2 | 123 | 11 | US-11-072-512-3934 | Sequence 3934, Ap |
| 52 | 32 | 58.2 | 155 | 11 | US-11-240-769-152 | Sequence 152, App |
| 53 | 32 | 58.2 | 160 | 11 | US-11-096-568A-439 | Sequence 439, App |
| 54 | 32 | 58.2 | 160 | 11 | US-11-096-568A-441 | Sequence 441, App |
| 55 | 32 | 58.2 | 245 | 9 | US-10-131-826A-214 | Sequence 214, App |
| 56 | 32 | 58.2 | 245 | 9 | US-10-973-115B-214 | Sequence 214, App |
| 57 | 32 | 58.2 | 245 | 9 | US-10-137-873A-214 | Sequence 214, App |
| 58 | 32 | 58.2 | 245 | 9 | US-10-152-370-214 | Sequence 214, App |
| 59 | 32 | 58.2 | 245 | 11 | US-11-290-153-214 | Sequence 214, App |
| 60 | 32 | 58.2 | 261 | 11 | US-11-188-298-2418 | Sequence 2418, Ap |
| 61 | 32 | 58.2 | 269 | 11 | US-11-188-298-10696 | Sequence 10696, A |
| 62 | 32 | 58.2 | 309 | 11 | US-11-188-298-11429 | Sequence 11429, A |
| 63 | 32 | 58.2 | 315 | 9 | US-10-467-657-1586 | Sequence 1586, Ap |
| 64 | 32 | 58.2 | 345 | 9 | US-10-453-372-758 | Sequence 758, App |
| 65 | 32 | 58.2 | 357 | 9 | US-10-453-372-760 | Sequence 760, App |
| 66 | 32 | 58.2 | 368 | 11 | US-11-079-463-6849 | Sequence 6849, Ap |
| 67 | 32 | 58.2 | 432 | 11 | US-11-079-463-5588 | Sequence 5588, Ap |
| 68 | 32 | 58.2 | 509 | 11 | US-11-155-288-8 | Sequence 8, Appli |
| 69 | 32 | 58.2 | 543 | 9 | US-10-453-372-756 | Sequence 756, App |
| 70 | 32 | 58.2 | 548 | 9 | US-10-453-372-754 | Sequence 754, App |
| 71 | 32 | 58.2 | 548 | 9 | US-10-453-372-768 | Sequence 768, App |
| 72 | 32 | 58.2 | 555 | 9 | US-10-453-372-764 | Sequence 764, App |
| 73 | 32 | 58.2 | 600 | 9 | US-10-194-487-586 | Sequence 586, App |
| 74 | 32 | 58.2 | 600 | 9 | US-10-195-883-586 | Sequence 586, App |
| 75 | 32 | 58.2 | 600 | 9 | US-10-195-888-586 | Sequence 586, App |
| 76 | 32 | 58.2 | 600 | 9 | US-10-195-889-586 | Sequence 586, App |
| 77 | 32 | 58.2 | 632 | 9 | US-10-506-454-719 | Sequence 719, App |
| 78 | 32 | 58.2 | 673 | 11 | US-11-124-368A-257 | Sequence 257, App |
| 79 | 32 | 58.2 | 766 | 9 | US-10-453-372-752 | Sequence 752, App |
| 80 | 32 | 58.2 | 1012 | 9 | US-10-511-989-12 | Sequence 12, Appl |
| 81 | 32 | 58.2 | 1302 | 11 | US-11-090-439-42 | Sequence 42, Appl |
| 82 | 31 | 56.4 | 10 | 9 | US-10-530-061-858 | Sequence 858, App |
| 83 | 31 | 56.4 | 31 | 11 | US-11-068-783-68 | Sequence 68, Appl |
| 84 | 31 | 56.4 | 31 | 11 | US-11-068-783-69 | Sequence 69, Appl |
| 85 | 31 | 56.4 | 43 | 11 | US-11-096-568A-13686 | Sequence 13686, A |
| 86 | 31 | 56.4 | 84 | 9 | US-10-644-807-261 | Sequence 261, App |
| 87 | 31 | 56.4 | 84 | 9 | US-10-644-807-360 | Sequence 360, App |
| 88 | 31 | 56.4 | 122 | 11 | US-11-098-686-10966 | Sequence 10966, A |
| 89 | 31 | 56.4 | 132 | 9 | US-10-506-454-627 | Sequence 627, App |
| 90 | 31 | 56.4 | 140 | 11 | US-11-079-463-6554 | Sequence 6554, Ap |
| 91 | 31 | 56.4 | 141 | 9 | US-10-506-454-268 | Sequence 268, App |
| 92 | 31 | 56.4 | 169 | 11 | US-11-096-568A-3925 | Sequence 3925, Ap |
| 93 | 31 | 56.4 | 192 | 7 | US-09-940-308-4 | Sequence 4, Appli |
| 94 | 31 | 56.4 | 223 | 11 | US-11-096-568A-3924 | Sequence 3924, Ap |

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| 95 | 31 | 56.4 | 249 | 9 | US-10-485-517-157 | Sequence 157, App |
| 96 | 31 | 56.4 | 249 | 11 | US-11-072-512-2058 | Sequence 2058, Ap |
| 97 | 31 | 56.4 | 255 | 11 | US-11-079-463-9812 | Sequence 9812, Ap |
| 98 | 31 | 56.4 | 256 | 9 | US-10-793-626-2596 | Sequence 2596, Ap |
| 99 | 31 | 56.4 | 267 | 9 | US-10-793-626-334 | Sequence 334, App |
| 100 | 31 | 56.4 | 320 | 9 | US-10-793-626-1786 | Sequence 1786, Ap |
| 101 | 31 | 56.4 | 325 | 7 | US-09-940-308-8 | Sequence 8, Appli |
| 102 | 31 | 56.4 | 328 | 11 | US-11-155-595-2 | Sequence 2, Appli |
| 103 | 31 | 56.4 | 344 | 9 | US-10-453-372-190 | Sequence 190, App |
| 104 | 31 | 56.4 | 375 | 9 | US-10-506-454-954 | Sequence 954, App |
| 105 | 31 | 56.4 | 389 | 7 | US-09-940-308-6 | Sequence 6, Appli |
| 106 | 31 | 56.4 | 393 | 7 | US-09-940-308-7 | Sequence 7, Appli |
| 107 | 31 | 56.4 | 406 | 9 | US-10-453-372-188 | Sequence 188, App |
| 108 | 31 | 56.4 | 423 | 11 | US-11-098-686-10135 | Sequence 10135, A |
| 109 | 31 | 56.4 | 435 | 11 | US-11-087-099-10693 | Sequence 10693, A |
| 110 | 31 | 56.4 | 510 | 11 | US-11-093-814-1 | Sequence 1, Appli |
| 111 | 31 | 56.4 | 517 | 8 | US-10-505-928-763 | Sequence 763, App |
| 112 | 31 | 56.4 | 590 | 7 | US-09-940-308-2 | Sequence 2, Appli |
| 113 | 31 | 56.4 | 737 | 11 | US-11-128-420-9 | Sequence 9, Appli |
| 114 | 31 | 56.4 | 760 | 8 | US-10-505-928-50 | Sequence 50, Appl |
| 115 | 31 | 56.4 | 1854 | 11 | US-11-180-074-4 | Sequence 4, Appli |
| 116 | 31 | 56.4 | 2050 | 9 | US-10-453-372-192 | Sequence 192, App |
| 117 | 31 | 56.4 | 3063 | 11 | US-11-186-284-26 | Sequence 26, Appl |
| 118 | 31 | 56.4 | 3568 | 9 | US-10-453-372-194 | Sequence 194, App |
| 119 | 31 | 56.4 | 3570 | 9 | US-10-453-372-178 | Sequence 178, App |
| 120 | 31 | 56.4 | 3570 | 9 | US-10-453-372-196 | Sequence 196, App |
| 121 | 31 | 56.4 | 3570 | 9 | US-10-453-372-198 | Sequence 198, App |
| 122 | 31 | 56.4 | 3570 | 9 | US-10-453-372-200 | Sequence 200, App |
| 123 | 31 | 56.4 | 3570 | 9 | US-10-453-372-202 | Sequence 202, App |
| 124 | 31 | 56.4 | 3570 | 9 | US-10-453-372-204 | Sequence 204, App |
| 125 | 31 | 56.4 | 3570 | 9 | US-10-453-372-206 | Sequence 206, App |
| 126 | 30.5 | 55.5 | 409 | 9 | US-10-533-811-57 | Sequence 57, Appl |
| 127 | 30 | 54.5 | 13 | 11 | US-11-198-847-195 | Sequence 195, App |
| 128 | 30 | 54.5 | 25 | 11 | US-11-119-293-16 | Sequence 16, Appl |
| 129 | 30 | 54.5 | 33 | 9 | US-10-971-559-18 | Sequence 18, Appl |
| 130 | 30 | 54.5 | 50 | 11 | US-11-121-301-70 | Sequence 70, Appl |
| 131 | 30 | 54.5 | 51 | 11 | US-11-000-463-362 | Sequence 362, App |
| 132 | 30 | 54.5 | 51 | 11 | US-11-000-463-834 | Sequence 834, App |
| 133 | 30 | 54.5 | 78 | 9 | US-10-948-571-99 | Sequence 99, Appl |
| 134 | 30 | 54.5 | 96 | 9 | US-10-467-657-8984 | Sequence 8984, Ap |
| 135 | 30 | 54.5 | 99 | 9 | US-10-530-253-34 | Sequence 34, Appl |
| 136 | 30 | 54.5 | 124 | 9 | US-10-218-784-28 | Sequence 28, Appl |
| 137 | 30 | 54.5 | 124 | 9 | US-10-219-061-28 | Sequence 28, Appl |
| 138 | 30 | 54.5 | 124 | 9 | US-10-219-062-28 | Sequence 28, Appl |
| 139 | 30 | 54.5 | 124 | 9 | US-10-219-064-28 | Sequence 28, Appl |
| 140 | 30 | 54.5 | 124 | 9 | US-10-233-134-28 | Sequence 28, Appl |
| 141 | 30 | 54.5 | 130 | 11 | US-11-096-568A-13220 | Sequence 13220, A |
| 142 | 30 | 54.5 | 142 | 11 | US-11-096-568A-538 | Sequence 538, App |
| 143 | 30 | 54.5 | 151 | 11 | US-11-096-568A-13219 | Sequence 13219, A |
| 144 | 30 | 54.5 | 155 | 11 | US-11-096-568A-9449 | Sequence 9449, Ap |
| 145 | 30 | 54.5 | 164 | 11 | US-11-072-512-2321 | Sequence 2321, Ap |
| 146 | 30 | 54.5 | 166 | 11 | US-11-176-830-1296 | Sequence 1296, Ap |
| 147 | 30 | 54.5 | 166 | 11 | US-11-196-067-492 | Sequence 492, App |
| 148 | 30 | 54.5 | 174 | 11 | US-11-096-568A-9448 | Sequence 9448, Ap |
| 149 | 30 | 54.5 | 180 | 11 | US-11-079-463-5368 | Sequence 5368, Ap |
| 150 | 30 | 54.5 | 187 | 11 | US-11-172-740-2206 | Sequence 2206, Ap |
| 151 | 30 | 54.5 | 187 | 11 | US-11-172-740-2208 | Sequence 2208, Ap |
| 152 | 30 | 54.5 | 192 | 11 | US-11-172-740-2205 | Sequence 2205, Ap |
| 153 | 30 | 54.5 | 192 | 11 | US-11-172-740-2207 | Sequence 2207, Ap |
| 154 | 30 | 54.5 | 207 | 9 | US-10-793-626-1730 | Sequence 1730, Ap |
| 155 | 30 | 54.5 | 207 | 11 | US-11-079-463-8284 | Sequence 8284, Ap |
| 156 | 30 | 54.5 | 207 | 11 | US-11-079-463-9986 | Sequence 9986, Ap |
| 157 | 30 | 54.5 | 214 | 9 | US-10-515-417-11 | Sequence 11, Appl |
| 158 | 30 | 54.5 | 216 | 11 | US-11-172-740-344 | Sequence 344, App |
| 159 | 30 | 54.5 | 234 | 11 | US-11-172-740-343 | Sequence 343, App |
| 160 | 30 | 54.5 | 234 | 11 | US-11-172-740-350 | Sequence 350, App |
| 161 | 30 | 54.5 | 238 | 9 | US-10-515-417-9 | Sequence 9, Appli |
| 162 | 30 | 54.5 | 238 | 11 | US-11-172-740-342 | Sequence 342, App |
| 163 | 30 | 54.5 | 245 | 9 | US-10-745-586-159 | Sequence 159, App |
| 164 | 30 | 54.5 | 246 | 11 | US-11-079-463-7051 | Sequence 7051, Ap |
| 165 | 30 | 54.5 | 257 | 11 | US-11-096-568A-30233 | Sequence 30233, A |
| 166 | 30 | 54.5 | 258 | 11 | US-11-040-595-22 | Sequence 22, Appl |
| 167 | 30 | 54.5 | 258 | 11 | US-11-079-463-6003 | Sequence 6003, Ap |
| 168 | 30 | 54.5 | 272 | 11 | US-11-045-004-1619 | Sequence 1619, Ap |
| 169 | 30 | 54.5 | 275 | 11 | US-11-072-512-3627 | Sequence 3627, Ap |
| 170 | 30 | 54.5 | 281 | 11 | US-11-172-740-349 | Sequence 349, App |
| 171 | 30 | 54.5 | 297 | 9 | US-10-453-372-766 | Sequence 766, App |
| 172 | 30 | 54.5 | 310 | 11 | US-11-087-099-3184 | Sequence 3184, Ap |
| 173 | 30 | 54.5 | 312 | 11 | US-11-096-568A-15327 | Sequence 15327, A |
| 174 | 30 | 54.5 | 317 | 11 | US-11-096-568A-30232 | Sequence 30232, A |
| 175 | 30 | 54.5 | 322 | 11 | US-11-096-568A-27971 | Sequence 27971, A |
| 176 | 30 | 54.5 | 322 | 11 | US-11-096-568A-30231 | Sequence 30231, A |
| 177 | 30 | 54.5 | 324 | 11 | US-11-087-099-3409 | Sequence 3409, Ap |
| 178 | 30 | 54.5 | 326 | 11 | US-11-096-568A-15326 | Sequence 15326, A |
| 179 | 30 | 54.5 | 329 | 11 | US-11-096-568A-27970 | Sequence 27970, A |
| 180 | 30 | 54.5 | 336 | 11 | US-11-099-691-8 | Sequence 8, Appli |
| 181 | 30 | 54.5 | 345 | 11 | US-11-210-316-14 | Sequence 14, Appl |
| 182 | 30 | 54.5 | 352 | 9 | US-10-218-784-216 | Sequence 216, App |
| 183 | 30 | 54.5 | 352 | 9 | US-10-219-061-216 | Sequence 216, App |
| 184 | 30 | 54.5 | 352 | 9 | US-10-219-062-216 | Sequence 216, App |
| 185 | 30 | 54.5 | 352 | 9 | US-10-219-064-216 | Sequence 216, App |
| 186 | 30 | 54.5 | 352 | 9 | US-10-233-134-216 | Sequence 216, App |
| 187 | 30 | 54.5 | 362 | 11 | US-11-096-568A-27969 | Sequence 27969, A |
| 188 | 30 | 54.5 | 365 | 8 | US-10-505-928-148 | Sequence 148, App |
| 189 | 30 | 54.5 | 365 | 11 | US-11-102-978-9 | Sequence 9, Appli |
| 190 | 30 | 54.5 | 365 | 11 | US-11-080-991-78 | Sequence 78, Appl |
| 191 | 30 | 54.5 | 389 | 11 | US-11-096-568A-15325 | Sequence 15325, A |
| 192 | 30 | 54.5 | 419 | 11 | US-11-087-099-10606 | Sequence 10606, A |
| 193 | 30 | 54.5 | 437 | 11 | US-11-087-099-5390 | Sequence 5390, Ap |
| 194 | 30 | 54.5 | 439 | 11 | US-11-087-099-2654 | Sequence 2654, Ap |
| 195 | 30 | 54.5 | 442 | 11 | US-11-087-099-3716 | Sequence 3716, Ap |
| 196 | 30 | 54.5 | 446 | 11 | US-11-087-099-3804 | Sequence 3804, Ap |
| 197 | 30 | 54.5 | 450 | 11 | US-11-087-099-4313 | Sequence 4313, Ap |
| 198 | 30 | 54.5 | 450 | 11 | US-11-087-099-6129 | Sequence 6129, Ap |
| 199 | 30 | 54.5 | 457 | 11 | US-11-087-099-9561 | Sequence 9561, Ap |
| 200 | 30 | 54.5 | 469 | 11 | US-11-087-099-2731 | Sequence 2731, Ap |
| 201 | 30 | 54.5 | 493 | 11 | US-11-098-686-10844 | Sequence 10844, A |
| 202 | 30 | 54.5 | 517 | 11 | US-11-087-099-5778 | Sequence 5778, Ap |
| 203 | 30 | 54.5 | 549 | 11 | US-11-096-568A-4707 | Sequence 4707, Ap |
| 204 | 30 | 54.5 | 557 | 11 | US-11-096-568A-4706 | Sequence 4706, Ap |
| 205 | 30 | 54.5 | 571 | 11 | US-11-079-463-8124 | Sequence 8124, Ap |
| 206 | 30 | 54.5 | 585 | 11 | US-11-096-568A-4705 | Sequence 4705, Ap |
| 207 | 30 | 54.5 | 620 | 8 | US-10-505-928-284 | Sequence 284, App |
| 208 | 30 | 54.5 | 633 | 9 | US-10-943-015-10 | Sequence 10, Appl |
| 209 | 30 | 54.5 | 699 | 11 | US-11-072-512-2814 | Sequence 2814, Ap |
| 210 | 30 | 54.5 | 747 | 11 | US-11-210-316-2 | Sequence 2, Appli |
| 211 | 30 | 54.5 | 796 | 11 | US-11-098-686-10187 | Sequence 10187, A |
| 212 | 30 | 54.5 | 816 | 11 | US-11-072-512-2050 | Sequence 2050, Ap |
| 213 | 30 | 54.5 | 862 | 11 | US-11-188-298-7416 | Sequence 7416, Ap |
| 214 | 30 | 54.5 | 3353 | 11 | US-11-037-243-64 | Sequence 64, Appl |
| 215 | 29.5 | 53.6 | 385 | 11 | US-11-096-568A-34357 | Sequence 34357, A |
| 216 | 29.5 | 53.6 | 459 | 11 | US-11-096-568A-34356 | Sequence 34356, A |
| 217 | 29.5 | 53.6 | 463 | 11 | US-11-096-568A-34355 | Sequence 34355, A |
| 218 | 29 | 52.7 | 14 | 11 | US-11-198-847-9 | Sequence 9, Appli |
| 219 | 29 | 52.7 | 26 | 9 | US-10-895-064-419 | Sequence 419, App |
| 220 | 29 | 52.7 | 26 | 11 | US-11-119-293-24 | Sequence 24, Appl |
| 221 | 29 | 52.7 | 26 | 11 | US-11-119-293-26 | Sequence 26, Appl |
| 222 | 29 | 52.7 | 26 | 11 | US-11-129-741-419 | Sequence 419, App |
| 223 | 29 | 52.7 | 27 | 11 | US-11-198-847-147 | Sequence 147, App |
| 224 | 29 | 52.7 | 33 | 11 | US-11-121-301-33 | Sequence 33, Appl |
| 225 | 29 | 52.7 | 52 | 11 | US-11-096-568A-1159 | Sequence 1159, Ap |
| 226 | 29 | 52.7 | 56 | 9 | US-10-921-415-3 | Sequence 3, Appli |
| 227 | 29 | 52.7 | 93 | 11 | US-11-079-463-6977 | Sequence 6977, Ap |
| 228 | 29 | 52.7 | 95 | 11 | US-11-264-096-766 | Sequence 766, App |
| 229 | 29 | 52.7 | 102 | 10 | US-11-301-554-1675 | Sequence 1675, Ap |
| 230 | 29 | 52.7 | 109 | 11 | US-11-096-568A-13268 | Sequence 13268, A |
| 231 | 29 | 52.7 | 118 | 9 | US-10-467-657-390 | Sequence 390, App |
| 232 | 29 | 52.7 | 125 | 11 | US-11-188-298-20310 | Sequence 20310, A |
| 233 | 29 | 52.7 | 126 | 11 | US-11-153-071-44 | Sequence 44, Appl |
| 234 | 29 | 52.7 | 127 | 11 | US-11-072-512-2959 | Sequence 2959, Ap |
| 235 | 29 | 52.7 | 134 | 9 | US-10-921-415-4 | Sequence 4, Appli |
| 236 | 29 | 52.7 | 134 | 11 | US-11-084-591-2 | Sequence 2, Appli |
| 237 | 29 | 52.7 | 157 | 11 | US-11-153-071-20 | Sequence 20, Appl |
| 238 | 29 | 52.7 | 157 | 11 | US-11-188-298-1360 | Sequence 1360, Ap |
| 239 | 29 | 52.7 | 158 | 11 | US-11-096-568A-17737 | Sequence 17737, A |
| 240 | 29 | 52.7 | 164 | 11 | US-11-096-568A-16546 | Sequence 16546, A |

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| 241 | 29 | 52.7 | 170 | 11 | US-11-087-099-6174 | Sequence 6174, Ap |
| 242 | 29 | 52.7 | 173 | 11 | US-11-096-568A-17736 | Sequence 17736, A |
| 243 | 29 | 52.7 | 179 | 11 | US-11-079-463-5447 | Sequence 5447, Ap |
| 244 | 29 | 52.7 | 212 | 11 | US-11-098-686-10136 | Sequence 10136, A |
| 245 | 29 | 52.7 | 212 | 11 | US-11-172-740-348 | Sequence 348, App |
| 246 | 29 | 52.7 | 225 | 11 | US-11-087-099-6616 | Sequence 6616, Ap |
| 247 | 29 | 52.7 | 232 | 11 | US-11-156-516-39 | Sequence 39, Appl |
| 248 | 29 | 52.7 | 251 | 11 | US-11-096-568A-16545 | Sequence 16545, A |
| 249 | 29 | 52.7 | 270 | 11 | US-11-172-740-347 | Sequence 347, App |
| 250 | 29 | 52.7 | 275 | 11 | US-11-188-298-17357 | Sequence 17357, A |
| 251 | 29 | 52.7 | 275 | 11 | US-11-188-298-22510 | Sequence 22510, A |
| 252 | 29 | 52.7 | 276 | 9 | US-10-515-417-7 | Sequence 7, Appli |
| 253 | 29 | 52.7 | 276 | 11 | US-11-096-568A-16544 | Sequence 16544, A |
| 254 | 29 | 52.7 | 283 | 11 | US-11-096-568A-11537 | Sequence 11537, A |
| 255 | 29 | 52.7 | 347 | 11 | US-11-087-099-4946 | Sequence 4946, Ap |
| 256 | 29 | 52.7 | 354 | 11 | US-11-096-568A-11536 | Sequence 11536, A |
| 257 | 29 | 52.7 | 364 | 9 | US-10-194-487-36 | Sequence 36, Appl |
| 258 | 29 | 52.7 | 364 | 9 | US-10-195-883-36 | Sequence 36, Appl |
| 259 | 29 | 52.7 | 364 | 9 | US-10-195-888-36 | Sequence 36, Appl |
| 260 | 29 | 52.7 | 364 | 9 | US-10-195-889-36 | Sequence 36, Appl |
| 261 | 29 | 52.7 | 364 | 9 | US-10-216-161A-515 | Sequence 515, App |
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| 263 | 29 | 52.7 | 375 | 11 | US-11-079-463-7927 | Sequence 7927, Ap |
| 264 | 29 | 52.7 | 376 | 11 | US-11-096-568A-11535 | Sequence 11535, A |
| 265 | 29 | 52.7 | 382 | 11 | US-11-096-568A-12912 | Sequence 12912, A |
| 266 | 29 | 52.7 | 391 | 8 | US-10-505-928-293 | Sequence 293, App |
| 267 | 29 | 52.7 | 411 | 11 | US-11-188-298-8398 | Sequence 8398, Ap |
| 268 | 29 | 52.7 | 420 | 11 | US-11-188-298-13168 | Sequence 13168, A |
| 269 | 29 | 52.7 | 420 | 11 | US-11-188-298-15666 | Sequence 15666, A |
| 270 | 29 | 52.7 | 424 | 11 | US-11-090-439-5 | Sequence 5, Appli |
| 271 | 29 | 52.7 | 426 | 11 | US-11-096-568A-12503 | Sequence 12503, A |
| 272 | 29 | 52.7 | 428 | 9 | US-10-330-773-647 | Sequence 647, App |
| 273 | 29 | 52.7 | 438 | 11 | US-11-096-568A-12502 | Sequence 12502, A |
| 274 | 29 | 52.7 | 443 | 11 | US-11-188-298-10912 | Sequence 10912, A |
| 275 | 29 | 52.7 | 446 | 11 | US-11-096-568A-2026 | Sequence 2026, Ap |
| 276 | 29 | 52.7 | 447 | 11 | US-11-087-099-8120 | Sequence 8120, Ap |
| 277 | 29 | 52.7 | 450 | 11 | US-11-079-463-8877 | Sequence 8877, Ap |
| 278 | 29 | 52.7 | 453 | 11 | US-11-096-568A-2025 | Sequence 2025, Ap |
| 279 | 29 | 52.7 | 457 | 11 | US-11-098-686-11066 | Sequence 11066, A |
| 280 | 29 | 52.7 | 460 | 11 | US-11-096-568A-6862 | Sequence 6862, Ap |
| 281 | 29 | 52.7 | 465 | 11 | US-11-169-041-173 | Sequence 173, App |
| 282 | 29 | 52.7 | 466 | 11 | US-11-188-298-2639 | Sequence 2639, Ap |
| 283 | 29 | 52.7 | 484 | 11 | US-11-146-428-108 | Sequence 108, App |
| 284 | 29 | 52.7 | 486 | 9 | US-10-467-962B-59 | Sequence 59, Appl |
| 285 | 29 | 52.7 | 493 | 9 | US-10-508-263-30 | Sequence 30, Appl |
| 286 | 29 | 52.7 | 548 | 11 | US-11-096-568A-2024 | Sequence 2024, Ap |
| 287 | 29 | 52.7 | 553 | 11 | US-11-079-463-5269 | Sequence 5269, Ap |
| 288 | 29 | 52.7 | 571 | 11 | US-11-087-099-7090 | Sequence 7090, Ap |
| 289 | 29 | 52.7 | 579 | 11 | US-11-079-463-7883 | Sequence 7883, Ap |
| 290 | 29 | 52.7 | 737 | 11 | US-11-210-316-8 | Sequence 8, Appli |
| 291 | 29 | 52.7 | 747 | 9 | US-10-131-826A-426 | Sequence 426, App |
| 292 | 29 | 52.7 | 747 | 9 | US-10-973-115B-426 | Sequence 426, App |
| 293 | 29 | 52.7 | 747 | 9 | US-10-216-161A-459 | Sequence 459, App |
| 294 | 29 | 52.7 | 747 | 9 | US-10-137-873A-426 | Sequence 426, App |
| 295 | 29 | 52.7 | 747 | 9 | US-10-152-370-426 | Sequence 426, App |
| 296 | 29 | 52.7 | 747 | 11 | US-11-290-153-426 | Sequence 426, App |
| 297 | 29 | 52.7 | 755 | 9 | US-10-501-841-80 | Sequence 80, Appl |
| 298 | 29 | 52.7 | 770 | 9 | US-10-501-841-84 | Sequence 84, Appl |
| 299 | 29 | 52.7 | 770 | 11 | US-11-072-512-2533 | Sequence 2533, Ap |
| 300 | 29 | 52.7 | 810 | 11 | US-11-192-813-2 | Sequence 2, Appli |
| 301 | 29 | 52.7 | 810 | 11 | US-11-192-813-6 | Sequence 6, Appli |
| 302 | 29 | 52.7 | 816 | 9 | US-10-501-841-82 | Sequence 82, Appl |
| 303 | 29 | 52.7 | 864 | 9 | US-10-499-246-2 | Sequence 2, Appli |
| 304 | 29 | 52.7 | 884 | 11 | US-11-098-686-11426 | Sequence 11426, A |
| 305 | 29 | 52.7 | 1033 | 9 | US-10-921-415-1 | Sequence 1, Appli |
| 306 | 29 | 52.7 | 1033 | 9 | US-10-501-841-15 | Sequence 15, Appl |
| 307 | 29 | 52.7 | 1075 | 11 | US-11-089-551A-23 | Sequence 23, Appl |
| 308 | 29 | 52.7 | 1167 | 11 | US-11-096-568A-28971 | Sequence 28971, A |
| 309 | 29 | 52.7 | 1169 | 11 | US-11-096-568A-31176 | Sequence 31176, A |
| 310 | 29 | 52.7 | 1190 | 11 | US-11-043-889-20 | Sequence 20, Appl |
| 311 | 29 | 52.7 | 1191 | 11 | US-11-188-298-20587 | Sequence 20587, A |
| 312 | 29 | 52.7 | 1216 | 11 | US-11-096-568A-28970 | Sequence 28970, A |
| 313 | 29 | 52.7 | 1218 | 11 | US-11-096-568A-31175 | Sequence 31175, A |
| 314 | 29 | 52.7 | 1251 | 11 | US-11-043-889-22 | Sequence 22, Appl |
| 315 | 29 | 52.7 | 1431 | 9 | US-10-501-035-220 | Sequence 220, App |
| 316 | 29 | 52.7 | 3460 | 8 | US-10-505-928-104 | Sequence 104, App |
| 317 | 28.5 | 51.8 | 101 | 9 | US-10-467-657-7350 | Sequence 7350, Ap |
| 318 | 28.5 | 51.8 | 274 | 8 | US-10-370-959-83 | Sequence 83, Appl |
| 319 | 28.5 | 51.8 | 413 | 11 | US-11-096-568A-18984 | Sequence 18984, A |
| 320 | 28.5 | 51.8 | 501 | 11 | US-11-096-568A-18983 | Sequence 18983, A |
| 321 | 28.5 | 51.8 | 510 | 11 | US-11-096-568A-18982 | Sequence 18982, A |
| 322 | 28 | 50.9 | 13 | 11 | US-11-198-847-275 | Sequence 275, App |
| 323 | 28 | 50.9 | 14 | 11 | US-11-198-847-228 | Sequence 228, App |
| 324 | 28 | 50.9 | 14 | 11 | US-11-198-847-278 | Sequence 278, App |
| 325 | 28 | 50.9 | 15 | 9 | US-10-530-061-1910 | Sequence 1910, Ap |
| 326 | 28 | 50.9 | 16 | 9 | US-10-530-061-1911 | Sequence 1911, Ap |
| 327 | 28 | 50.9 | 16 | 11 | US-11-004-399-1541 | Sequence 1541, Ap |
| 328 | 28 | 50.9 | 20 | 11 | US-11-004-399-327 | Sequence 327, App |
| 329 | 28 | 50.9 | 20 | 11 | US-11-004-399-658 | Sequence 658, App |
| 330 | 28 | 50.9 | 20 | 11 | US-11-004-399-3688 | Sequence 3688, Ap |
| 331 | 28 | 50.9 | 21 | 9 | US-10-895-064-931 | Sequence 931, App |
| 332 | 28 | 50.9 | 21 | 11 | US-11-129-741-931 | Sequence 931, App |
| 333 | 28 | 50.9 | 21 | 11 | US-11-129-741-3928 | Sequence 3928, Ap |
| 334 | 28 | 50.9 | 25 | 11 | US-11-119-293-30 | Sequence 30, Appl |
| 335 | 28 | 50.9 | 29 | 11 | US-11-198-847-6 | Sequence 6, Appli |
| 336 | 28 | 50.9 | 30 | 11 | US-11-174-996A-17 | Sequence 17, Appl |
| 337 | 28 | 50.9 | 30 | 11 | US-11-174-996A-18 | Sequence 18, Appl |
| 338 | 28 | 50.9 | 30 | 11 | US-11-174-996A-21 | Sequence 21, Appl |
| 339 | 28 | 50.9 | 30 | 11 | US-11-174-996A-47 | Sequence 47, Appl |
| 340 | 28 | 50.9 | 52 | 11 | US-11-123-896-288 | Sequence 288, App |
| 341 | 28 | 50.9 | 64 | 11 | US-11-174-996A-89 | Sequence 89, Appl |
| 342 | 28 | 50.9 | 67 | 11 | US-11-079-463-6163 | Sequence 6163, Ap |
| 343 | 28 | 50.9 | 75 | 11 | US-11-174-996A-91 | Sequence 91, Appl |
| 344 | 28 | 50.9 | 75 | 11 | US-11-174-996A-97 | Sequence 97, Appl |
| 345 | 28 | 50.9 | 82 | 11 | US-11-123-896-287 | Sequence 287, App |
| 346 | 28 | 50.9 | 94 | 11 | US-11-198-847-194 | Sequence 194, App |
| 347 | 28 | 50.9 | 94 | 11 | US-11-096-568A-17892 | Sequence 17892, A |
| 348 | 28 | 50.9 | 95 | 7 | US-09-978-360A-591 | Sequence 591, App |
| 349 | 28 | 50.9 | 95 | 11 | US-11-198-847-227 | Sequence 227, App |
| 350 | 28 | 50.9 | 106 | 9 | US-10-530-253-32 | Sequence 32, Appl |
| 351 | 28 | 50.9 | 110 | 9 | US-10-467-657-444 | Sequence 444, App |
| 352 | 28 | 50.9 | 114 | 11 | US-11-096-568A-14003 | Sequence 14003, A |
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| 354 | 28 | 50.9 | 140 | 9 | US-10-821-234-1347 | Sequence 1347, Ap |
| 355 | 28 | 50.9 | 159 | 11 | US-11-264-728-46 | Sequence 46, Appl |
| 356 | 28 | 50.9 | 168 | 11 | US-11-096-568A-33516 | Sequence 33516, A |
| 357 | 28 | 50.9 | 180 | 11 | US-11-087-099-2432 | Sequence 2432, Ap |
| 358 | 28 | 50.9 | 180 | 11 | US-11-079-463-8262 | Sequence 8262, Ap |
| 359 | 28 | 50.9 | 182 | 11 | US-11-188-298-18765 | Sequence 18765, A |
| 360 | 28 | 50.9 | 189 | 11 | US-11-096-568A-15696 | Sequence 15696, A |
| 361 | 28 | 50.9 | 192 | 11 | US-11-096-568A-21513 | Sequence 21513, A |
| 362 | 28 | 50.9 | 198 | 11 | US-11-096-568A-21512 | Sequence 21512, A |
| 363 | 28 | 50.9 | 202 | 11 | US-11-188-298-8442 | Sequence 8442, Ap |
| 364 | 28 | 50.9 | 211 | 11 | US-11-096-568A-33515 | Sequence 33515, A |
| 365 | 28 | 50.9 | 211 | 11 | US-11-188-298-19648 | Sequence 19648, A |
| 366 | 28 | 50.9 | 231 | 11 | US-11-098-686-10947 | Sequence 10947, A |
| 367 | 28 | 50.9 | 243 | 11 | US-11-096-568A-32423 | Sequence 32423, A |
| 368 | 28 | 50.9 | 251 | 11 | US-11-096-568A-5087 | Sequence 5087, Ap |
| 369 | 28 | 50.9 | 253 | 11 | US-11-096-568A-23819 | Sequence 23819, A |
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| 371 | 28 | 50.9 | 257 | 11 | US-11-096-568A-28419 | Sequence 28419, A |
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| 374 | 28 | 50.9 | 265 | 11 | US-11-096-568A-23818 | Sequence 23818, A |
| 375 | 28 | 50.9 | 270 | 11 | US-11-079-463-10002 | Sequence 10002, A |
| 376 | 28 | 50.9 | 281 | 9 | US-10-055-877-125 | Sequence 125, App |
| 377 | 28 | 50.9 | 281 | 9 | US-10-055-877-262 | Sequence 262, App |
| 378 | 28 | 50.9 | 281 | 9 | US-10-491-468-2 | Sequence 2, Appli |
| 379 | 28 | 50.9 | 281 | 11 | US-11-087-177-15 | Sequence 15, Appl |
| 380 | 28 | 50.9 | 281 | 11 | US-11-087-177-17 | Sequence 17, Appl |
| 381 | 28 | 50.9 | 287 | 9 | US-10-793-626-2538 | Sequence 2538, Ap |
| 382 | 28 | 50.9 | 288 | 11 | US-11-096-568A-23817 | Sequence 23817, A |
| 383 | 28 | 50.9 | 293 | 9 | US-10-793-626-626 | Sequence 626, App |
| 384 | 28 | 50.9 | 293 | 9 | US-10-793-626-2602 | Sequence 2602, Ap |
| 385 | 28 | 50.9 | 295 | 11 | US-11-113-424-34 | Sequence 34, Appl |
| 386 | 28 | 50.9 | 296 | 11 | US-11-229-769-293 | Sequence 293, App |

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| 388 | 28 | 50.9 | 331 | 9 | US-10-498-026-79 | Sequence 79, Appl |
| 389 | 28 | 50.9 | 337 | 11 | US-11-079-463-6293 | Sequence 6293, Ap |
| 390 | 28 | 50.9 | 349 | 11 | US-11-129-143-59 | Sequence 59, Appl |
| 391 | 28 | 50.9 | 379 | 9 | US-10-506-454-461 | Sequence 461, App |
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| 393 | 28 | 50.9 | 396 | 11 | US-11-079-463-7434 | Sequence 7434, Ap |
| 394 | 28 | 50.9 | 422 | 11 | US-11-096-568A-30165 | Sequence 30165, A |
| 395 | 28 | 50.9 | 425 | 11 | US-11-096-568A-27574 | Sequence 27574, A |
| 396 | 28 | 50.9 | 431 | 11 | US-11-072-512-3894 | Sequence 3894, Ap |
| 397 | 28 | 50.9 | 433 | 11 | US-11-098-686-11230 | Sequence 11230, A |
| 398 | 28 | 50.9 | 439 | 11 | US-11-188-298-1773 | Sequence 1773, Ap |
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| 400 | 28 | 50.9 | 445 | 11 | US-11-188-298-7283 | Sequence 7283, Ap |
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| 402 | 28 | 50.9 | 451 | 9 | US-10-915-160-6 | Sequence 6, Appli |
| 403 | 28 | 50.9 | 452 | 11 | US-11-198-886-21 | Sequence 21, Appl |
| 404 | 28 | 50.9 | 454 | 11 | US-11-096-568A-27573 | Sequence 27573, A |
| 405 | 28 | 50.9 | 456 | 9 | US-10-991-285-893 | Sequence 893, App |
| 406 | 28 | 50.9 | 462 | 11 | US-11-045-004-531 | Sequence 531, App |
| 407 | 28 | 50.9 | 464 | 9 | US-10-689-742-164 | Sequence 164, App |
| 408 | 28 | 50.9 | 464 | 11 | US-11-045-004-2422 | Sequence 2422, Ap |
| 409 | 28 | 50.9 | 467 | 11 | US-11-045-004-1394 | Sequence 1394, Ap |
| 410 | 28 | 50.9 | 470 | 9 | US-10-915-160-4 | Sequence 4, Appli |
| 411 | 28 | 50.9 | 470 | 11 | US-11-096-568A-23556 | Sequence 23556, A |
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| 413 | 28 | 50.9 | 470 | 11 | US-11-188-298-3798 | Sequence 3798, Ap |
| 414 | 28 | 50.9 | 471 | 11 | US-11-079-463-9442 | Sequence 9442, Ap |
| 415 | 28 | 50.9 | 471 | 11 | US-11-188-298-12350 | Sequence 12350, A |
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| 417 | 28 | 50.9 | 492 | 11 | US-11-072-512-1974 | Sequence 1974, Ap |
| 418 | 28 | 50.9 | 492 | 11 | US-11-072-512-3223 | Sequence 3223, Ap |
| 419 | 28 | 50.9 | 499 | 9 | US-10-330-773-491 | Sequence 491, App |
| 420 | 28 | 50.9 | 502 | 11 | US-11-098-686-10506 | Sequence 10506, A |
| 421 | 28 | 50.9 | 508 | 9 | US-10-915-160-2 | Sequence 2, Appli |
| 422 | 28 | 50.9 | 516 | 11 | US-11-072-512-2033 | Sequence 2033, Ap |
| 423 | 28 | 50.9 | 532 | 11 | US-11-127-877-42 | Sequence 42, Appl |
| 424 | 28 | 50.9 | 559 | 11 | US-11-096-568A-27572 | Sequence 27572, A |
| 425 | 28 | 50.9 | 560 | 11 | US-11-087-099-3291 | Sequence 3291, Ap |
| 426 | 28 | 50.9 | 560 | 11 | US-11-188-298-14097 | Sequence 14097, A |
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| 428 | 28 | 50.9 | 582 | 8 | US-10-505-928-813 | Sequence 813, App |
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| 430 | 28 | 50.9 | 582 | 11 | US-11-169-041-130 | Sequence 130, App |
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| 432 | 28 | 50.9 | 591 | 11 | US-11-098-686-11119 | Sequence 11119, A |
| 433 | 28 | 50.9 | 605 | 11 | US-11-046-653-3 | Sequence 3, Appli |
| 434 | 28 | 50.9 | 628 | 11 | US-11-183-136-12 | Sequence 12, Appl |
| 435 | 28 | 50.9 | 683 | 9 | US-10-330-773-346 | Sequence 346, App |
| 436 | 28 | 50.9 | 686 | 11 | US-11-087-099-9524 | Sequence 9524, Ap |
| 437 | 28 | 50.9 | 687 | 9 | US-10-821-234-1197 | Sequence 1197, Ap |
| 438 | 28 | 50.9 | 702 | 9 | US-10-330-773-341 | Sequence 341, App |
| 439 | 28 | 50.9 | 710 | 11 | US-11-045-004-818 | Sequence 818, App |
| 440 | 28 | 50.9 | 716 | 11 | US-11-188-298-18748 | Sequence 18748, A |
| 441 | 28 | 50.9 | 728 | 11 | US-11-087-099-9096 | Sequence 9096, Ap |
| 442 | 28 | 50.9 | 728 | 11 | US-11-087-099-9694 | Sequence 9694, Ap |
| 443 | 28 | 50.9 | 737 | 11 | US-11-152-366-28 | Sequence 28, Appl |
| 444 | 28 | 50.9 | 748 | 11 | US-11-072-512-2336 | Sequence 2336, Ap |
| 445 | 28 | 50.9 | 751 | 11 | US-11-087-099-7226 | Sequence 7226, Ap |
| 446 | 28 | 50.9 | 756 | 9 | US-10-330-773-731 | Sequence 731, App |
| 447 | 28 | 50.9 | 762 | 11 | US-11-087-099-3342 | Sequence 3342, Ap |
| 448 | 28 | 50.9 | 762 | 11 | US-11-188-298-3131 | Sequence 3131, Ap |
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| 450 | 28 | 50.9 | 784 | 11 | US-11-188-298-15401 | Sequence 15401, A |
| 451 | 28 | 50.9 | 793 | 11 | US-11-188-298-11205 | Sequence 11205, A |
| 452 | 28 | 50.9 | 804 | 11 | US-11-098-686-10592 | Sequence 10592, A |
| 453 | 28 | 50.9 | 811 | 9 | US-10-194-487-414 | Sequence 414, App |
| 454 | 28 | 50.9 | 811 | 9 | US-10-195-883-414 | Sequence 414, App |
| 455 | 28 | 50.9 | 811 | 9 | US-10-195-888-414 | Sequence 414, App |
| 456 | 28 | 50.9 | 811 | 9 | US-10-195-889-414 | Sequence 414, App |
| 457 | 28 | 50.9 | 811 | 11 | US-11-185-567-4 | Sequence 4, Appli |
| 458 | 28 | 50.9 | 811 | 11 | US-11-229-308-1 | Sequence 1, Appli |
| 459 | 28 | 50.9 | 820 | 11 | US-11-087-099-4407 | Sequence 4407, Ap |
| 460 | 28 | 50.9 | 879 | 11 | US-11-098-686-10290 | Sequence 10290, A |
| 461 | 28 | 50.9 | 953 | 11 | US-11-057-058-53 | Sequence 53, Appl |
| 462 | 28 | 50.9 | 953 | 11 | US-11-057-058-56 | Sequence 56, Appl |
| 463 | 28 | 50.9 | 953 | 11 | US-11-057-058-57 | Sequence 57, Appl |
| 464 | 28 | 50.9 | 969 | 8 | US-10-505-928-94 | Sequence 94, Appl |
| 465 | 28 | 50.9 | 969 | 9 | US-10-501-035-361 | Sequence 361, App |
| 466 | 28 | 50.9 | 1025 | 9 | US-10-921-415-5 | Sequence 5, Appli |
| 467 | 28 | 50.9 | 1036 | 11 | US-11-096-568A-28315 | Sequence 28315, A |
| 468 | 28 | 50.9 | 1070 | 11 | US-11-096-568A-28314 | Sequence 28314, A |
| 469 | 28 | 50.9 | 1148 | 7 | US-09-824-575A-2 | Sequence 2, Appli |
| 470 | 28 | 50.9 | 1148 | 7 | US-09-824-575A-4 | Sequence 4, Appli |
| 471 | 28 | 50.9 | 1184 | 9 | US-10-131-826A-412 | Sequence 412, App |
| 472 | 28 | 50.9 | 1184 | 9 | US-10-973-115B-412 | Sequence 412, App |
| 473 | 28 | 50.9 | 1184 | 9 | US-10-137-873A-412 | Sequence 412, App |
| 474 | 28 | 50.9 | 1184 | 9 | US-10-152-370-412 | Sequence 412, App |
| 475 | 28 | 50.9 | 1184 | 11 | US-11-290-153-412 | Sequence 412, App |
| 476 | 28 | 50.9 | 1276 | 11 | US-11-096-568A-28313 | Sequence 28313, A |
| 477 | 28 | 50.9 | 1311 | 9 | US-10-509-422-5 | Sequence 5, Appli |
| 478 | 28 | 50.9 | 1356 | 9 | US-10-922-232B-63 | Sequence 63, Appl |
| 479 | 28 | 50.9 | 1467 | 11 | US-11-079-463-9910 | Sequence 9910, Ap |
| 480 | 28 | 50.9 | 8746 | 11 | US-11-098-686-10232 | Sequence 10232, A |
| 481 | 27.5 | 50.0 | 13 | 11 | US-11-152-974A-462 | Sequence 462, App |
| 482 | 27.5 | 50.0 | 13 | 11 | US-11-153-143A-462 | Sequence 462, App |
| 483 | 27.5 | 50.0 | 166 | 11 | US-11-176-830-1300 | Sequence 1300, Ap |
| 484 | 27.5 | 50.0 | 166 | 11 | US-11-196-067-496 | Sequence 496, App |
| 485 | 27.5 | 50.0 | 176 | 11 | US-11-079-463-9088 | Sequence 9088, Ap |
| 486 | 27.5 | 50.0 | 195 | 11 | US-11-019-955-23 | Sequence 23, Appl |
| 487 | 27.5 | 50.0 | 241 | 11 | US-11-019-955-29 | Sequence 29, Appl |
| 488 | 27.5 | 50.0 | 385 | 11 | US-11-087-099-2002 | Sequence 2002, Ap |
| 489 | 27.5 | 50.0 | 464 | 11 | US-11-045-004-2764 | Sequence 2764, Ap |
| 490 | 27 | 49.1 | 10 | 9 | US-10-929-988-18 | Sequence 18, Appl |
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| 492 | 27 | 49.1 | 15 | 11 | US-11-198-847-12 | Sequence 12, Appl |
| 493 | 27 | 49.1 | 18 | 11 | US-11-000-365-3 | Sequence 3, Appli |
| 494 | 27 | 49.1 | 18 | 11 | US-11-032-794-3 | Sequence 3, Appli |
| 495 | 27 | 49.1 | 19 | 9 | US-10-503-575-109 | Sequence 109, App |
| 496 | 27 | 49.1 | 20 | 11 | US-11-000-365-39 | Sequence 39, Appl |
| 497 | 27 | 49.1 | 20 | 11 | US-11-000-365-42 | Sequence 42, Appl |
| 498 | 27 | 49.1 | 20 | 11 | US-11-032-794-39 | Sequence 39, Appl |
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| 501 | 27 | 49.1 | 25 | 11 | US-11-198-847-277 | Sequence 277, App |
| 502 | 27 | 49.1 | 25 | 11 | US-11-174-996A-46 | Sequence 46, Appl |
| 503 | 27 | 49.1 | 25 | 11 | US-11-119-293-17 | Sequence 17, Appl |
| 504 | 27 | 49.1 | 25 | 11 | US-11-119-293-27 | Sequence 27, Appl |
| 505 | 27 | 49.1 | 25 | 11 | US-11-119-293-28 | Sequence 28, Appl |
| 506 | 27 | 49.1 | 25 | 11 | US-11-119-293-31 | Sequence 31, Appl |
| 507 | 27 | 49.1 | 25 | 11 | US-11-119-293-32 | Sequence 32, Appl |
| 508 | 27 | 49.1 | 25 | 11 | US-11-119-293-34 | Sequence 34, Appl |
| 509 | 27 | 49.1 | 26 | 10 | US-11-297-160-22 | Sequence 22, Appl |
| 510 | 27 | 49.1 | 27 | 10 | US-11-297-160-23 | Sequence 23, Appl |
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| 512 | 27 | 49.1 | 27 | 11 | US-11-032-794-2 | Sequence 2, Appli |
| 513 | 27 | 49.1 | 29 | 11 | US-11-198-847-273 | Sequence 273, App |
| 514 | 27 | 49.1 | 34 | 10 | US-11-297-160-10 | Sequence 10, Appl |
| 515 | 27 | 49.1 | 34 | 10 | US-11-297-160-11 | Sequence 11, Appl |
| 516 | 27 | 49.1 | 36 | 10 | US-11-297-160-31 | Sequence 31, Appl |
| 517 | 27 | 49.1 | 41 | 10 | US-11-297-160-32 | Sequence 32, Appl |
| 518 | 27 | 49.1 | 44 | 11 | US-11-166-412-158 | Sequence 158, App |
| 519 | 27 | 49.1 | 46 | 10 | US-11-297-160-16 | Sequence 16, Appl |
| 520 | 27 | 49.1 | 47 | 9 | US-10-467-657-8947 | Sequence 8947, Ap |
| 521 | 27 | 49.1 | 49 | 9 | US-10-467-657-4058 | Sequence 4058, Ap |
| 522 | 27 | 49.1 | 51 | 11 | US-11-264-096-2059 | Sequence 2059, Ap |
| 523 | 27 | 49.1 | 54 | 11 | US-11-096-568A-2295 | Sequence 2295, Ap |
| 524 | 27 | 49.1 | 63 | 11 | US-11-264-096-1051 | Sequence 1051, Ap |
| 525 | 27 | 49.1 | 63 | 11 | US-11-264-096-1052 | Sequence 1052, Ap |
| 526 | 27 | 49.1 | 68 | 11 | US-11-255-427-18 | Sequence 18, Appl |
| 527 | 27 | 49.1 | 71 | 11 | US-11-264-096-2236 | Sequence 2236, Ap |
| 528 | 27 | 49.1 | 72 | 11 | US-11-000-365-36 | Sequence 36, Appl |
| 529 | 27 | 49.1 | 72 | 11 | US-11-032-794-36 | Sequence 36, Appl |
| 530 | 27 | 49.1 | 77 | 11 | US-11-096-568A-2293 | Sequence 2293, Ap |
| 531 | 27 | 49.1 | 82 | 11 | US-11-096-568A-3732 | Sequence 3732, Ap |
| 532 | 27 | 49.1 | 82 | 11 | US-11-096-568A-5084 | Sequence 5084, Ap |

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| 533 | 27 | 49.1 | 84 | 9 | US-10-063-703-44 | Sequence 44, Appl |
| 534 | 27 | 49.1 | 84 | 9 | US-10-194-487-186 | Sequence 186, App |
| 535 | 27 | 49.1 | 84 | 9 | US-10-195-883-186 | Sequence 186, App |
| 536 | 27 | 49.1 | 84 | 9 | US-10-195-888-186 | Sequence 186, App |
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| 538 | 27 | 49.1 | 84 | 11 | US-11-102-240-44 | Sequence 44, Appl |
| 539 | 27 | 49.1 | 84 | 11 | US-11-103-195-44 | Sequence 44, Appl |
| 540 | 27 | 49.1 | 92 | 11 | US-11-264-096-1518 | Sequence 1518, Ap |
| 541 | 27 | 49.1 | 93 | 11 | US-11-096-568A-4491 | Sequence 4491, Ap |
| 542 | 27 | 49.1 | 94 | 11 | US-11-031-206-44 | Sequence 44, Appl |
| 543 | 27 | 49.1 | 95 | 11 | US-11-198-847-8 | Sequence 8, Appli |
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| 545 | 27 | 49.1 | 103 | 11 | US-11-198-847-5 | Sequence 5, Appli |
| 546 | 27 | 49.1 | 106 | 11 | US-11-137-465-53 | Sequence 53, Appl |
| 547 | 27 | 49.1 | 106 | 11 | US-11-087-099-8316 | Sequence 8316, Ap |
| 548 | 27 | 49.1 | 109 | 11 | US-11-096-568A-4489 | Sequence 4489, Ap |
| 549 | 27 | 49.1 | 112 | 9 | US-10-453-372-562 | Sequence 562, App |
| 550 | 27 | 49.1 | 113 | 11 | US-11-072-512-2080 | Sequence 2080, Ap |
| 551 | 27 | 49.1 | 113 | 11 | US-11-096-568A-12061 | Sequence 12061, A |
| 552 | 27 | 49.1 | 114 | 11 | US-11-137-465-52 | Sequence 52, Appl |
| 553 | 27 | 49.1 | 127 | 11 | US-11-198-847-146 | Sequence 146, App |
| 554 | 27 | 49.1 | 127 | 11 | US-11-087-099-1113 | Sequence 1113, Ap |
| 555 | 27 | 49.1 | 135 | 9 | US-10-501-035-378 | Sequence 378, App |
| 556 | 27 | 49.1 | 137 | 11 | US-11-096-568A-12060 | Sequence 12060, A |
| 557 | 27 | 49.1 | 139 | 11 | US-11-096-568A-14270 | Sequence 14270, A |
| 558 | 27 | 49.1 | 143 | 11 | US-11-096-568A-27254 | Sequence 27254, A |
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| 560 | 27 | 49.1 | 159 | 10 | US-11-297-160-7 | Sequence 7, Appli |
| 561 | 27 | 49.1 | 160 | 9 | US-10-821-234-1305 | Sequence 1305, Ap |
| 562 | 27 | 49.1 | 160 | 10 | US-11-297-160-6 | Sequence 6, Appli |
| 563 | 27 | 49.1 | 163 | 11 | US-11-072-512-3336 | Sequence 3336, Ap |
| 564 | 27 | 49.1 | 165 | 8 | US-10-505-928-797 | Sequence 797, App |
| 565 | 27 | 49.1 | 165 | 9 | US-10-821-234-1127 | Sequence 1127, Ap |
| 566 | 27 | 49.1 | 165 | 10 | US-11-297-160-2 | Sequence 2, Appli |
| 567 | 27 | 49.1 | 167 | 9 | US-10-689-742-197 | Sequence 197, App |
| 568 | 27 | 49.1 | 169 | 11 | US-11-096-568A-20299 | Sequence 20299, A |
| 569 | 27 | 49.1 | 172 | 11 | US-11-096-568A-2404 | Sequence 2404, Ap |
| 570 | 27 | 49.1 | 173 | 11 | US-11-070-575-5 | Sequence 5, Appli |
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| 572 | 27 | 49.1 | 180 | 11 | US-11-153-071-14 | Sequence 14, Appl |
| 573 | 27 | 49.1 | 181 | 11 | US-11-096-568A-108 | Sequence 108, App |
| 574 | 27 | 49.1 | 183 | 11 | US-11-096-568A-1506 | Sequence 1506, Ap |
| 575 | 27 | 49.1 | 184 | 11 | US-11-172-740-2204 | Sequence 2204, Ap |
| 576 | 27 | 49.1 | 185 | 11 | US-11-096-568A-14269 | Sequence 14269, A |
| 577 | 27 | 49.1 | 185 | 11 | US-11-220-372-358 | Sequence 358, App |
| 578 | 27 | 49.1 | 185 | 11 | US-11-264-096-1711 | Sequence 1711, Ap |
| 579 | 27 | 49.1 | 194 | 9 | US-10-218-784-32 | Sequence 32, Appl |
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| 589 | 27 | 49.1 | 206 | 9 | US-10-793-626-832 | Sequence 832, App |
| 590 | 27 | 49.1 | 206 | 11 | US-11-264-096-2211 | Sequence 2211, Ap |
| 591 | 27 | 49.1 | 207 | 11 | US-11-203-251A-96 | Sequence 96, Appl |
| 592 | 27 | 49.1 | 207 | 11 | US-11-264-096-2208 | Sequence 2208, Ap |
| 593 | 27 | 49.1 | 213 | 11 | US-11-096-568A-30853 | Sequence 30853, A |
| 594 | 27 | 49.1 | 214 | 11 | US-11-203-251A-97 | Sequence 97, Appl |
| 595 | 27 | 49.1 | 216 | 11 | US-11-096-568A-1505 | Sequence 1505, Ap |
| 596 | 27 | 49.1 | 220 | 9 | US-10-895-064-437 | Sequence 437, App |
| 597 | 27 | 49.1 | 220 | 11 | US-11-129-741-437 | Sequence 437, App |
| 598 | 27 | 49.1 | 220 | 11 | US-11-129-741-3456 | Sequence 3456, Ap |
| 599 | 27 | 49.1 | 224 | 11 | US-11-096-568A-1504 | Sequence 1504, Ap |
| 600 | 27 | 49.1 | 225 | 11 | US-11-096-568A-30852 | Sequence 30852, A |
| 601 | 27 | 49.1 | 226 | 11 | US-11-096-568A-16531 | Sequence 16531, A |
| 602 | 27 | 49.1 | 230 | 9 | US-10-644-807-273 | Sequence 273, App |
| 603 | 27 | 49.1 | 234 | 9 | US-10-644-807-440 | Sequence 440, App |
| 604 | 27 | 49.1 | 245 | 9 | US-10-644-807-376 | Sequence 376, App |
| 605 | 27 | 49.1 | 245 | 9 | US-10-986-405-207 | Sequence 207, App |
| 606 | 27 | 49.1 | 245 | 9 | US-10-986-405-280 | Sequence 280, App |
| 607 | 27 | 49.1 | 245 | 11 | US-11-256-802-4 | Sequence 4, Appli |
| 608 | 27 | 49.1 | 251 | 11 | US-11-096-568A-22969 | Sequence 22969, A |
| 609 | 27 | 49.1 | 252 | 11 | US-11-054-515-1218 | Sequence 1218, Ap |
| 610 | 27 | 49.1 | 252 | 11 | US-11-266-444-1218 | Sequence 1218, Ap |
| 611 | 27 | 49.1 | 253 | 9 | US-10-821-234-1438 | Sequence 1438, Ap |
| 612 | 27 | 49.1 | 254 | 11 | US-11-098-686-10595 | Sequence 10595, A |
| 613 | 27 | 49.1 | 256 | 11 | US-11-096-568A-22968 | Sequence 22968, A |
| 614 | 27 | 49.1 | 260 | 11 | US-11-220-372-330 | Sequence 330, App |
| 615 | 27 | 49.1 | 261 | 11 | US-11-096-568A-22967 | Sequence 22967, A |
| 616 | 27 | 49.1 | 265 | 11 | US-11-096-568A-13764 | Sequence 13764, A |
| 617 | 27 | 49.1 | 269 | 9 | US-10-455-772-692 | Sequence 692, App |
| 618 | 27 | 49.1 | 270 | 11 | US-11-177-506-35 | Sequence 35, Appl |
| 619 | 27 | 49.1 | 271 | 11 | US-11-019-711-26 | Sequence 26, Appl |
| 620 | 27 | 49.1 | 273 | 11 | US-11-188-298-14253 | Sequence 14253, A |
| 621 | 27 | 49.1 | 273 | 11 | US-11-188-298-19383 | Sequence 19383, A |
| 622 | 27 | 49.1 | 274 | 11 | US-11-096-568A-7451 | Sequence 7451, Ap |
| 623 | 27 | 49.1 | 274 | 11 | US-11-067-260-25 | Sequence 25, Appl |
| 624 | 27 | 49.1 | 280 | 11 | US-11-096-568A-5968 | Sequence 5968, Ap |
| 625 | 27 | 49.1 | 288 | 11 | US-11-188-298-10535 | Sequence 10535, A |
| 626 | 27 | 49.1 | 295 | 11 | US-11-096-568A-13763 | Sequence 13763, A |
| 627 | 27 | 49.1 | 297 | 9 | US-10-203-486-3 | Sequence 3, Appli |
| 628 | 27 | 49.1 | 302 | 9 | US-10-455-772-686 | Sequence 686, App |
| 629 | 27 | 49.1 | 304 | 9 | US-10-979-871-1 | Sequence 1, Appli |
| 630 | 27 | 49.1 | 306 | 9 | US-10-918-612A-1 | Sequence 1, Appli |
| 631 | 27 | 49.1 | 306 | 11 | US-11-052-554A-276 | Sequence 276, App |
| 632 | 27 | 49.1 | 306 | 11 | US-11-019-711-89 | Sequence 89, Appl |
| 633 | 27 | 49.1 | 307 | 9 | US-10-455-772-696 | Sequence 696, App |
| 634 | 27 | 49.1 | 307 | 10 | US-11-283-522-33 | Sequence 33, Appl |
| 635 | 27 | 49.1 | 307 | 11 | US-11-019-711-87 | Sequence 87, Appl |
| 636 | 27 | 49.1 | 307 | 11 | US-11-019-711-88 | Sequence 88, Appl |
| 637 | 27 | 49.1 | 307 | 11 | US-11-019-711-91 | Sequence 91, Appl |
| 638 | 27 | 49.1 | 307 | 11 | US-11-265-966-16 | Sequence 16, Appl |
| 639 | 27 | 49.1 | 308 | 11 | US-11-188-298-3013 | Sequence 3013, Ap |
| 640 | 27 | 49.1 | 309 | 11 | US-11-096-568A-5967 | Sequence 5967, Ap |
| 641 | 27 | 49.1 | 309 | 11 | US-11-188-298-14967 | Sequence 14967, A |
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| 643 | 27 | 49.1 | 320 | 9 | US-10-455-772-694 | Sequence 694, App |
| 644 | 27 | 49.1 | 329 | 11 | US-11-188-298-3030 | Sequence 3030, Ap |
| 645 | 27 | 49.1 | 336 | 11 | US-11-087-099-9106 | Sequence 9106, Ap |
| 646 | 27 | 49.1 | 337 | 11 | US-11-166-412-60 | Sequence 60, Appl |
| 647 | 27 | 49.1 | 344 | 11 | US-11-096-568A-15970 | Sequence 15970, A |
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| 649 | 27 | 49.1 | 349 | 9 | US-10-793-626-932 | Sequence 932, App |
| 650 | 27 | 49.1 | 350 | 11 | US-11-016-564-10 | Sequence 10, Appl |
| 651 | 27 | 49.1 | 350 | 11 | US-11-087-099-9339 | Sequence 9339, Ap |
| 652 | 27 | 49.1 | 351 | 11 | US-11-079-463-9225 | Sequence 9225, Ap |
| 653 | 27 | 49.1 | 352 | 11 | US-11-096-568A-7450 | Sequence 7450, Ap |
| 654 | 27 | 49.1 | 353 | 11 | US-11-188-298-18796 | Sequence 18796, A |
| 655 | 27 | 49.1 | 358 | 11 | US-11-127-877-66 | Sequence 66, Appl |
| 656 | 27 | 49.1 | 363 | 11 | US-11-087-099-7789 | Sequence 7789, Ap |
| 657 | 27 | 49.1 | 363 | 11 | US-11-188-298-7183 | Sequence 7183, Ap |
| 658 | 27 | 49.1 | 364 | 11 | US-11-087-099-5056 | Sequence 5056, Ap |
| 659 | 27 | 49.1 | 364 | 11 | US-11-188-298-15670 | Sequence 15670, A |
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| 662 | 27 | 49.1 | 365 | 11 | US-11-188-298-12919 | Sequence 12919, A |
| 663 | 27 | 49.1 | 366 | 11 | US-11-188-298-1324 | Sequence 1324, Ap |
| 664 | 27 | 49.1 | 367 | 11 | US-11-096-568A-2534 | Sequence 2534, Ap |
| 665 | 27 | 49.1 | 367 | 11 | US-11-045-004-1309 | Sequence 1309, Ap |
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| 667 | 27 | 49.1 | 371 | 11 | US-11-096-568A-29360 | Sequence 29360, A |
| 668 | 27 | 49.1 | 371 | 11 | US-11-096-568A-29654 | Sequence 29654, A |
| 669 | 27 | 49.1 | 378 | 11 | US-11-087-099-1091 | Sequence 1091, Ap |
| 670 | 27 | 49.1 | 379 | 11 | US-11-096-568A-6312 | Sequence 6312, Ap |
| 671 | 27 | 49.1 | 380 | 9 | US-10-624-932-20 | Sequence 20, Appl |
| 672 | 27 | 49.1 | 380 | 11 | US-11-108-528-28 | Sequence 28, Appl |
| 673 | 27 | 49.1 | 380 | 11 | US-11-108-528-30 | Sequence 30, Appl |
| 674 | 27 | 49.1 | 384 | 11 | US-11-188-298-20370 | Sequence 20370, A |
| 675 | 27 | 49.1 | 386 | 11 | US-11-096-568A-13762 | Sequence 13762, A |
| 676 | 27 | 49.1 | 389 | 11 | US-11-188-298-18149 | Sequence 18149, A |
| 677 | 27 | 49.1 | 390 | 11 | US-11-079-463-9779 | Sequence 9779, Ap |
| 678 | 27 | 49.1 | 391 | 8 | US-10-511-937-2620 | Sequence 2620, Ap |

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| 679 | 27 | 49.1 | 391 | 11 | US-11-127-877-52 | Sequence 52, Appl |
| 680 | 27 | 49.1 | 393 | 11 | US-11-188-298-7822 | Sequence 7822, Ap |
| 681 | 27 | 49.1 | 396 | 9 | US-10-055-877-158 | Sequence 158, App |
| 682 | 27 | 49.1 | 397 | 11 | US-11-096-568A-29359 | Sequence 29359, A |
| 683 | 27 | 49.1 | 397 | 11 | US-11-096-568A-29653 | Sequence 29653, A |
| 684 | 27 | 49.1 | 416 | 11 | US-11-096-568A-6311 | Sequence 6311, Ap |
| 685 | 27 | 49.1 | 423 | 11 | US-11-087-099-9284 | Sequence 9284, Ap |
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| 689 | 27 | 49.1 | 431 | 9 | US-10-467-657-1322 | Sequence 1322, Ap |
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| 691 | 27 | 49.1 | 438 | 11 | US-11-087-099-10527 | Sequence 10527, A |
| 692 | 27 | 49.1 | 442 | 11 | US-11-096-568A-2533 | Sequence 2533, Ap |
| 693 | 27 | 49.1 | 445 | 9 | US-10-821-234-959 | Sequence 959, App |
| 694 | 27 | 49.1 | 447 | 11 | US-11-109-156-30 | Sequence 30, Appl |
| 695 | 27 | 49.1 | 450 | 11 | US-11-096-568A-6310 | Sequence 6310, Ap |
| 696 | 27 | 49.1 | 455 | 11 | US-11-096-568A-29652 | Sequence 29652, A |
| 697 | 27 | 49.1 | 459 | 11 | US-11-143-984A-31 | Sequence 31, Appl |
| 698 | 27 | 49.1 | 459 | 11 | US-11-188-298-418 | Sequence 418, App |
| 699 | 27 | 49.1 | 468 | 11 | US-11-087-099-12285 | Sequence 12285, A |
| 700 | 27 | 49.1 | 471 | 11 | US-11-096-568A-15969 | Sequence 15969, A |
| 701 | 27 | 49.1 | 471 | 11 | US-11-188-298-2071 | Sequence 2071, Ap |
| 702 | 27 | 49.1 | 473 | 11 | US-11-096-568A-12275 | Sequence 12275, A |
| 703 | 27 | 49.1 | 479 | 11 | US-11-096-568A-29358 | Sequence 29358, A |
| 704 | 27 | 49.1 | 481 | 9 | US-10-858-144-3 | Sequence 3, Appli |
| 705 | 27 | 49.1 | 482 | 11 | US-11-188-298-18355 | Sequence 18355, A |
| 706 | 27 | 49.1 | 488 | 11 | US-11-010-239-14 | Sequence 14, Appl |
| 707 | 27 | 49.1 | 492 | 8 | US-10-505-928-48 | Sequence 48, Appl |
| 708 | 27 | 49.1 | 492 | 11 | US-11-264-096-1784 | Sequence 1784, Ap |
| 709 | 27 | 49.1 | 497 | 11 | US-11-149-462-11 | Sequence 11, Appl |
| 710 | 27 | 49.1 | 497 | 11 | US-11-049-536-163 | Sequence 163, App |
| 711 | 27 | 49.1 | 497 | 11 | US-11-199-739-163 | Sequence 163, App |
| 712 | 27 | 49.1 | 498 | 11 | US-11-254-137-2 | Sequence 2, Appli |
| 713 | 27 | 49.1 | 500 | 11 | US-11-096-568A-27420 | Sequence 27420, A |
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| 715 | 27 | 49.1 | 512 | 11 | US-11-096-568A-2532 | Sequence 2532, Ap |
| 716 | 27 | 49.1 | 517 | 11 | US-11-135-603-8 | Sequence 8, Appli |
| 717 | 27 | 49.1 | 523 | 11 | US-11-188-298-19215 | Sequence 19215, A |
| 718 | 27 | 49.1 | 523 | 11 | US-11-188-298-21955 | Sequence 21955, A |
| 719 | 27 | 49.1 | 524 | 11 | US-11-188-298-6644 | Sequence 6644, Ap |
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| 721 | 27 | 49.1 | 531 | 11 | US-11-054-281-105 | Sequence 105, App |
| 722 | 27 | 49.1 | 536 | 11 | US-11-123-873-5 | Sequence 5, Appli |
| 723 | 27 | 49.1 | 539 | 11 | US-11-096-568A-27419 | Sequence 27419, A |
| 724 | 27 | 49.1 | 541 | 11 | US-11-031-206-46 | Sequence 46, Appl |
| 725 | 27 | 49.1 | 542 | 9 | US-10-506-454-1262 | Sequence 1262, Ap |
| 726 | 27 | 49.1 | 542 | 11 | US-11-103-957-59 | Sequence 59, Appl |
| 727 | 27 | 49.1 | 543 | 11 | US-11-087-099-1069 | Sequence 1069, Ap |
| 728 | 27 | 49.1 | 548 | 11 | US-11-087-099-2081 | Sequence 2081, Ap |
| 729 | 27 | 49.1 | 549 | 11 | US-11-103-957-76 | Sequence 76, Appl |
| 730 | 27 | 49.1 | 552 | 11 | US-11-079-463-8728 | Sequence 8728, Ap |
| 731 | 27 | 49.1 | 562 | 11 | US-11-188-298-5316 | Sequence 5316, Ap |
| 732 | 27 | 49.1 | 565 | 11 | US-11-079-463-7488 | Sequence 7488, Ap |
| 733 | 27 | 49.1 | 565 | 11 | US-11-188-298-17564 | Sequence 17564, A |
| 734 | 27 | 49.1 | 567 | 11 | US-11-188-298-4779 | Sequence 4779, Ap |
| 735 | 27 | 49.1 | 573 | 11 | US-11-188-298-444 | Sequence 444, App |
| 736 | 27 | 49.1 | 573 | 11 | US-11-188-298-20628 | Sequence 20628, A |
| 737 | 27 | 49.1 | 580 | 11 | US-11-143-984A-30 | Sequence 30, Appl |
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| 739 | 27 | 49.1 | 590 | 11 | US-11-087-099-9984 | Sequence 9984, Ap |
| 740 | 27 | 49.1 | 592 | 9 | US-10-467-962B-95 | Sequence 95, Appl |
| 741 | 27 | 49.1 | 592 | 9 | US-10-524-647-112 | Sequence 112, App |
| 742 | 27 | 49.1 | 592 | 9 | US-10-524-972-100 | Sequence 100, App |
| 743 | 27 | 49.1 | 597 | 11 | US-11-087-099-11607 | Sequence 11607, A |
| 744 | 27 | 49.1 | 603 | 11 | US-11-096-568A-31545 | Sequence 31545, A |
| 745 | 27 | 49.1 | 606 | 11 | US-11-087-099-7588 | Sequence 7588, Ap |
| 746 | 27 | 49.1 | 618 | 11 | US-11-087-099-5707 | Sequence 5707, Ap |
| 747 | 27 | 49.1 | 618 | 11 | US-11-087-099-7200 | Sequence 7200, Ap |
| 748 | 27 | 49.1 | 629 | 11 | US-11-087-099-6338 | Sequence 6338, Ap |
| 749 | 27 | 49.1 | 638 | 9 | US-10-501-035-212 | Sequence 212, App |
| 750 | 27 | 49.1 | 657 | 11 | US-11-096-568A-27451 | Sequence 27451, A |
| 751 | 27 | 49.1 | 673 | 11 | US-11-188-298-12512 | Sequence 12512, A |
| 752 | 27 | 49.1 | 696 | 11 | US-11-087-099-11029 | Sequence 11029, A |
| 753 | 27 | 49.1 | 712 | 11 | US-11-037-243-69 | Sequence 69, Appl |
| 754 | 27 | 49.1 | 720 | 11 | US-11-087-099-7216 | Sequence 7216, Ap |
| 755 | 27 | 49.1 | 724 | 11 | US-11-087-099-3655 | Sequence 3655, Ap |
| 756 | 27 | 49.1 | 731 | 11 | US-11-024-959-421 | Sequence 421, App |
| 757 | 27 | 49.1 | 757 | 9 | US-10-055-877-157 | Sequence 157, App |
| 758 | 27 | 49.1 | 764 | 11 | US-11-188-298-8892 | Sequence 8892, Ap |
| 759 | 27 | 49.1 | 765 | 9 | US-10-131-826A-28 | Sequence 28, Appl |
| 760 | 27 | 49.1 | 765 | 9 | US-10-973-115B-28 | Sequence 28, Appl |
| 761 | 27 | 49.1 | 765 | 9 | US-10-137-873A-28 | Sequence 28, Appl |
| 762 | 27 | 49.1 | 765 | 9 | US-10-152-370-28 | Sequence 28, Appl |
| 763 | 27 | 49.1 | 765 | 11 | US-11-290-153-28 | Sequence 28, Appl |
| 764 | 27 | 49.1 | 766 | 11 | US-11-147-047-27 | Sequence 27, Appl |
| 765 | 27 | 49.1 | 793 | 11 | US-11-188-298-13228 | Sequence 13228, A |
| 766 | 27 | 49.1 | 798 | 11 | US-11-079-463-7882 | Sequence 7882, Ap |
| 767 | 27 | 49.1 | 811 | 11 | US-11-188-298-4728 | Sequence 4728, Ap |
| 768 | 27 | 49.1 | 839 | 11 | US-11-188-298-21025 | Sequence 21025, A |
| 769 | 27 | 49.1 | 866 | 11 | US-11-188-298-1933 | Sequence 1933, Ap |
| 770 | 27 | 49.1 | 969 | 11 | US-11-096-568A-30346 | Sequence 30346, A |
| 771 | 27 | 49.1 | 979 | 11 | US-11-096-568A-30345 | Sequence 30345, A |
| 772 | 27 | 49.1 | 991 | 11 | US-11-188-298-1019 | Sequence 1019, Ap |
| 773 | 27 | 49.1 | 993 | 8 | US-10-511-937-2463 | Sequence 2463, Ap |
| 774 | 27 | 49.1 | 1055 | 11 | US-11-096-568A-30344 | Sequence 30344, A |
| 775 | 27 | 49.1 | 1081 | 11 | US-11-188-298-21987 | Sequence 21987, A |
| 776 | 27 | 49.1 | 1082 | 11 | US-11-188-298-7629 | Sequence 7629, Ap |
| 777 | 27 | 49.1 | 1124 | 11 | US-11-195-197-9 | Sequence 9, Appli |
| 778 | 27 | 49.1 | 1124 | 11 | US-11-114-979-1 | Sequence 1, Appli |
| 779 | 27 | 49.1 | 1130 | 11 | US-11-086-482-1 | Sequence 1, Appli |
| 780 | 27 | 49.1 | 1130 | 11 | US-11-192-341-23 | Sequence 23, Appl |
| 781 | 27 | 49.1 | 1157 | 11 | US-11-045-004-1386 | Sequence 1386, Ap |
| 782 | 27 | 49.1 | 1160 | 9 | US-10-131-826A-234 | Sequence 234, App |
| 783 | 27 | 49.1 | 1160 | 9 | US-10-973-115B-234 | Sequence 234, App |
| 784 | 27 | 49.1 | 1160 | 9 | US-10-137-873A-234 | Sequence 234, App |
| 785 | 27 | 49.1 | 1160 | 9 | US-10-152-370-234 | Sequence 234, App |
| 786 | 27 | 49.1 | 1160 | 11 | US-11-290-153-234 | Sequence 234, App |
| 787 | 27 | 49.1 | 1180 | 11 | US-11-079-463-9464 | Sequence 9464, Ap |
| 788 | 27 | 49.1 | 1227 | 9 | US-10-858-730-223 | Sequence 223, App |
| 789 | 27 | 49.1 | 1252 | 9 | US-10-493-909-89 | Sequence 89, Appl |
| 790 | 27 | 49.1 | 1256 | 8 | US-10-511-937-2975 | Sequence 2975, Ap |
| 791 | 27 | 49.1 | 1256 | 9 | US-10-493-909-90 | Sequence 90, Appl |
| 792 | 27 | 49.1 | 1261 | 11 | US-11-188-298-8382 | Sequence 8382, Ap |
| 793 | 27 | 49.1 | 2311 | 9 | US-10-469-469-54 | Sequence 54, Appl |
| 794 | 27 | 49.1 | 2712 | 11 | US-11-004-399-1736 | Sequence 1736, Ap |
| 795 | 27 | 49.1 | 3375 | 11 | US-11-044-111-23 | Sequence 23, Appl |
| 796 | 27 | 49.1 | 3969 | 9 | US-10-974-127A-59 | Sequence 59, Appl |
| 797 | 27 | 49.1 | 4386 | 11 | US-11-004-399-714 | Sequence 714, App |
| 798 | 27 | 49.1 | 4443 | 11 | US-11-129-741-3478 | Sequence 3478, Ap |
| 799 | 27 | 49.1 | 4473 | 9 | US-10-895-064-460 | Sequence 460, App |
| 800 | 27 | 49.1 | 4473 | 11 | US-11-129-741-460 | Sequence 460, App |
| 801 | 26.5 | 48.2 | 402 | 11 | US-11-096-568A-24244 | Sequence 24244, A |
| 802 | 26.5 | 48.2 | 407 | 11 | US-11-096-568A-14655 | Sequence 14655, A |
| 803 | 26.5 | 48.2 | 412 | 11 | US-11-096-568A-14654 | Sequence 14654, A |
| 804 | 26.5 | 48.2 | 448 | 11 | US-11-096-568A-24243 | Sequence 24243, A |
| 805 | 26.5 | 48.2 | 535 | 11 | US-11-087-099-2008 | Sequence 2008, Ap |
| 806 | 26.5 | 48.2 | 543 | 11 | US-11-096-568A-24242 | Sequence 24242, A |
| 807 | 26.5 | 48.2 | 763 | 9 | US-10-520-258-2 | Sequence 2, Appli |
| 808 | 26.5 | 48.2 | 764 | 11 | US-11-152-601-23 | Sequence 23, Appl |
| 809 | 26.5 | 48.2 | 1065 | 11 | US-11-201-606-16 | Sequence 16, Appl |
| 810 | 26 | 47.3 | 9 | 11 | US-11-136-079-62 | Sequence 62, Appl |
| 811 | 26 | 47.3 | 9 | 11 | US-11-136-079-63 | Sequence 63, Appl |
| 812 | 26 | 47.3 | 10 | 9 | US-10-929-988-10 | Sequence 10, Appl |
| 813 | 26 | 47.3 | 19 | 11 | US-11-196-919-7 | Sequence 7, Appli |
| 814 | 26 | 47.3 | 21 | 11 | US-11-119-293-15 | Sequence 15, Appl |
| 815 | 26 | 47.3 | 22 | 11 | US-11-119-293-14 | Sequence 14, Appl |
| 816 | 26 | 47.3 | 23 | 11 | US-11-119-293-21 | Sequence 21, Appl |
| 817 | 26 | 47.3 | 29 | 11 | US-11-129-741-4225 | Sequence 4225, Ap |
| 818 | 26 | 47.3 | 30 | 9 | US-10-532-480-5 | Sequence 5, Appli |
| 819 | 26 | 47.3 | 30 | 11 | US-11-126-468-12 | Sequence 12, Appl |
| 820 | 26 | 47.3 | 32 | 9 | US-10-512-325-5 | Sequence 5, Appli |
| 821 | 26 | 47.3 | 32 | 11 | US-11-196-919-4 | Sequence 4, Appli |
| 822 | 26 | 47.3 | 33 | 11 | US-11-121-301-67 | Sequence 67, Appl |
| 823 | 26 | 47.3 | 33 | 11 | US-11-121-301-68 | Sequence 68, Appl |
| 824 | 26 | 47.3 | 34 | 9 | US-10-504-838-6 | Sequence 6, Appli |

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| 825 | 26 | 47.3 | 34 | 9 | US-10-517-565-6 | Sequence 6, Appli |
| 826 | 26 | 47.3 | 35 | 9 | US-10-467-657-6962 | Sequence 6962, Ap |
| 827 | 26 | 47.3 | 35 | 11 | US-11-068-783-64 | Sequence 64, Appl |
| 828 | 26 | 47.3 | 36 | 11 | US-11-006-031-44 | Sequence 44, Appl |
| 829 | 26 | 47.3 | 36 | 11 | US-11-194-110-44 | Sequence 44, Appl |
| 830 | 26 | 47.3 | 37 | 9 | US-10-467-657-422 | Sequence 422, App |
| 831 | 26 | 47.3 | 37 | 9 | US-10-467-657-6190 | Sequence 6190, Ap |
| 832 | 26 | 47.3 | 38 | 10 | US-11-297-160-17 | Sequence 17, Appl |
| 833 | 26 | 47.3 | 40 | 9 | US-10-467-657-6050 | Sequence 6050, Ap |
| 834 | 26 | 47.3 | 41 | 9 | US-10-467-657-6562 | Sequence 6562, Ap |
| 835 | 26 | 47.3 | 44 | 11 | US-11-264-096-941 | Sequence 941, App |
| 836 | 26 | 47.3 | 46 | 11 | US-11-000-463-833 | Sequence 833, App |
| 837 | 26 | 47.3 | 49 | 9 | US-10-467-657-3466 | Sequence 3466, Ap |
| 838 | 26 | 47.3 | 49 | 11 | US-11-000-463-361 | Sequence 361, App |
| 839 | 26 | 47.3 | 61 | 11 | US-11-079-463-6689 | Sequence 6689, Ap |
| 840 | 26 | 47.3 | 66 | 11 | US-11-079-463-6403 | Sequence 6403, Ap |
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| 863 | 26 | 47.3 | 105 | 9 | US-10-530-253-27 | Sequence 27, Appl |
| 864 | 26 | 47.3 | 105 | 11 | US-11-075-351-55 | Sequence 55, Appl |
| 865 | 26 | 47.3 | 105 | 11 | US-11-144-947-464 | Sequence 464, App |
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| 867 | 26 | 47.3 | 107 | 11 | US-11-096-568A-952 | Sequence 952, App |
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| 877 | 26 | 47.3 | 116 | 11 | US-11-190-202-2 | Sequence 2, Appli |
| 878 | 26 | 47.3 | 119 | 11 | US-11-190-202-9 | Sequence 9, Appli |
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| 880 | 26 | 47.3 | 123 | 11 | US-11-190-202-11 | Sequence 11, Appl |
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| 885 | 26 | 47.3 | 128 | 9 | US-10-821-234-1538 | Sequence 1538, Ap |
| 886 | 26 | 47.3 | 132 | 11 | US-11-072-512-2099 | Sequence 2099, Ap |
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| 890 | 26 | 47.3 | 137 | 11 | US-11-183-261-33 | Sequence 33, Appl |
| 891 | 26 | 47.3 | 143 | 9 | US-10-467-657-8656 | Sequence 8656, Ap |
| 892 | 26 | 47.3 | 145 | 11 | US-11-096-568A-537 | Sequence 537, App |
| 893 | 26 | 47.3 | 146 | 11 | US-11-034-569-14 | Sequence 14, Appl |
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| 898 | 26 | 47.3 | 174 | 9 | US-10-506-454-1430 | Sequence 1430, Ap |
| 899 | 26 | 47.3 | 179 | 9 | US-10-467-657-2446 | Sequence 2446, Ap |
| 900 | 26 | 47.3 | 181 | 11 | US-11-174-467-1 | Sequence 1, Appli |
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| 940 | 26 | 47.3 | 254 | 11 | US-11-167-831-16 | Sequence 16, Appl |
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| 961 | 26 | 47.3 | 298 | 11 | US-11-188-298-22135 | Sequence 22135, A |
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| 973 | 26 | 47.3 | 310 | 11 | US-11-188-298-17559 | Sequence 17559, A |
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| 977 | 26 | 47.3 | 319 | 11 | US-11-096-568A-6484 | Sequence 6484, Ap |
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| 980 | 26 | 47.3 | 321 | 11 | US-11-096-568A-15101 | Sequence 15101, A |
| 981 | 26 | 47.3 | 321 | 11 | US-11-096-568A-23662 | Sequence 23662, A |
| 982 | 26 | 47.3 | 321 | 11 | US-11-079-463-7947 | Sequence 7947, Ap |
| 983 | 26 | 47.3 | 323 | 11 | US-11-156-084-294 | Sequence 294, App |
| 984 | 26 | 47.3 | 324 | 11 | US-11-087-099-4259 | Sequence 4259, Ap |
| 985 | 26 | 47.3 | 324 | 11 | US-11-033-030-18 | Sequence 18, Appl |
| 986 | 26 | 47.3 | 325 | 11 | US-11-079-463-5909 | Sequence 5909, Ap |
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| 990 | 26 | 47.3 | 334 | 11 | US-11-096-568A-29550 | Sequence 29550, A |
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| 992 | 26 | 47.3 | 337 | 11 | US-11-222-874-2 | Sequence 2, Appli |
| 993 | 26 | 47.3 | 340 | 11 | US-11-096-568A-26558 | Sequence 26558, A |
| 994 | 26 | 47.3 | 342 | 11 | US-11-096-568A-19206 | Sequence 19206, A |
| 995 | 26 | 47.3 | 343 | 11 | US-11-096-568A-6730 | Sequence 6730, Ap |
| 996 | 26 | 47.3 | 343 | 11 | US-11-096-568A-26557 | Sequence 26557, A |
| 997 | 26 | 47.3 | 344 | 11 | US-11-190-202-15 | Sequence 15, Appl |
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ALIGNMENTS

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RESULT 1
US-11-041-893-101
; Sequence 101, Application US/11041893
; Publication No. US20060002941A1
; GENERAL INFORMATION:
;  APPLICANT: Mahairas, Gregory G.
;  TITLE OF INVENTION: COMPOSITIONS COMPRISING IMMUNE RESPONSE
;  TITLE OF INVENTION:  ALTERING AGENTS AND METHODS OF USE
;  FILE REFERENCE: 100123.401
;  CURRENT APPLICATION NUMBER: US/11/041,893
;  CURRENT FILING DATE:  2005-01-24
;  PRIOR APPLICATION NUMBER: US 60/616,855
;  PRIOR FILING DATE: 2004-10-06
;  PRIOR APPLICATION NUMBER: US 60/538,713
;  PRIOR FILING DATE: 2004-01-23
;  NUMBER OF SEQ ID NOS: 295
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 101
;   LENGTH: 35
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;   ORGANISM: Human Papillomavirus E7
US-11-041-893-101

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Db         10 YNIVTFCCK 18


RESULT 2
US-10-511-814-8
; Sequence 8, Application US/10511814
; Publication No. US20060088472A1
; GENERAL INFORMATION:
;  APPLICANT: McCance, Dennis
;  APPLICANT:  Westbrook, III, Thomas F.
;  TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
;  FILE REFERENCE: 21108.0016U2
;  CURRENT APPLICATION NUMBER: US/10/511,814
;  CURRENT FILING DATE:  2004-10-19
;  PRIOR APPLICATION NUMBER: PCT/US03/12667
;  PRIOR FILING DATE: 2003-04-21
;  PRIOR APPLICATION NUMBER: 60/374,245
;  PRIOR FILING DATE: 2002-04-19
;  NUMBER OF SEQ ID NOS: 21
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; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
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;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:/Note =
;   OTHER INFORMATION: Synthetic Construct
US-10-511-814-8

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Db         52 YNIVTFCCK 60


RESULT 3
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; Sequence 11, Application US/10511814
; Publication No. US20060088472A1
; GENERAL INFORMATION:
;  APPLICANT: McCance, Dennis
;  APPLICANT:  Westbrook, III, Thomas F.
;  TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
;  FILE REFERENCE: 21108.0016U2
;  CURRENT APPLICATION NUMBER: US/10/511,814
;  CURRENT FILING DATE:  2004-10-19
;  PRIOR APPLICATION NUMBER: PCT/US03/12667
;  PRIOR FILING DATE: 2003-04-21
;  PRIOR APPLICATION NUMBER: 60/374,245
;  PRIOR FILING DATE: 2002-04-19
;  NUMBER OF SEQ ID NOS: 21
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; SEQ ID NO 11
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;   TYPE: PRT
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;   OTHER INFORMATION: Description of Artificial Sequence:/Note =
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US-10-511-814-11

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Db         52 YNIVTFCCK 60


RESULT 4
US-10-530-253-14
; Sequence 14, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
```

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;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 14
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-14

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Db         52 YNIVTFCCK 60


RESULT 5
US-11-179-478-4
; Sequence 4, Application US/11179478
; Publication No. US20050249745A1
;  GENERAL INFORMATION:
;    APPLICANT:  BURGER, Alexander
;    APPLICANT:  HALLEK, Michael
;    TITLE OF INVENTION:  PAPILLOMA VIRUS CAPSOMERE VACCINE
;    TITLE OF INVENTION:  FORMULATIONS AND METHODS OF USE
;    NUMBER OF SEQUENCES:  28
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  FOLEY & LARDNER
;      STREET:  3000 K Street, N.W.
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20007-5109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/11/179,478
;      FILING DATE:  13-JULY-2005
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/10/654,129
;      FILING DATE:  04-Sep-2003
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Sandercock, Colin G.
;      REGISTRATION NUMBER:  31,298
;      REFERENCE/DOCKET NUMBER:  37067/102
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 672-5300
;      TELEFAX:  (202) 672-5399
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  98 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-11-179-478-4

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Db         52 YNIVTFCCK 60


RESULT 6
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-1

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Qy          1 YNIVTFCCK 9
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Db        202 YNIVTFCCK 210


RESULT 7
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-3

  Query Match            100.0%;  Score 55;  DB 9;  Length 248;
  Best Local Similarity  100.0%;  Pred. No. 0.017;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db        202 YNIVTFCCK 210
```

```
RESULT 8
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-5

  Query Match             100.0%;  Score 55;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.017;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db        202 YNIVTFCCK 210


RESULT 9
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-7

  Query Match             100.0%;  Score 55;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.017;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 10
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-9

  Query Match             100.0%;  Score 55;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.017;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 11
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-11

  Query Match             100.0%;  Score 55;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.017;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 12
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
;  APPLICANT: PANG, XIAOWU
;  TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
;  TITLE OF INVENTION:  RECOMBINANT REPLICON
;  FILE REFERENCE: 116620-003
```

```
;  CURRENT APPLICATION NUMBER: US/11/192,923A
;  CURRENT FILING DATE:  2005-07-29
;  PRIOR APPLICATION NUMBER: CN 03115272.4
;  PRIOR FILING DATE: 2003-01-30
;  PRIOR APPLICATION NUMBER: CN 03115273.2
;  PRIOR FILING DATE: 2003-01-30
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
;   LENGTH: 256
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-11-192-923A-2

  Query Match           100.0%;  Score 55;  DB 11;  Length 256;
  Best Local Similarity  100.0%;  Pred. No. 0.018;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |||||||||
Db         52 YNIVTFCCK 60


RESULT 13
US-10-530-253-28
; Sequence 28, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 28
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 31
US-10-530-253-28

  Query Match           92.7%;  Score 51;  DB 9;  Length 98;
  Best Local Similarity  88.9%;  Pred. No. 0.039;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              ||||||||:
Db         52 YNIVTFCCQ 60


RESULT 14
US-10-530-253-30
; Sequence 30, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 30
;   LENGTH: 99
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 35
US-10-530-253-30

  Query Match           85.5%;  Score 47;  DB 9;  Length 99;
  Best Local Similarity  88.9%;  Pred. No. 0.19;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              ||||| |||
Db         53 YNIVTSCCK 61


RESULT 15
US-10-530-061-666
; Sequence 666, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 666
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-666

  Query Match           80.0%;  Score 44;  DB 9;  Length 10;
  Best Local Similarity  87.5%;  Pred. No. 0.094;
  Matches    7;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 NIVTFCCK 9
              |||||||:
Db          1 NIVTFCCQ 8


RESULT 16
US-10-530-061-665
; Sequence 665, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
```

```
; SEQ ID NO 665
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-665

  Query Match             78.2%;  Score 43;  DB 9;  Length 10;
  Best Local Similarity   75.0%;  Pred. No. 0.14;
  Matches    6;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 NIVTFCCK 9
              |:|||||:
Db          1 NVVTFCCQ 8


RESULT 17
US-10-530-253-37
; Sequence 37, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 37
;   LENGTH: 107
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 59
US-10-530-253-37

  Query Match             67.3%;  Score 37;  DB 9;  Length 107;
  Best Local Similarity   66.7%;  Pred. No. 11;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              :|||  |||
Db         61 HNIVCVCCK 69


RESULT 18
US-10-467-657-688
; Sequence 688, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
;  APPLICANT: CHIRON SpA
;  APPLICANT: FONTANA Maria Rita
;  APPLICANT: PIZZA Mariagrazia
;  APPLICANT: MASIGNANI Vega
;  APPLICANT: MONACI Elisabetta
;  TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
;  FILE REFERENCE:
;  CURRENT APPLICATION NUMBER: US/10/467,657
;  CURRENT FILING DATE:  2003-08-11
;  PRIOR APPLICATION NUMBER: GB-0103424.8
;  PRIOR FILING DATE: 2001-02-12
;  NUMBER OF SEQ ID NOS: 9218
;  SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 688
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Neisseria gonorrhoeae
US-10-467-657-688

  Query Match             65.5%;  Score 36;  DB 9;  Length 149;
  Best Local Similarity   75.0%;  Pred. No. 22;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 NIVTFCCK 9
              |:||| ||
Db        118 NLVTFICK 125


RESULT 19
US-10-515-604-2
; Sequence 2, Application US/10515604
; Publication No. US20060057143A1
; GENERAL INFORMATION:
;  APPLICANT: Golz, Stefan
;  APPLICANT:  Bruggemeier, Ulf
;  APPLICANT:  Geerts, Andreas
;  TITLE OF INVENTION: Diagnostics and Therapeutics for Diseases Associated with
;  TITLE OF INVENTION:  Chemokine Receptor 11 (CCR11)
;  FILE REFERENCE: Le A 36 103
;  CURRENT APPLICATION NUMBER: US/10/515,604
;  CURRENT FILING DATE:  2005-06-27
;  PRIOR APPLICATION NUMBER: PCT/EP03/04915
;  PRIOR FILING DATE: 2003-05-12
;  PRIOR APPLICATION NUMBER: EP 02011528.3
;  PRIOR FILING DATE: 2002-05-23
;  NUMBER OF SEQ ID NOS: 5
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2
;   LENGTH: 350
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-515-604-2

  Query Match             63.6%;  Score 35;  DB 9;  Length 350;
  Best Local Similarity   85.7%;  Pred. No. 66;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 YNIVTFC 7
              |||| ||
Db        256 YNIVKFC 262


RESULT 20
US-11-090-439-18
; Sequence 18, Application US/11090439
; Publication No. US20050266442A1
; GENERAL INFORMATION:
;  APPLICANT: Squillace, Rachel
;  APPLICANT:  Weiner, Michael P.
;  TITLE OF INVENTION: Immortalized Human Tuberous Sclerosis Null
;  TITLE OF INVENTION:  Angiomyolipoma Cell and Method of Use Thereof
;  FILE REFERENCE: 24318-502
;  CURRENT APPLICATION NUMBER: US/11/090,439
;  CURRENT FILING DATE:  2005-03-25
;  PRIOR APPLICATION NUMBER: 60/556,344
;  PRIOR FILING DATE: 2004-03-25
;  NUMBER OF SEQ ID NOS: 62
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
;   LENGTH: 553
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-090-439-18

  Query Match             63.6%;  Score 35;  DB 11;  Length 553;
  Best Local Similarity   57.1%;  Pred. No. 96;
  Matches    4;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 NIVTFCC 8
              |:: |||
Db        411 NVIRFCC 417
```

```
RESULT 21
US-11-079-463-8474
; Sequence 8474, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PATH00-03DIV2
;  CURRENT APPLICATION NUMBER: US/11/079,463
;  CURRENT FILING DATE:  2005-03-14
;  PRIOR APPLICATION NUMBER: US 60/128,705
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/540,209
;  PRIOR FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 8474
;   LENGTH: 702
;   TYPE: PRT
;   ORGANISM: B.fragilis
US-11-079-463-8474

  Query Match             63.6%;  Score 35;  DB 11;  Length 702;
  Best Local Similarity   62.5%;  Pred. No. 1.2e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCC 8
              |: | |||
Db         35 YSCVAFCC 42


RESULT 22
US-10-530-061-859
; Sequence 859, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 859
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-859

  Query Match             61.8%;  Score 34;  DB 9;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 5;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          5 TFCCK 9
              |||||
Db          1 TFCCK 5


RESULT 23
US-10-530-061-656
; Sequence 656, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 656
;   LENGTH: 11
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-656

  Query Match             61.8%;  Score 34;  DB 9;  Length 11;
  Best Local Similarity   100.0%;  Pred. No. 5.5;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          5 TFCCK 9
              |||||
Db          1 TFCCK 5


RESULT 24
US-11-004-399-2186
; Sequence 2186, Application US/11004399
; Publication No. US20060053516A1
; GENERAL INFORMATION:
;  APPLICANT: Chye, Mee Lee
;  APPLICANT:  Li, Hong Ye
;  APPLICANT:  Ramalingam, Sathiskumar
;  APPLICANT:  Poon, Leo Lit Man
;  APPLICANT:  Peiris, Joseph Sriyal Malik
;  TITLE OF INVENTION: Genetically Modified Plants Comprising SARS-CoV Viral Nucleotide
;  TITLE OF INVENTION:  Sequences and Methods of Use Thereof For Immunization Against SA
;  FILE REFERENCE: 2587/73166/RDK
;  CURRENT APPLICATION NUMBER: US/11/004,399
;  CURRENT FILING DATE:  2004-12-03
;  PRIOR APPLICATION NUMBER: US 60/527,637
;  PRIOR FILING DATE: 2003-12-03
;  NUMBER OF SEQ ID NOS: 4043
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2186
;   LENGTH: 46
;   TYPE: PRT
;   ORGANISM: SARS-CoV Virus
US-11-004-399-2186

  Query Match             61.8%;  Score 34;  DB 11;  Length 46;
  Best Local Similarity   100.0%;  Pred. No. 18;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 NIVTFC 7
              ||||||
Db          1 NIVTFC 6


RESULT 25
US-10-644-807-252
; Sequence 252, Application US/10644807
; Publication No. US20060057582A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: 83 Human Secreted Proteins
;  FILE REFERENCE: PS735
;  CURRENT APPLICATION NUMBER: US/10/644,807
;  CURRENT FILING DATE:  2003-08-21
```

```
;  PRIOR APPLICATION NUMBER: PCT/US02/05064
;  PRIOR FILING DATE: 2002-02-21
;  PRIOR APPLICATION NUMBER: 60/270,658
;  PRIOR FILING DATE: 2001-02-23
;  PRIOR APPLICATION NUMBER: 60/304,444
;  PRIOR FILING DATE: 2001-07-12
;  NUMBER OF SEQ ID NOS: 445
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 252
;   LENGTH: 306
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-644-807-252

  Query Match             61.8%;  Score 34;  DB 9;  Length 306;
  Best Local Similarity   100.0%;  Pred. No. 87;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          5 TFCCK 9
              |||||
Db        111 TFCCK 115


RESULT 26
US-10-644-807-347
; Sequence 347, Application US/10644807
; Publication No. US20060057582A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: 83 Human Secreted Proteins
;  FILE REFERENCE: PS735
;  CURRENT APPLICATION NUMBER: US/10/644,807
;  CURRENT FILING DATE:  2003-08-21
;  PRIOR APPLICATION NUMBER: PCT/US02/05064
;  PRIOR FILING DATE: 2002-02-21
;  PRIOR APPLICATION NUMBER: 60/270,658
;  PRIOR FILING DATE: 2001-02-23
;  PRIOR APPLICATION NUMBER: 60/304,444
;  PRIOR FILING DATE: 2001-07-12
;  NUMBER OF SEQ ID NOS: 445
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 347
;   LENGTH: 306
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-644-807-347

  Query Match             61.8%;  Score 34;  DB 9;  Length 306;
  Best Local Similarity   100.0%;  Pred. No. 87;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          5 TFCCK 9
              |||||
Db        111 TFCCK 115


RESULT 27
US-11-098-686-10553
; Sequence 10553, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
;  APPLICANT: Kapur, Vivek and Gebhart, Connie J.
;  TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
;  TITLE OF INVENTION:  FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
;  FILE REFERENCE: 09531-128001
;  CURRENT APPLICATION NUMBER: US/11/098,686
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31318
;  PRIOR FILING DATE: 2003-10-01
;  PRIOR APPLICATION NUMBER: US 60/416,395
;  PRIOR FILING DATE: 2002-10-04
;  NUMBER OF SEQ ID NOS: 11433
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10553
;   LENGTH: 436
;   TYPE: PRT
;   ORGANISM: Lawsonia intracellularis
US-11-098-686-10553

  Query Match             61.8%;  Score 34;  DB 11;  Length 436;
  Best Local Similarity   66.7%;  Pred. No. 1.2e+02;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              ::|||| ||
Db          8 FSIVTFGCK 16


RESULT 28
US-11-096-568A-31950
; Sequence 31950, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides E
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 31950
;   LENGTH: 489
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(489)
;   OTHER INFORMATION: Ceres Seq. ID no. 13591792
US-11-096-568A-31950

  Query Match             61.8%;  Score 34;  DB 11;  Length 489;
  Best Local Similarity   50.0%;  Pred. No. 1.3e+02;
  Matches    4;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 NIVTFCCK 9
              |:: |||:
Db        113 NLIGFCCE 120


RESULT 29
US-11-087-099-323
; Sequence 323, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 323
;   LENGTH: 520
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
US-11-087-099-323

  Query Match             61.8%;  Score 34;  DB 11;  Length 520;
  Best Local Similarity   57.1%;  Pred. No. 1.4e+02;
  Matches    4;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 IVTFCCK 9
              ::||||:
Db        318 VLTFCCE 324


RESULT 30
```

```
US-11-087-099-2677
; Sequence 2677, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 2677
;   LENGTH: 755
;   TYPE: PRT
;   ORGANISM: Novosphingobium aromaticivorans
US-11-087-099-2677

  Query Match             61.8%;  Score 34;  DB 11;  Length 755;
  Best Local Similarity   50.0%;  Pred. No. 1.9e+02;
  Matches    4;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 NIVTFCCK 9
              |:  |||:
Db        511 NVAAFCCE 518


RESULT 31
US-11-129-741-3574
; Sequence 3574, Application US/11129741
; Publication No. US20060034853A1
; GENERAL INFORMATION:
;  APPLICANT: YUEN, KWOK YUNG
;  APPLICANT:  WOO, CHIU YAT PATRICK
;  APPLICANT:  LAU, KAR PUI SUSANNA
;  APPLICANT:  CHAN, KWOK HUNG
;  APPLICANT:  POON, LIT MAN
;  APPLICANT:  PEIRIS, JOSEPH S.M.
;  APPLICANT:  GUAN, YI
;  TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT
;  TITLE OF INVENTION:  INFECTION AND USES THEREOF
;  FILE REFERENCE: V0690.0044
;  CURRENT APPLICATION NUMBER: US/11/129,741
;  CURRENT FILING DATE:  2005-05-16
;  PRIOR APPLICATION NUMBER: 10/895,064
;  PRIOR FILING DATE: 2004-07-21
;  NUMBER OF SEQ ID NOS: 4257
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3574
;   LENGTH: 28
;   TYPE: PRT
;   ORGANISM: Corononavirus-HKU1
US-11-129-741-3574

  Query Match             60.0%;  Score 33;  DB 11;  Length 28;
  Best Local Similarity   44.4%;  Pred. No. 18;
  Matches    4;  Conservative    3;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              | |:: ||:
Db         19 YGILSLCCR 27


RESULT 32
US-11-096-568A-8617
; Sequence 8617, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 8617
;   LENGTH: 108
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(108)
;   OTHER INFORMATION: Ceres Seq. ID no. 15168883
US-11-096-568A-8617

  Query Match             60.0%;  Score 33;  DB 11;  Length 108;
  Best Local Similarity   62.5%;  Pred. No. 54;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCC 8
              ||  :|||
Db         41 YNPSSFCC 48


RESULT 33
US-11-096-568A-8616
; Sequence 8616, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 8616
;   LENGTH: 112
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(112)
;   OTHER INFORMATION: Ceres Seq. ID no. 15168882
US-11-096-568A-8616

  Query Match             60.0%;  Score 33;  DB 11;  Length 112;
  Best Local Similarity   62.5%;  Pred. No. 56;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCC 8
              ||  :|||
Db         45 YNPSSFCC 52


RESULT 34
US-11-096-568A-8615
; Sequence 8615, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 8615
;   LENGTH: 122
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(122)
;   OTHER INFORMATION: Ceres Seq. ID no. 15168881
US-11-096-568A-8615

  Query Match             60.0%;  Score 33;  DB 11;  Length 122;
```

```
  Best Local Similarity   62.5%;  Pred. No. 60;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCC 8
              ||  :|||
Db         55 YNPSSFCC 62


RESULT 35
US-11-096-568A-23873
; Sequence 23873, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 23873
;   LENGTH: 198
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(198)
;   OTHER INFORMATION: Ceres Seq. ID no. 12416017
US-11-096-568A-23873

  Query Match             60.0%;  Score 33;  DB 11;  Length 198;
  Best Local Similarity   62.5%;  Pred. No. 90;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCC 8
              ||:||  |
Db         44 YNVVTLLC 51


RESULT 36
US-11-096-568A-23872
; Sequence 23872, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 23872
;   LENGTH: 227
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(227)
;   OTHER INFORMATION: Ceres Seq. ID no. 12416016
US-11-096-568A-23872

  Query Match             60.0%;  Score 33;  DB 11;  Length 227;
  Best Local Similarity   62.5%;  Pred. No. 1e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCC 8
              ||:||  |
Db         73 YNVVTLLC 80


RESULT 37
US-11-127-877-56
; Sequence 56, Application US/11127877
; Publication No. US20050287565A1
; GENERAL INFORMATION:
;  APPLICANT: Merchiers, Pascal G.
;  APPLICANT:  Hoffmann, Marcel
;  APPLICANT:  Spittaels, Koenraad F. F.
;  APPLICANT:  Laenen, Wendy
;  TITLE OF INVENTION: Methods, Compositions and Compound Assays For Inhibiting
;  TITLE OF INVENTION:  Amyloid-Beta Protein Production
;  FILE REFERENCE: P27,800-B USA
;  CURRENT APPLICATION NUMBER: US/11/127,877
;  CURRENT FILING DATE:  2005-05-12
;  PRIOR APPLICATION NUMBER: 60/570,352
;  PRIOR FILING DATE: 2004-05-12
;  PRIOR APPLICATION NUMBER: 60/603,948
;  PRIOR FILING DATE: 2004-08-24
;  NUMBER OF SEQ ID NOS: 590
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 56
;   LENGTH: 407
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-127-877-56

  Query Match             60.0%;  Score 33;  DB 11;  Length 407;
  Best Local Similarity   50.0%;  Pred. No. 1.6e+02;
  Matches    4;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCC 8
              || : :||
Db        300 YNPIIYCC 307


RESULT 38
US-10-943-015-4
; Sequence 4, Application US/10943015
; Publication No. US20060019261A1
; GENERAL INFORMATION:
;  APPLICANT: MIKOSHIBA, KATSUHIKO
;  APPLICANT:  MIZUTANI, AKIHIRO
;  TITLE OF INVENTION: RNA-BINDING PROTEIN
;  FILE REFERENCE: 081356/0162
;  CURRENT APPLICATION NUMBER: US/10/943,015
;  CURRENT FILING DATE:  2004-09-17
;  PRIOR APPLICATION NUMBER: US/09/821,687
;  PRIOR FILING DATE: 2001-07-03
;  PRIOR APPLICATION NUMBER: JP 2000-299812
;  PRIOR FILING DATE: 2000-09-29
;  NUMBER OF SEQ ID NOS: 11
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
;   LENGTH: 561
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-10-943-015-4

  Query Match             60.0%;  Score 33;  DB 9;  Length 561;
  Best Local Similarity   66.7%;  Pred. No. 2.2e+02;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              |  |||| |
Db        205 YAFVTFCTK 213


RESULT 39
US-10-455-772-1074
; Sequence 1074, Application US/10455772
; Publication No. US20060084054A1
; GENERAL INFORMATION:
;  APPLICANT: John Alsobrook et al.
;  TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
;  FILE REFERENCE: 21402-589C
;  CURRENT APPLICATION NUMBER: US/10/455,772
```

; CURRENT FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: 60/385615
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/402268
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 60/387606
; PRIOR FILING DATE: 2002-06-11
; PRIOR APPLICATION NUMBER: 60/386357
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/385755
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/386355
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/385490
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/420718
; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 60/386447
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/386465
; PRIOR FILING DATE: 2002-06-06
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1540
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 1074
; LENGTH: 850
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-455-772-1074

Query Match 60.0%; Score 33; DB 9; Length 850;
Best Local Similarity 44.4%; Pred. No. 3e+02;
Matches 4; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

```
Qy          1 YNIVTFCCK 9
              | |  :||:
Db        412 YGIAQYCCR 420
```

RESULT 40
US-10-455-772-1078
; Sequence 1078, Application US/10455772
; Publication No. US20060084054A1
; GENERAL INFORMATION:
; APPLICANT: John Alsobrook et al.
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-589C
; CURRENT APPLICATION NUMBER: US/10/455,772
; CURRENT FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: 60/385615
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/402268
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 60/387606
; PRIOR FILING DATE: 2002-06-11
; PRIOR APPLICATION NUMBER: 60/386357
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/385755
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/386355
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/385490
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/420718
; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 60/386447
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/386465
; PRIOR FILING DATE: 2002-06-06
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1540
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 1078
; LENGTH: 911
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-455-772-1078

Query Match 60.0%; Score 33; DB 9; Length 911;
Best Local Similarity 44.4%; Pred. No. 3.2e+02;
Matches 4; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

```
Qy          1 YNIVTFCCK 9
              | |  :||:
Db        412 YGIAQYCCR 420
```

RESULT 41
US-10-455-772-1076
; Sequence 1076, Application US/10455772
; Publication No. US20060084054A1
; GENERAL INFORMATION:
; APPLICANT: John Alsobrook et al.
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-589C
; CURRENT APPLICATION NUMBER: US/10/455,772
; CURRENT FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: 60/385615
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/402268
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 60/387606
; PRIOR FILING DATE: 2002-06-11
; PRIOR APPLICATION NUMBER: 60/386357
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/385755
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/386355
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/385490
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/420718
; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 60/386447
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/386465
; PRIOR FILING DATE: 2002-06-06
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1540
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 1076
; LENGTH: 915
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-455-772-1076

Query Match 60.0%; Score 33; DB 9; Length 915;
Best Local Similarity 44.4%; Pred. No. 3.2e+02;
Matches 4; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

```
Qy          1 YNIVTFCCK 9
              | |  :||:
Db        412 YGIAQYCCR 420
```

RESULT 42
US-10-455-772-1080
; Sequence 1080, Application US/10455772
; Publication No. US20060084054A1
; GENERAL INFORMATION:
; APPLICANT: John Alsobrook et al.
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-589C
; CURRENT APPLICATION NUMBER: US/10/455,772
; CURRENT FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: 60/385615

```
;  PRIOR FILING DATE: 2002-06-04
;  PRIOR APPLICATION NUMBER: 60/402268
;  PRIOR FILING DATE: 2002-08-09
;  PRIOR APPLICATION NUMBER: 60/387606
;  PRIOR FILING DATE: 2002-06-11
;  PRIOR APPLICATION NUMBER: 60/386357
;  PRIOR FILING DATE: 2002-06-06
;  PRIOR APPLICATION NUMBER: 60/385755
;  PRIOR FILING DATE: 2002-06-04
;  PRIOR APPLICATION NUMBER: 60/386355
;  PRIOR FILING DATE: 2002-06-06
;  PRIOR APPLICATION NUMBER: 60/385490
;  PRIOR FILING DATE: 2002-06-04
;  PRIOR APPLICATION NUMBER: 60/420718
;  PRIOR FILING DATE: 2002-10-23
;  PRIOR APPLICATION NUMBER: 60/386447
;  PRIOR FILING DATE: 2002-06-06
;  PRIOR APPLICATION NUMBER: 60/386465
;  PRIOR FILING DATE: 2002-06-06
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 1540
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 1080
;   LENGTH: 921
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-455-772-1080

  Query Match             60.0%;  Score 33;  DB 9;  Length 921;
  Best Local Similarity   44.4%;  Pred. No. 3.3e+02;
  Matches    4;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
              | |  :||:
Db        412 YGIAQYCCR 420


RESULT 43
US-10-455-772-1072
; Sequence 1072, Application US/10455772
; Publication No. US20060084054A1
; GENERAL INFORMATION:
;  APPLICANT: John Alsobrook et al.
;  TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
;  FILE REFERENCE: 21402-589C
;  CURRENT APPLICATION NUMBER: US/10/455,772
;  CURRENT FILING DATE:  2003-06-04
;  PRIOR APPLICATION NUMBER: 60/385615
;  PRIOR FILING DATE: 2002-06-04
;  PRIOR APPLICATION NUMBER: 60/402268
;  PRIOR FILING DATE: 2002-08-09
;  PRIOR APPLICATION NUMBER: 60/387606
;  PRIOR FILING DATE: 2002-06-11
;  PRIOR APPLICATION NUMBER: 60/386357
;  PRIOR FILING DATE: 2002-06-06
;  PRIOR APPLICATION NUMBER: 60/385755
;  PRIOR FILING DATE: 2002-06-04
;  PRIOR APPLICATION NUMBER: 60/386355
;  PRIOR FILING DATE: 2002-06-06
;  PRIOR APPLICATION NUMBER: 60/385490
;  PRIOR FILING DATE: 2002-06-04
;  PRIOR APPLICATION NUMBER: 60/420718
;  PRIOR FILING DATE: 2002-10-23
;  PRIOR APPLICATION NUMBER: 60/386447
;  PRIOR FILING DATE: 2002-06-06
;  PRIOR APPLICATION NUMBER: 60/386465
;  PRIOR FILING DATE: 2002-06-06
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 1540
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 1072
;   LENGTH: 978
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-455-772-1072

  Query Match             60.0%;  Score 33;  DB 9;  Length 978;
  Best Local Similarity   44.4%;  Pred. No. 3.4e+02;
  Matches    4;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 YNIVTFCCK 9
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Db        533 YGIAQYCCR 541


RESULT 44
US-10-530-253-41
; Sequence 41, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 41
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-41

  Query Match             58.2%;  Score 32;  DB 9;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.9e+05;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YNIVTF 6
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Db          4 YNIVTF 9


RESULT 45
US-10-962-951-9
; Sequence 9, Application US/10962951
; Publication No. US20060029610A1
; GENERAL INFORMATION:
;  APPLICANT: Argon, Yair
;  APPLICANT:  Gidalevitz, Tali
;  APPLICANT:  Biswas, Chhanda
;  APPLICANT:  Simen, Birgitte B.
;  APPLICANT:  Wanderling, Sherry
;  APPLICANT:  Ostrovsky, Olga
;  TITLE OF INVENTION: GRP94-BASED COMPOSITIONS AND METHODS OF
;  TITLE OF INVENTION:  USE THEREOF
;  FILE REFERENCE: 3460-CHOP.C-206US
;  CURRENT APPLICATION NUMBER: US/10/962,951
;  CURRENT FILING DATE:  2004-10-12
;  PRIOR APPLICATION NUMBER: US/10/844,711
;  PRIOR FILING DATE: 2004-05-12
;  PRIOR APPLICATION NUMBER: 60/469,723
;  PRIOR FILING DATE: 2003-05-12
;  PRIOR APPLICATION NUMBER: 60/477,990
;  PRIOR FILING DATE: 2003-06-12
;  PRIOR APPLICATION NUMBER: 60/478,149
;  PRIOR FILING DATE: 2003-06-12
;  PRIOR APPLICATION NUMBER: 60/556,362
;  PRIOR FILING DATE: 2004-04-28
;  PRIOR APPLICATION NUMBER: 60/566,363
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; PRIOR FILING DATE: 2004-04-28
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 9
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: RAH
US-10-962-951-9

Query Match 58.2%; Score 32; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YNIVTF 6
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Db 4 YNIVTF 9

RESULT 46
US-11-041-893-100
; Sequence 100, Application US/11041893
; Publication No. US20060002941A1
; GENERAL INFORMATION:
; APPLICANT: Mahairas, Gregory G.
; TITLE OF INVENTION: COMPOSITIONS COMPRISING IMMUNE RESPONSE
; TITLE OF INVENTION: ALTERING AGENTS AND METHODS OF USE
; FILE REFERENCE: 100123.401
; CURRENT APPLICATION NUMBER: US/11/041,893
; CURRENT FILING DATE: 2005-01-24
; PRIOR APPLICATION NUMBER: US 60/616,855
; PRIOR FILING DATE: 2004-10-06
; PRIOR APPLICATION NUMBER: US 60/538,713
; PRIOR FILING DATE: 2004-01-23
; NUMBER OF SEQ ID NOS: 295
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 100
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papillomavirus E7
US-11-041-893-100

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Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YNIVTF 6
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Db 4 YNIVTF 9

RESULT 47
US-11-121-840-5
; Sequence 5, Application US/11121840
; Publication No. US20060008472A1
; GENERAL INFORMATION:
; APPLICANT: Huang, Leaf
; APPLICANT: Cui, Zhengrong
; APPLICANT: Dileo, John
; APPLICANT: Han, Su-Ji
; APPLICANT: Vangasseri, Dileep P.
; APPLICANT: University of Pittsburgh
; TITLE OF INVENTION: Antigen Delivery Compositions and Methods of Use
; FILE REFERENCE: 022317-000110US
; CURRENT APPLICATION NUMBER: US/11/121,840
; CURRENT FILING DATE: 2005-05-02
; PRIOR APPLICATION NUMBER: US 60/567,291
; PRIOR FILING DATE: 2004-04-30
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:human
; OTHER INFORMATION: papillomavirus subtype 16 E7 oncogene
; OTHER INFORMATION: tumor-associated antigen MHC class I restricted
; OTHER INFORMATION: peptide
US-11-121-840-5

Query Match 58.2%; Score 32; DB 11; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YNIVTF 6
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Db 4 YNIVTF 9

RESULT 48
US-11-119-293-22
; Sequence 22, Application US/11119293
; Publication No. US20060019339A1
; GENERAL INFORMATION:
; APPLICANT: Lauth, Xavier
; TITLE OF INVENTION: Measurement of bioactive hepcidin
; FILE REFERENCE: 05-KST/104
; CURRENT APPLICATION NUMBER: US/11/119,293
; CURRENT FILING DATE: 2005-04-28
; PRIOR APPLICATION NUMBER: US 60/566,387
; PRIOR FILING DATE: 2004-04-28
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 22
; LENGTH: 24
; TYPE: PRT
; ORGANISM: Salmo salar
US-11-119-293-22

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Best Local Similarity 55.6%; Pred. No. 23;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 YNIVTFCCK 9
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Db 3 FPICLFCCK 11

RESULT 49
US-11-119-293-29
; Sequence 29, Application US/11119293
; Publication No. US20060019339A1
; GENERAL INFORMATION:
; APPLICANT: Lauth, Xavier
; TITLE OF INVENTION: Measurement of bioactive hepcidin
; FILE REFERENCE: 05-KST/104
; CURRENT APPLICATION NUMBER: US/11/119,293
; CURRENT FILING DATE: 2005-04-28
; PRIOR APPLICATION NUMBER: US 60/566,387
; PRIOR FILING DATE: 2004-04-28
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 29
; LENGTH: 25
; TYPE: PRT
; ORGANISM: Mus musculus
US-11-119-293-29

Query Match 58.2%; Score 32; DB 11; Length 25;
Best Local Similarity 55.6%; Pred. No. 24;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 YNIVTFCCK 9
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Db          4 FPICIFCCK 12


RESULT 50
US-11-119-293-33
; Sequence 33, Application US/11119293
; Publication No. US20060019339A1
; GENERAL INFORMATION:
;  APPLICANT: Lauth, Xavier
;  TITLE OF INVENTION: Measurement of bioactive hepcidin
;  FILE REFERENCE: 05-KST/104
;  CURRENT APPLICATION NUMBER: US/11/119,293
;  CURRENT FILING DATE:  2005-04-28
;  PRIOR APPLICATION NUMBER: US 60/566,387
;  PRIOR FILING DATE: 2004-04-28
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 33
;   LENGTH: 25
;   TYPE: PRT
;   ORGANISM: Rattus norvegicus
US-11-119-293-33

  Query Match             58.2%;  Score 32;  DB 11;  Length 25;
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Qy          1 YNIVTFCCK 9
              : |  ||||
Db          4 FPICLFCCK 12


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OM protein - protein search, using sw model

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Title: US-08-170-344-61
Perfect score: 56
Sequence: 1 CCKCDSTLR 9

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Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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| 4 | 56 | 100.0 | 20 | 1 | US-08-934-915-48 | Sequence 48, Appl |
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| 8 | 56 | 100.0 | 30 | 1 | US-08-934-915-53 | Sequence 53, Appl |
| 9 | 56 | 100.0 | 30 | 2 | US-09-486-394-3 | Sequence 3, Appli |
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| 13 | 56 | 100.0 | 98 | 2 | US-09-382-616A-1 | Sequence 1, Appli |
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| 34 | 56 | 100.0 | 198 | 2 | US-10-267-311-35 | Sequence 35, Appl |
| 35 | 56 | 100.0 | 220 | 2 | US-09-485-885-1 | Sequence 1, Appli |
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| 50 | 56 | 100.0 | 324 | 2 | US-09-613-303-25 | Sequence 25, Appl |
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| 54 | 56 | 100.0 | 420 | 2 | US-09-501-097A-22 | Sequence 22, Appl |
| 55 | 56 | 100.0 | 493 | 2 | US-09-613-303-19 | Sequence 19, Appl |
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| 63 | 56 | 100.0 | 648 | 2 | US-09-613-303-29 | Sequence 29, Appl |
| 64 | 56 | 100.0 | 648 | 2 | US-10-267-311-29 | Sequence 29, Appl |
| 65 | 56 | 100.0 | 711 | 2 | US-09-613-303-41 | Sequence 41, Appl |
| 66 | 56 | 100.0 | 711 | 2 | US-10-267-311-41 | Sequence 41, Appl |
| 67 | 56 | 100.0 | 723 | 2 | US-09-501-097A-20 | Sequence 20, Appl |
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| 69 | 56 | 100.0 | 724 | 2 | US-10-267-311-45 | Sequence 45, Appl |
| 70 | 51 | 91.1 | 10 | 2 | US-10-365-908-8 | Sequence 8, Appli |
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| 72 | 47 | 83.9 | 9 | 2 | US-10-365-908-44 | Sequence 44, Appl |
| 73 | 47 | 83.9 | 20 | 2 | US-09-980-177A-73 | Sequence 73, Appl |
| 74 | 45 | 80.4 | 30 | 1 | US-08-934-915-71 | Sequence 71, Appl |
| 75 | 42 | 75.0 | 1147 | 1 | US-08-144-121-3 | Sequence 3, Appli |
| 76 | 42 | 75.0 | 1147 | 1 | US-08-735-893-3 | Sequence 3, Appli |
| 77 | 42 | 75.0 | 1147 | 2 | US-10-841-139-3 | Sequence 3, Appli |
| 78 | 42 | 75.0 | 1153 | 2 | US-09-560-385A-16 | Sequence 16, Appl |
| 79 | 42 | 75.0 | 1155 | 2 | US-09-560-385A-24 | Sequence 24, Appl |
| 80 | 42 | 75.0 | 1165 | 1 | US-08-144-121-2 | Sequence 2, Appli |
| 81 | 42 | 75.0 | 1165 | 1 | US-08-735-893-2 | Sequence 2, Appli |
| 82 | 42 | 75.0 | 1165 | 2 | US-10-841-139-2 | Sequence 2, Appli |
| 83 | 42 | 75.0 | 1167 | 2 | US-09-560-385A-20 | Sequence 20, Appl |
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| 86 | 42 | 75.0 | 1172 | 2 | US-09-919-172-16 | Sequence 16, Appl |
| 87 | 42 | 75.0 | 1174 | 2 | US-09-560-385A-22 | Sequence 22, Appl |
| 88 | 42 | 75.0 | 1186 | 2 | US-09-560-385A-18 | Sequence 18, Appl |
| 89 | 41 | 73.2 | 9 | 2 | US-10-365-908-66 | Sequence 66, Appl |
| 90 | 41 | 73.2 | 10 | 2 | US-10-365-908-84 | Sequence 84, Appl |
| 91 | 41 | 73.2 | 30 | 1 | US-08-934-915-9 | Sequence 9, Appli |
| 92 | 41 | 73.2 | 30 | 1 | US-08-934-915-15 | Sequence 15, Appl |
| 93 | 41 | 73.2 | 375 | 2 | US-09-000-094-22 | Sequence 22, Appl |
| 94 | 41 | 73.2 | 375 | 2 | US-10-011-749-22 | Sequence 22, Appl |
| 95 | 41 | 73.2 | 465 | 2 | US-09-000-094-24 | Sequence 24, Appl |
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| 97 | 41 | 73.2 | 601 | 1 | US-08-606-288-7 | Sequence 7, Appli |
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| 101 | 41 | 73.2 | 1587 | 2 | US-09-000-094-46 | Sequence 46, Appl |
| 102 | 41 | 73.2 | 1587 | 2 | US-10-011-749-46 | Sequence 46, Appl |
| 103 | 39 | 69.6 | 348 | 2 | US-09-415-277C-14 | Sequence 14, Appl |
| 104 | 38 | 67.9 | 9 | 2 | US-08-075-541D-26 | Sequence 26, Appl |
| 105 | 38 | 67.9 | 12 | 2 | US-08-075-541D-27 | Sequence 27, Appl |
| 106 | 38 | 67.9 | 13 | 2 | US-08-075-541D-28 | Sequence 28, Appl |
| 107 | 38 | 67.9 | 14 | 2 | US-08-075-541D-29 | Sequence 29, Appl |
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| 111 | 38 | 67.9 | 19 | 2 | US-09-000-003A-8 | Sequence 8, Appli |
| 112 | 38 | 67.9 | 19 | 2 | US-09-405-986A-9 | Sequence 9, Appli |
| 113 | 38 | 67.9 | 20 | 2 | US-08-075-541D-10 | Sequence 10, Appl |
| 114 | 38 | 67.9 | 26 | 2 | US-08-075-541D-20 | Sequence 20, Appl |
| 115 | 38 | 67.9 | 32 | 2 | US-08-075-541D-7 | Sequence 7, Appli |
| 116 | 38 | 67.9 | 32 | 2 | US-08-075-541D-8 | Sequence 8, Appli |
| 117 | 38 | 67.9 | 175 | 2 | US-09-248-796A-16887 | Sequence 16887, A |
| 118 | 38 | 67.9 | 1276 | 2 | US-08-937-236-3 | Sequence 3, Appli |
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| 120 | 38 | 67.9 | 1291 | 2 | US-08-569-214-3 | Sequence 3, Appli |
| 121 | 38 | 67.9 | 1291 | 2 | US-08-937-236-2 | Sequence 2, Appli |
| 122 | 38 | 67.9 | 1292 | 2 | US-08-569-214-5 | Sequence 5, Appli |
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| 125 | 38 | 67.9 | 1295 | 2 | US-08-569-214-2 | Sequence 2, Appli |
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| 127 | 37 | 66.1 | 169 | 2 | US-09-270-767-36484 | Sequence 36484, A |
| 128 | 37 | 66.1 | 169 | 2 | US-09-270-767-51701 | Sequence 51701, A |
| 129 | 37 | 66.1 | 231 | 1 | US-08-144-121-5 | Sequence 5, Appli |
| 130 | 37 | 66.1 | 231 | 1 | US-08-735-893-5 | Sequence 5, Appli |
| 131 | 37 | 66.1 | 231 | 2 | US-10-841-139-5 | Sequence 5, Appli |
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| 134 | 36 | 64.3 | 30 | 1 | US-08-934-915-64 | Sequence 64, Appl |
| 135 | 36 | 64.3 | 30 | 1 | US-08-934-915-65 | Sequence 65, Appl |
| 136 | 36 | 64.3 | 45 | 2 | US-09-270-767-59596 | Sequence 59596, A |
| 137 | 36 | 64.3 | 80 | 2 | US-09-107-532A-3859 | Sequence 3859, Ap |
| 138 | 36 | 64.3 | 80 | 2 | US-09-107-532A-4249 | Sequence 4249, Ap |
| 139 | 36 | 64.3 | 96 | 2 | US-09-270-767-34782 | Sequence 34782, A |
| 140 | 36 | 64.3 | 96 | 2 | US-09-270-767-49999 | Sequence 49999, A |
| 141 | 36 | 64.3 | 227 | 2 | US-09-485-885-16 | Sequence 16, Appl |
| 142 | 36 | 64.3 | 227 | 2 | US-09-485-885-19 | Sequence 19, Appl |
| 143 | 36 | 64.3 | 242 | 2 | US-09-270-767-44169 | Sequence 44169, A |
| 144 | 36 | 64.3 | 272 | 1 | US-08-117-083-13 | Sequence 13, Appl |
| 145 | 36 | 64.3 | 383 | 2 | US-09-485-885-23 | Sequence 23, Appl |
| 146 | 36 | 64.3 | 430 | 2 | US-08-997-897-2 | Sequence 2, Appli |
| 147 | 36 | 64.3 | 430 | 2 | US-09-156-836B-2 | Sequence 2, Appli |
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| 159 | 35 | 62.5 | 381 | 2 | US-08-467-947A-28 | Sequence 28, Appl |
| 160 | 35 | 62.5 | 381 | 2 | US-09-731-030A-17 | Sequence 17, Appl |
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| 162 | 35 | 62.5 | 381 | 4 | PCT-US96-10618-4 | Sequence 4, Appli |
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| 166 | 34 | 60.7 | 51 | 2 | US-09-270-767-53981 | Sequence 53981, A |
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| 168 | 34 | 60.7 | 152 | 2 | US-09-270-767-53627 | Sequence 53627, A |
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| 170 | 34 | 60.7 | 169 | 2 | US-09-270-767-34552 | Sequence 34552, A |
| 171 | 34 | 60.7 | 169 | 2 | US-09-270-767-49769 | Sequence 49769, A |
| 172 | 34 | 60.7 | 170 | 2 | US-09-489-039A-10017 | Sequence 10017, A |
| 173 | 34 | 60.7 | 184 | 2 | US-09-198-452A-1269 | Sequence 1269, Ap |
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| 175 | 34 | 60.7 | 219 | 2 | US-09-893-737-130 | Sequence 130, App |
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| 188 | 33 | 58.9 | 39 | 1 | US-08-249-322A-40 | Sequence 40, Appl |
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| 190 | 33 | 58.9 | 39 | 1 | US-08-734-591A-40 | Sequence 40, Appl |
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| 195 | 33 | 58.9 | 39 | 4 | PCT-US95-06846A-40 | Sequence 40, Appl |
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| 199 | 33 | 58.9 | 116 | 2 | US-09-921-259-16 | Sequence 16, Appl |
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| 349 | 31 | 55.4 | 57 | 2 | US-09-270-767-36099 | Sequence 36099, A |
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| 357 | 31 | 55.4 | 58 | 2 | US-09-657-279-547 | Sequence 547, App |
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| 657 | 30 | 53.6 | 772 | 2 | US-09-949-016-7315 | Sequence 7315, Ap |
| 658 | 30 | 53.6 | 772 | 2 | US-09-949-016-7316 | Sequence 7316, Ap |
| 659 | 30 | 53.6 | 772 | 2 | US-09-949-016-7317 | Sequence 7317, Ap |
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| 661 | 30 | 53.6 | 794 | 1 | US-08-332-643-54 | Sequence 54, Appl |
| 662 | 30 | 53.6 | 794 | 1 | US-08-332-638-60 | Sequence 60, Appl |
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| 666 | 30 | 53.6 | 1104 | 1 | US-08-222-616-36 | Sequence 36, Appl |
| 667 | 30 | 53.6 | 1104 | 1 | US-08-327-832-5 | Sequence 5, Appli |
| 668 | 30 | 53.6 | 1104 | 1 | US-08-828-584-5 | Sequence 5, Appli |
| 669 | 30 | 53.6 | 1104 | 2 | US-08-446-648-36 | Sequence 36, Appl |
| 670 | 30 | 53.6 | 1104 | 2 | US-09-982-610-36 | Sequence 36, Appl |
| 671 | 30 | 53.6 | 1104 | 4 | PCT-US95-04228-36 | Sequence 36, Appl |
| 672 | 30 | 53.6 | 1152 | 2 | US-09-303-518D-195 | Sequence 195, App |
| 673 | 30 | 53.6 | 1367 | 1 | US-08-249-687C-2 | Sequence 2, Appli |
| 674 | 30 | 53.6 | 1367 | 1 | US-08-625-819-2 | Sequence 2, Appli |
| 675 | 30 | 53.6 | 1367 | 2 | US-08-746-559A-2 | Sequence 2, Appli |
| 676 | 30 | 53.6 | 1367 | 2 | US-08-864-641B-18 | Sequence 18, Appl |
| 677 | 30 | 53.6 | 1367 | 2 | US-09-343-551-2 | Sequence 2, Appli |
| 678 | 30 | 53.6 | 1367 | 2 | US-09-949-001-18 | Sequence 18, Appl |
| 679 | 30 | 53.6 | 1377 | 2 | US-09-949-001-21 | Sequence 21, Appl |
| 680 | 30 | 53.6 | 1461 | 2 | US-10-142-231-86 | Sequence 86, Appl |
| 681 | 30 | 53.6 | 1581 | 2 | US-09-949-002-414 | Sequence 414, App |
| 682 | 30 | 53.6 | 1587 | 2 | US-09-949-002-354 | Sequence 354, App |
| 683 | 30 | 53.6 | 1917 | 2 | US-09-627-650B-5 | Sequence 5, Appli |
| 684 | 30 | 53.6 | 1917 | 2 | US-09-436-063C-5 | Sequence 5, Appli |

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| 902 | 29 | 51.8 | 397 | 1 | US-08-459-871-2 | Sequence 2, Appli |
| 903 | 29 | 51.8 | 397 | 1 | US-08-459-871-4 | Sequence 4, Appli |
| 904 | 29 | 51.8 | 397 | 2 | US-09-270-767-33291 | Sequence 33291, A |
| 905 | 29 | 51.8 | 397 | 2 | US-09-270-767-48508 | Sequence 48508, A |
| 906 | 29 | 51.8 | 397 | 2 | US-10-029-180-40 | Sequence 40, Appl |
| 907 | 29 | 51.8 | 397 | 2 | US-09-779-334A-5 | Sequence 5, Appli |
| 908 | 29 | 51.8 | 399 | 2 | US-09-252-991A-31280 | Sequence 31280, A |
| 909 | 29 | 51.8 | 405 | 2 | US-09-949-016-9433 | Sequence 9433, Ap |
| 910 | 29 | 51.8 | 407 | 2 | US-10-104-047-3074 | Sequence 3074, Ap |
| 911 | 29 | 51.8 | 410 | 2 | US-09-252-991A-19174 | Sequence 19174, A |
| 912 | 29 | 51.8 | 411 | 2 | US-09-329-633A-2 | Sequence 2, Appli |
| 913 | 29 | 51.8 | 411 | 2 | US-09-079-029-1 | Sequence 1, Appli |
| 914 | 29 | 51.8 | 411 | 2 | US-09-134-618-2 | Sequence 2, Appli |
| 915 | 29 | 51.8 | 411 | 2 | US-09-874-138-2 | Sequence 2, Appli |
| 916 | 29 | 51.8 | 411 | 2 | US-09-565-009B-2 | Sequence 2, Appli |
| 917 | 29 | 51.8 | 412 | 2 | US-09-333-593A-2 | Sequence 2, Appli |
| 918 | 29 | 51.8 | 414 | 2 | US-09-354-123-8 | Sequence 8, Appli |
| 919 | 29 | 51.8 | 414 | 2 | US-09-949-016-6906 | Sequence 6906, Ap |
| 920 | 29 | 51.8 | 414 | 2 | US-10-058-518-2 | Sequence 2, Appli |
| 921 | 29 | 51.8 | 415 | 2 | US-09-489-039A-10072 | Sequence 10072, A |
| 922 | 29 | 51.8 | 418 | 2 | US-09-248-796A-17723 | Sequence 17723, A |
| 923 | 29 | 51.8 | 424 | 2 | US-09-333-593A-8 | Sequence 8, Appli |
| 924 | 29 | 51.8 | 424 | 2 | US-10-104-047-3194 | Sequence 3194, Ap |
| 925 | 29 | 51.8 | 427 | 2 | US-09-854-300-6 | Sequence 6, Appli |
| 926 | 29 | 51.8 | 428 | 2 | US-09-854-300-8 | Sequence 8, Appli |
| 927 | 29 | 51.8 | 429 | 2 | US-09-589-892B-16 | Sequence 16, Appl |
| 928 | 29 | 51.8 | 432 | 2 | US-09-583-110-4367 | Sequence 4367, Ap |
| 929 | 29 | 51.8 | 434 | 2 | US-09-107-433-3684 | Sequence 3684, Ap |
| 930 | 29 | 51.8 | 437 | 2 | US-09-350-841A-1584 | Sequence 1584, Ap |
| 931 | 29 | 51.8 | 438 | 2 | US-08-486-099-93 | Sequence 93, Appl |
| 932 | 29 | 51.8 | 438 | 2 | US-08-360-107A-103 | Sequence 103, App |
| 933 | 29 | 51.8 | 438 | 2 | US-08-484-223B-93 | Sequence 93, Appl |
| 934 | 29 | 51.8 | 438 | 2 | US-08-919-597-93 | Sequence 93, Appl |
| 935 | 29 | 51.8 | 438 | 2 | US-08-475-668A-93 | Sequence 93, Appl |
| 936 | 29 | 51.8 | 438 | 2 | US-08-485-551A-93 | Sequence 93, Appl |
| 937 | 29 | 51.8 | 438 | 2 | US-08-471-913A-93 | Sequence 93, Appl |
| 938 | 29 | 51.8 | 438 | 2 | US-08-485-264A-93 | Sequence 93, Appl |
| 939 | 29 | 51.8 | 438 | 2 | US-08-474-349A-93 | Sequence 93, Appl |
| 940 | 29 | 51.8 | 438 | 2 | US-08-255-208A-29 | Sequence 29, Appl |
| 941 | 29 | 51.8 | 438 | 2 | US-08-470-896-93 | Sequence 93, Appl |
| 942 | 29 | 51.8 | 438 | 2 | US-08-485-546A-93 | Sequence 93, Appl |
| 943 | 29 | 51.8 | 438 | 2 | US-09-248-796A-23919 | Sequence 23919, A |
| 944 | 29 | 51.8 | 438 | 2 | US-08-487-266A-93 | Sequence 93, Appl |
| 945 | 29 | 51.8 | 438 | 2 | US-08-484-741-93 | Sequence 93, Appl |
| 946 | 29 | 51.8 | 439 | 2 | US-09-829-631A-13 | Sequence 13, Appl |
| 947 | 29 | 51.8 | 440 | 2 | US-08-883-036A-2 | Sequence 2, Appli |
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| 950 | 29 | 51.8 | 460 | 2 | US-09-826-509-513 | Sequence 513, App |
| 951 | 29 | 51.8 | 468 | 1 | US-08-459-287-3 | Sequence 3, Appli |
| 952 | 29 | 51.8 | 468 | 2 | US-10-329-668-12 | Sequence 12, Appl |
| 953 | 29 | 51.8 | 478 | 2 | US-09-570-454-2 | Sequence 2, Appli |
| 954 | 29 | 51.8 | 478 | 2 | US-09-867-521-2 | Sequence 2, Appli |
| 955 | 29 | 51.8 | 479 | 1 | US-08-313-553-7 | Sequence 7, Appli |
| 956 | 29 | 51.8 | 479 | 2 | US-08-767-993-7 | Sequence 7, Appli |
| 957 | 29 | 51.8 | 492 | 2 | US-09-248-796A-14913 | Sequence 14913, A |
| 958 | 29 | 51.8 | 498 | 2 | US-10-104-047-2548 | Sequence 2548, Ap |
| 959 | 29 | 51.8 | 529 | 2 | US-09-699-295-324 | Sequence 324, App |
| 960 | 29 | 51.8 | 549 | 2 | US-10-104-047-3152 | Sequence 3152, Ap |
| 961 | 29 | 51.8 | 554 | 2 | US-08-180-371-2 | Sequence 2, Appli |
| 962 | 29 | 51.8 | 554 | 4 | PCT-US92-05707-2 | Sequence 2, Appli |
| 963 | 29 | 51.8 | 555 | 1 | US-08-453-702A-98 | Sequence 98, Appl |
| 964 | 29 | 51.8 | 567 | 2 | US-09-252-991A-28481 | Sequence 28481, A |
| 965 | 29 | 51.8 | 579 | 2 | US-09-949-016-10132 | Sequence 10132, A |
| 966 | 29 | 51.8 | 585 | 1 | US-08-153-799-14 | Sequence 14, Appl |
| 967 | 29 | 51.8 | 585 | 1 | US-08-448-196A-3 | Sequence 3, Appli |
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| 969 | 29 | 51.8 | 585 | 1 | US-08-702-572-2 | Sequence 2, Appli |
| 970 | 29 | 51.8 | 585 | 2 | US-08-769-746-2 | Sequence 2, Appli |
| 971 | 29 | 51.8 | 585 | 2 | US-09-833-118A-18 | Sequence 18, Appl |
| 972 | 29 | 51.8 | 585 | 2 | US-09-832-929A-18 | Sequence 18, Appl |
| 973 | 29 | 51.8 | 585 | 2 | US-09-833-111A-18 | Sequence 18, Appl |
| 974 | 29 | 51.8 | 593 | 2 | US-09-252-991A-32285 | Sequence 32285, A |
| 975 | 29 | 51.8 | 599 | 1 | US-08-222-619-2 | Sequence 2, Appli |
| 976 | 29 | 51.8 | 599 | 2 | US-08-221-767-24 | Sequence 24, Appl |

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| 977 | 29 | 51.8 | 599 | 4 | PCT-US95-04075-2 | Sequence 2, Appli |
| 978 | 29 | 51.8 | 605 | 2 | US-10-363-937-3 | Sequence 3, Appli |
| 979 | 29 | 51.8 | 609 | 1 | US-08-222-619-3 | Sequence 3, Appli |
| 980 | 29 | 51.8 | 609 | 1 | US-08-433-037-4 | Sequence 4, Appli |
| 981 | 29 | 51.8 | 609 | 2 | US-08-897-956A-2 | Sequence 2, Appli |
| 982 | 29 | 51.8 | 609 | 2 | US-09-976-594-977 | Sequence 977, App |
| 983 | 29 | 51.8 | 609 | 2 | US-09-919-039-370 | Sequence 370, App |
| 984 | 29 | 51.8 | 609 | 4 | PCT-US95-04075-3 | Sequence 3, Appli |
| 985 | 29 | 51.8 | 610 | 1 | US-08-365-470-3 | Sequence 3, Appli |
| 986 | 29 | 51.8 | 610 | 1 | US-08-797-689-2 | Sequence 2, Appli |
| 987 | 29 | 51.8 | 610 | 2 | US-09-209-668-19 | Sequence 19, Appl |
| 988 | 29 | 51.8 | 610 | 2 | US-09-009-490A-89 | Sequence 89, Appl |
| 989 | 29 | 51.8 | 610 | 2 | US-09-984-186-2 | Sequence 2, Appli |
| 990 | 29 | 51.8 | 610 | 2 | US-09-949-016-5942 | Sequence 5942, Ap |
| 991 | 29 | 51.8 | 610 | 2 | US-09-982-262C-90 | Sequence 90, Appl |
| 992 | 29 | 51.8 | 610 | 2 | US-09-533-427-3 | Sequence 3, Appli |
| 993 | 29 | 51.8 | 610 | 6 | 5217870-2 | Patent No. 5217870 |
| 994 | 29 | 51.8 | 615 | 2 | US-09-270-767-40547 | Sequence 40547, A |
| 995 | 29 | 51.8 | 615 | 2 | US-09-270-767-55763 | Sequence 55763, A |
| 996 | 29 | 51.8 | 616 | 2 | US-09-949-016-7054 | Sequence 7054, Ap |
| 997 | 29 | 51.8 | 620 | 2 | US-09-248-796A-15013 | Sequence 15013, A |
| 998 | 29 | 51.8 | 622 | 2 | US-09-949-016-11170 | Sequence 11170, A |
| 999 | 29 | 51.8 | 622 | 2 | US-09-303-518D-830 | Sequence 830, App |
| 1000 | 29 | 51.8 | 622 | 2 | US-09-303-518D-832 | Sequence 832, App |

ALIGNMENTS

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RESULT 1
US-10-365-908-16
; Sequence 16, Application US/10365908
; Patent No. 6797491
; GENERAL INFORMATION:
;  APPLICANT: Neefe, John R.
;  APPLICANT:  Boux, Leslie J.
;  APPLICANT:  Winnett, Mark T.
;  APPLICANT:  Goldstone, Stephen E.
;  APPLICANT:  Siegel, Marvin
;  TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
;  FILE REFERENCE: 12071-003001
;  CURRENT APPLICATION NUMBER: US/10/365,908
;  CURRENT FILING DATE:  2003-02-13
;  PRIOR APPLICATION NUMBER: US/09/891,823
;  PRIOR FILING DATE: 2001-10-19
;  PRIOR APPLICATION NUMBER: US 60/214,202
;  PRIOR FILING DATE: 2000-06-26
;  NUMBER OF SEQ ID NOS: 140
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 16
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papilloma virus
US-10-365-908-16

  Query Match             100.0%;  Score 56;  DB 2;  Length 9;
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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
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Db          1 CCKCDSTLR 9


RESULT 2
US-10-365-908-30
; Sequence 30, Application US/10365908
; Patent No. 6797491
; GENERAL INFORMATION:
;  APPLICANT: Neefe, John R.
;  APPLICANT:  Boux, Leslie J.
;  APPLICANT:  Winnett, Mark T.
;  APPLICANT:  Goldstone, Stephen E.
;  APPLICANT:  Siegel, Marvin
;  TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
;  FILE REFERENCE: 12071-003001
;  CURRENT APPLICATION NUMBER: US/10/365,908
;  CURRENT FILING DATE:  2003-02-13
;  PRIOR APPLICATION NUMBER: US/09/891,823
;  PRIOR FILING DATE: 2001-10-19
;  PRIOR APPLICATION NUMBER: US 60/214,202
;  PRIOR FILING DATE: 2000-06-26
;  NUMBER OF SEQ ID NOS: 140
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 30
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papilloma virus
US-10-365-908-30

  Query Match             100.0%;  Score 56;  DB 2;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.022;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
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Db          1 CCKCDSTLR 9


RESULT 3
US-08-075-541D-38
; Sequence 38, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  38:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  19 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
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US-08-075-541D-38

Query Match 100.0%; Score 56; DB 2; Length 19;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 5 CCKCDSTLR 13

RESULT 4
US-08-934-915-48
; Sequence 48, Application US/08934915
; Patent No. 5932412
; GENERAL INFORMATION:
; APPLICANT: DILLNER, JOAKIM
; APPLICANT: DILLNER, LENA
; APPLICANT: CHENG, HWEE-MING
; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
; TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
; TITLE OF INVENTION: DIAGNOSTIC PURPOSES
; NUMBER OF SEQUENCES: 193
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MASON & ASSOCIATES, P.A.
; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
; CITY: CLEARWATER
; STATE: FLORIDA
; COUNTRY: U.S.A.
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 3.0
; SOFTWARE: Microsoft Word 6.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/934,915
; FILING DATE: 22-SEP-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/949,836
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: LOUISE A. Foutch
; REGISTRATION NUMBER: 37,133
; REFERENCE/DOCKET NUMBER: 1946.6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 813-538-3800
; TELEFAX: 813-538-3820
; TELEX:
; INFORMATION FOR SEQ ID NO: 48:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-934-915-48

Query Match 100.0%; Score 56; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.041;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCKCDSTLR 9
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Db 12 CCKCDSTLR 20

RESULT 5
US-09-980-177A-74
; Sequence 74, Application US/09980177A
; Patent No. 6838084
; GENERAL INFORMATION:
; APPLICANT: Jochmus, Ingrid
; APPLICANT: Nieland, John
; TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
; TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
; TITLE OF INVENTION: Therapy
; FILE REFERENCE: 50125/036001
; CURRENT APPLICATION NUMBER: US/09/980,177A
; CURRENT FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: PCT/EP00/05006
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: DE 19925199.1
; PRIOR FILING DATE: 1999-06-01
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-980-177A-74

Query Match 100.0%; Score 56; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.041;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCKCDSTLR 9
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Db 3 CCKCDSTLR 11

RESULT 6
US-08-075-541D-47
; Sequence 47, Application US/08075541D
; Patent No. 6183745
; GENERAL INFORMATION:
; APPLICANT: TINDLE, ROBERT
; APPLICANT: FERNANDO, GERMAIN
; APPLICANT: FRAZER, IAN
; TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
; TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
; STREET: 1601 MARKET STREET, 36TH FLOOR
; CITY: PHILADELPHIA
; STATE: PENNSYLVANIA
; COUNTRY: USA
; ZIP: 19103-2398
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/075,541D
; FILING DATE: 10-JUN-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: AU pk 3876
; FILING DATE: 12-DEC-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: pct/au91/00575
; FILING DATE: 12-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: NADEL, ALAN S
; REGISTRATION NUMBER: 27,363
; REFERENCE/DOCKET NUMBER: 8795-4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-567-2020
; TELEFAX: 215-567-2991
; INFORMATION FOR SEQ ID NO: 47:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 25 amino acids
; TYPE: amino acid

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;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-47

  Query Match             100.0%;  Score 56;  DB 2;  Length 25;
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Qy          1 CCKCDSTLR 9
              |||||||||
Db          9 CCKCDSTLR 17


RESULT 7
US-08-934-915-52
; Sequence 52, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  52:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  30 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-52

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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         15 CCKCDSTLR 23


RESULT 8
US-08-934-915-53
; Sequence 53, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  53:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  30 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-53

  Query Match             100.0%;  Score 56;  DB 1;  Length 30;
  Best Local Similarity   100.0%;  Pred. No. 0.058;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db          1 CCKCDSTLR 9


RESULT 9
US-09-486-394-3
; Sequence 3, Application US/09486394
; Patent No. 6478749
; GENERAL INFORMATION:
;  APPLICANT: Hopfl, Reinhard
;  TITLE OF INVENTION: Diagnostic Kit for Skin Tests, and Method
;  FILE REFERENCE: 032929-001
;  CURRENT APPLICATION NUMBER: US/09/486,394
;  CURRENT FILING DATE:  2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/04773
;  PRIOR FILING DATE: 1998-07-30
;  PRIOR APPLICATION NUMBER: DE 197 37 409.3
;  PRIOR FILING DATE: 1997-08-27
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 30
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;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(30)
;   OTHER INFORMATION: E7 peptide.
US-09-486-394-3

  Query Match             100.0%;  Score 56;  DB 2;  Length 30;
  Best Local Similarity   100.0%;  Pred. No. 0.058;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         18 CCKCDSTLR 26


RESULT 10
US-09-501-097A-6
; Sequence 6, Application US/09501097A
; Patent No. 6734173
; GENERAL INFORMATION:
;  APPLICANT: Tzyy-Choou Wu
;  APPLICANT:  Chien-Fu Hung
;  TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
;  FILE REFERENCE: 2240-169349
;  CURRENT APPLICATION NUMBER: US/09/501,097A
;  CURRENT FILING DATE:  2000-02-09
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
;   LENGTH: 38
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-09-501-097A-6

  Query Match             100.0%;  Score 56;  DB 2;  Length 38;
  Best Local Similarity   100.0%;  Pred. No. 0.071;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         29 CCKCDSTLR 37


RESULT 11
US-08-406-248-6
; Sequence 6, Application US/08406248
; Patent No. 5736318
;  GENERAL INFORMATION:
;    APPLICANT:  Munger, Karl
;    APPLICANT:  Jones, D. Leanne
;    TITLE OF INVENTION:  METHOD AND KIT FOR EVALUATING
;    TITLE OF INVENTION:  TRANSFORMED CELLS
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Ann-Louise Kerner, Ph.D., Lappin & Kusmer
;      STREET:  200 State Street
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/406,248
;      FILING DATE:
;      CLASSIFICATION:  436
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  McDaniels, Patricia A.
;      REGISTRATION NUMBER:  33,194
;      REFERENCE/DOCKET NUMBER:  HAZ-011
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-330-1300
;      TELEFAX:  617-330-1311
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  98 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-406-248-6

  Query Match             100.0%;  Score 56;  DB 1;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 12
US-08-075-541D-42
; Sequence 42, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  42:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  98 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-42

  Query Match             100.0%;  Score 56;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
```

```
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 13
US-09-382-616A-1
; Sequence 1, Application US/09382616A
; Patent No. 6200746
; GENERAL INFORMATION:
;  APPLICANT:  Fisher, Christopher
;  APPLICANT:  He, Wanxia
;  TITLE OF INVENTION:  Methods to Identify Anti-Viral Agents
;  FILE REFERENCE:  28341/6216
;  CURRENT APPLICATION NUMBER: US/09/382,616A
;  CURRENT FILING DATE:  1999-08-25
;  PRIOR APPLICATION NUMBER:  09/382,616
;  PRIOR FILING DATE:  1999-08-25
;  NUMBER OF SEQ ID NOS:  43
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Papillomavirus sylvilagi
US-09-382-616A-1

  Query Match             100.0%;  Score 56;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 14
US-08-944-368A-4
; Sequence 4, Application US/08944368A
; Patent No. 6228368
;  GENERAL INFORMATION:
;    APPLICANT:  Gissman, et al.
;    TITLE OF INVENTION:  Papilloma Virus Capsomere Vaccine
;    TITLE OF INVENTION:  Formulations and Methods of Use
;    NUMBER OF SEQUENCES:  28
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray &
;      ADDRESSEE:  Borun
;      STREET:  233 South Wacker Drive, 6300 Sears Tower
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  United States of America
;      ZIP:  60606-6402
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/944,368A
;      FILING DATE:
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Williams Jr., Joseph A.
;      REGISTRATION NUMBER:  38,659
;      REFERENCE/DOCKET NUMBER:  27013/34028
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  312-474-6300
;      TELEFAX:  312-474-0448
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  98 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-944-368A-4

  Query Match             100.0%;  Score 56;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 15
US-09-820-764-4
; Sequence 4, Application US/09820764
; Patent No. 6352696
;  GENERAL INFORMATION:
;       APPLICANT: BURGER, Alexander
;                  HALLEK, Michael
;       TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                           FORMULATIONS AND METHODS OF USE
;       NUMBER OF SEQUENCES: 28
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: FOLEY & LARDNER
;            STREET: 3000 K Street, N.W.
;            CITY: Washington
;            STATE: D.C.
;            COUNTRY: U.S.A.
;            ZIP: 20007-5109
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.30
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/820,764
;            FILING DATE: 30-Mar-2001
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: US 09/026,896
;            FILING DATE: 20-FEB-1998
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Sandercock, Colin G.
;            REGISTRATION NUMBER: 31,298
;            REFERENCE/DOCKET NUMBER: 37067/102
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (202) 672-5300
;            TELEFAX: (202) 672-5399
;  INFORMATION FOR SEQ ID NO: 4:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 98 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-764-4

  Query Match             100.0%;  Score 56;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 16
US-09-613-303-8
; Sequence 8, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
```

```
;  APPLICANT:  Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION:  INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE:  12071/002001
;  CURRENT APPLICATION NUMBER: US/09/613,303
;  CURRENT FILING DATE:  2000-07-10
;  PRIOR APPLICATION NUMBER:  US 60/143,757
;  PRIOR FILING DATE:  1999-07-08
;  NUMBER OF SEQ ID NOS:  55
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-09-613-303-8

  Query Match             100.0%;  Score 56;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 17
US-09-566-420-19
; Sequence 19, Application US/09566420
; Patent No. 6500641
; GENERAL INFORMATION:
;  APPLICANT:  CHEN, SI-YI AND ZHAOYANG, YOU
;  TITLE OF INVENTION:  METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
;  TITLE OF INVENTION:  IMMUNE RESPONSE
;  FILE REFERENCE:  TBA
;  CURRENT APPLICATION NUMBER: US/09/566,420
;  CURRENT FILING DATE:  2000-05-05
;  PRIOR APPLICATION NUMBER:  60/132,752
;  PRIOR FILING DATE:  1999-05-06
;  PRIOR APPLICATION NUMBER:  60/132,750
;  PRIOR FILING DATE:  1999-05-06
;  NUMBER OF SEQ ID NOS:  19
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 19
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type E7
US-09-566-420-19

  Query Match             100.0%;  Score 56;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 18
US-09-986-118A-4
; Sequence 4, Application US/09986118A
; Patent No. 6562351
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                            FORMULATIONS AND METHODS OF USE
;        NUMBER OF SEQUENCES: 28
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: FOLEY & LARDNER
;             STREET: 3000 K Street, N.W.
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: U.S.A.
;             ZIP: 20007-5109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/986,118A
;             FILING DATE: 07-No. 6562351-2001
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US 09/026,896
;             FILING DATE: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Sandercock, Colin G.
;             REGISTRATION NUMBER: 31,298
;             REFERENCE/DOCKET NUMBER: 37067/102
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 672-5300
;             TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 98 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

  Query Match             100.0%;  Score 56;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 19
US-09-728-466-1
; Sequence 1, Application US/09728466
; Patent No. 6641994
; GENERAL INFORMATION:
;  APPLICANT:  Fisher, Christopher
;  APPLICANT:  He, Wanxia
;  TITLE OF INVENTION:  Methods to Identify Anti-Viral Agents
;  FILE REFERENCE:  28341/6216
;  CURRENT APPLICATION NUMBER: US/09/728,466
;  CURRENT FILING DATE:  2000-12-01
;  PRIOR APPLICATION NUMBER:  09/382,616
;  PRIOR FILING DATE:  1999-08-25
;  NUMBER OF SEQ ID NOS:  43
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Papillomavirus sylvilagi
US-09-728-466-1

  Query Match             100.0%;  Score 56;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 20
US-09-824-017-4
```

```
; Sequence 4, Application US/09824017
; Patent No. 6649167
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                            FORMULATIONS AND METHODS OF USE
;        NUMBER OF SEQUENCES: 28
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: FOLEY & LARDNER
;             STREET: 3000 K Street, N.W.
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: U.S.A.
;             ZIP: 20007-5109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/824,017
;             FILING DATE: 03-Apr-2001
;             CLASSIFICATION: 424
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 09/026,896
;             FILING DATE: 1998-02-20
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Sandercock, Colin G.
;             REGISTRATION NUMBER: 31,298
;             REFERENCE/DOCKET NUMBER: 37067/102
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 672-5300
;             TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 98 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-824-017-4

  Query Match             100.0%;  Score 56;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 21
US-10-267-311-8
; Sequence 8, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-8

  Query Match             100.0%;  Score 56;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 22
US-10-201-764-19
; Sequence 19, Application US/10201764
; Patent No. 6716623
; GENERAL INFORMATION:
;  APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
;  TITLE OF INVENTION:  IMMUNE RESPONSE
;  FILE REFERENCE: TBA
;  CURRENT APPLICATION NUMBER: US/10/201,764
;  CURRENT FILING DATE:  2002-07-22
;  PRIOR APPLICATION NUMBER: US/09/566,420
;  PRIOR FILING DATE: 2000-05-05
;  PRIOR APPLICATION NUMBER: 60/132,752
;  PRIOR FILING DATE: 1999-05-06
;  PRIOR APPLICATION NUMBER: 60/132,750
;  PRIOR FILING DATE: 1999-05-06
;  NUMBER OF SEQ ID NOS: 19
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type E7
US-10-201-764-19

  Query Match             100.0%;  Score 56;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 23
US-09-637-746-3
; Sequence 3, Application US/09637746
; Patent No. 6727079
; GENERAL INFORMATION:
;  APPLICANT: Thorgeirsson, Snorri S.
;  APPLICANT:  Woitach, Joseph T.
;  APPLICANT:  Zhang, Minghuang
;  TITLE OF INVENTION: cDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS PROTEIN
;  TITLE OF INVENTION:  PRODUCT
;  FILE REFERENCE: 11613.29USW1
;  CURRENT APPLICATION NUMBER: US/09/637,746
;  CURRENT FILING DATE:  2000-08-11
;  PRIOR APPLICATION NUMBER: PCT/US99/04142
;  PRIOR FILING DATE: 1999-02-25
;  PRIOR APPLICATION NUMBER: US 60/079,567
;  PRIOR FILING DATE: 1998-03-27
;  PRIOR APPLICATION NUMBER: US 60/075,922
;  PRIOR FILING DATE: 1998-02-25
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
```

```
US-09-637-746-3

  Query Match             100.0%;  Score 56;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 24
US-09-501-097A-7
; Sequence 7, Application US/09501097A
; Patent No. 6734173
; GENERAL INFORMATION:
;  APPLICANT: Tzyy-Choou Wu
;  APPLICANT:  Chien-Fu Hung
;  TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
;  FILE REFERENCE: 2240-169349
;  CURRENT APPLICATION NUMBER: US/09/501,097A
;  CURRENT FILING DATE:  2000-02-09
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-09-501-097A-7

  Query Match             100.0%;  Score 56;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 25
US-09-980-523A-12
; Sequence 12, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-12

  Query Match             100.0%;  Score 56;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 26
US-09-613-303-12
; Sequence 12, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
;  APPLICANT:  Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION:  INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE:  12071/002001
;  CURRENT APPLICATION NUMBER: US/09/613,303
;  CURRENT FILING DATE:  2000-07-10
;  PRIOR APPLICATION NUMBER:  US 60/143,757
;  PRIOR FILING DATE:  1999-07-08
;  NUMBER OF SEQ ID NOS:  55
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 12
;   LENGTH: 121
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-09-613-303-12

  Query Match             100.0%;  Score 56;  DB 2;  Length 121;
  Best Local Similarity   100.0%;  Pred. No. 0.19;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         81 CCKCDSTLR 89


RESULT 27
US-10-267-311-12
; Sequence 12, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
;   LENGTH: 121
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-12

  Query Match             100.0%;  Score 56;  DB 2;  Length 121;
  Best Local Similarity   100.0%;  Pred. No. 0.19;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         81 CCKCDSTLR 89


RESULT 28
US-08-860-165-12
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; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

  Query Match             100.0%;  Score 56;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.26;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        156 CCKCDSTLR 164


RESULT 29
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

  Query Match             100.0%;  Score 56;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.26;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         26 CCKCDSTLR 34


RESULT 30
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-12

  Query Match             100.0%;  Score 56;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.26;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        156 CCKCDSTLR 164


RESULT 31
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-14

  Query Match             100.0%;  Score 56;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.26;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         26 CCKCDSTLR 34


RESULT 32
US-09-462-993-2
; Sequence 2, Application US/09462993
; Patent No. 6884786
```

```
; GENERAL INFORMATION:
;  APPLICANT:  KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION:  ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE:  017753-122
;  CURRENT APPLICATION NUMBER: US/09/462,993
;  CURRENT FILING DATE:  2000-04-17
;  PRIOR APPLICATION NUMBER:  PCT/FR98/01576
;  PRIOR FILING DATE:  1998-07-17
;  PRIOR APPLICATION NUMBER:  FR 97/09152
;  PRIOR FILING DATE:  1997-07-18
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  PatentIn Ver. 2.2
; SEQ ID NO 2
;   LENGTH: 185
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Derivated from human papillomavirus, strain
;   OTHER INFORMATION: HPV-16, E7 fusion signals of the rabies
;   OTHER INFORMATION: glycoprotein, clone E7*TMR.
US-09-462-993-2

  Query Match             100.0%;  Score 56;  DB 2;  Length 185;
  Best Local Similarity   100.0%;  Pred. No. 0.28;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         77 CCKCDSTLR 85


RESULT 33
US-09-613-303-35
; Sequence 35, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
;  APPLICANT:  Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION:  INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE:  12071/002001
;  CURRENT APPLICATION NUMBER: US/09/613,303
;  CURRENT FILING DATE:  2000-07-10
;  PRIOR APPLICATION NUMBER:  US 60/143,757
;  PRIOR FILING DATE:  1999-07-08
;  NUMBER OF SEQ ID NOS:  55
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 35
;   LENGTH: 198
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-09-613-303-35

  Query Match             100.0%;  Score 56;  DB 2;  Length 198;
  Best Local Similarity   100.0%;  Pred. No. 0.29;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        158 CCKCDSTLR 166


RESULT 34
US-10-267-311-35
; Sequence 35, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 35
;   LENGTH: 198
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-35

  Query Match             100.0%;  Score 56;  DB 2;  Length 198;
  Best Local Similarity   100.0%;  Pred. No. 0.29;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        158 CCKCDSTLR 166


RESULT 35
US-09-485-885-1
; Sequence 1, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 1
;   LENGTH: 220
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-1

  Query Match             100.0%;  Score 56;  DB 2;  Length 220;
  Best Local Similarity   100.0%;  Pred. No. 0.32;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        171 CCKCDSTLR 179


RESULT 36
US-09-485-885-8
; Sequence 8, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
```

```
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 8
;   LENGTH: 220
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-8

  Query Match             100.0%;  Score 56;  DB 2;  Length 220;
  Best Local Similarity   100.0%;  Pred. No. 0.32;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        171 CCKCDSTLR 179


RESULT 37
US-09-485-885-12
; Sequence 12, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 12
;   LENGTH: 239
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-12

  Query Match             100.0%;  Score 56;  DB 2;  Length 239;
  Best Local Similarity   100.0%;  Pred. No. 0.35;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        190 CCKCDSTLR 198


RESULT 38
US-08-459-818-20
; Sequence 20, Application US/08459818
; Patent No. 5851795
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  27
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  FastSeq 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/459,818
;      FILING DATE:  02-JUN-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436.35US02
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  253 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-459-818-20

  Query Match             100.0%;  Score 56;  DB 1;  Length 253;
  Best Local Similarity   100.0%;  Pred. No. 0.36;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        213 CCKCDSTLR 221


RESULT 39
US-08-889-666-20
; Sequence 20, Application US/08889666
; Patent No. 5885579
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Kiener, Peter A.
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/889,666
;      FILING DATE:  08-JUL-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/375390
;      FILING DATE:  18-JAN-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
```

```
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-35US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  253 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-889-666-20

  Query Match           100.0%;  Score 56;  DB 1;  Length 253;
  Best Local Similarity  100.0%;  Pred. No. 0.36;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        213 CCKCDSTLR 221


RESULT 40
US-08-465-078-20
; Sequence 20, Application US/08465078
; Patent No. 5885796
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Kiener, Peter A.
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/465,078
;      FILING DATE:  05-JUN-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/375390
;      FILING DATE:  18-JAN-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-35US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  253 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-465-078-20

  Query Match           100.0%;  Score 56;  DB 1;  Length 253;
  Best Local Similarity  100.0%;  Pred. No. 0.36;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        213 CCKCDSTLR 221


RESULT 41
US-08-725-776-20
; Sequence 20, Application US/08725776
; Patent No. 5968510
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Kiener, Peter A.
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/725,776
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/375390
;      FILING DATE:  18-JAN-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-35US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  253 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-725-776-20

  Query Match           100.0%;  Score 56;  DB 1;  Length 253;
  Best Local Similarity  100.0%;  Pred. No. 0.36;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
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Db        213 CCKCDSTLR 221


RESULT 42
US-08-488-062-20
; Sequence 20, Application US/08488062
; Patent No. 5977318
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Kiener, Peter A.
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;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/488,062
;      FILING DATE:  07-JUN-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/375390
;      FILING DATE:  18-JAN-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-35US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  253 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-488-062-20

  Query Match             100.0%;  Score 56;  DB 1;  Length 253;
  Best Local Similarity   100.0%;  Pred. No. 0.36;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        213 CCKCDSTLR 221


RESULT 43
US-08-117-083-9
; Sequence 9, Application US/08117083
; Patent No. 5719054
;  GENERAL INFORMATION:
;    APPLICANT:  Boursnell, Michael E.
;    APPLICANT:  Inglis, Stephen C.
;    APPLICANT:  Munro, Alan J.
;    TITLE OF INVENTION:  Recombinant Virus Vectors Encoding Human
;    TITLE OF INVENTION:  Papilloma Virus Proteins
;    NUMBER OF SEQUENCES:  70
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Walter H. Dreger
;      STREET:  4 Embarcadero Center, Suite 3400
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/117,083
;      FILING DATE:  10-SEP-1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Dreger, Walter H.
;      REGISTRATION NUMBER:  24,190
;      REFERENCE/DOCKET NUMBER:  A-58783
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-781-1989
;      TELEFAX:  415-398-3249
;      TELEX:  910 277299
;  INFORMATION FOR SEQ ID NO:  9:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  263 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    FEATURE:
;      NAME/KEY:  Protein
;      LOCATION:  1..263
;      OTHER INFORMATION:  /note= "Xaa refers to stop codon in
;      OTHER INFORMATION:  the open reading frame."
US-08-117-083-9

  Query Match             100.0%;  Score 56;  DB 1;  Length 263;
  Best Local Similarity   100.0%;  Pred. No. 0.38;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        219 CCKCDSTLR 227


RESULT 44
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

  Query Match             100.0%;  Score 56;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.38;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        218 CCKCDSTLR 226


RESULT 45
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
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;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-10

  Query Match             100.0%;  Score 56;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.38;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        218 CCKCDSTLR 226


RESULT 46
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 56;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.38;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        218 CCKCDSTLR 226


RESULT 47
US-09-501-097A-25
; Sequence 25, Application US/09501097A
; Patent No. 6734173
; GENERAL INFORMATION:
;  APPLICANT: Tzyy-Choou Wu
;  APPLICANT:  Chien-Fu Hung
;  TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
;  FILE REFERENCE: 2240-169349
;  CURRENT APPLICATION NUMBER: US/09/501,097A
;  CURRENT FILING DATE:  2000-02-09
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 25
;   LENGTH: 287
;   TYPE: PRT
;   ORGANISM: Human papillomavirus/Mouse
US-09-501-097A-25

  Query Match             100.0%;  Score 56;  DB 2;  Length 287;
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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        247 CCKCDSTLR 255


RESULT 48
US-09-613-303-33
; Sequence 33, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
;  APPLICANT:  Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION:  INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE:  12071/002001
;  CURRENT APPLICATION NUMBER: US/09/613,303
;  CURRENT FILING DATE:  2000-07-10
;  PRIOR APPLICATION NUMBER:  US 60/143,757
;  PRIOR FILING DATE:  1999-07-08
;  NUMBER OF SEQ ID NOS:  55
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 33
;   LENGTH: 295
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-09-613-303-33

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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        255 CCKCDSTLR 263


RESULT 49
US-10-267-311-33
; Sequence 33, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 33
;   LENGTH: 295
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
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; OTHER INFORMATION: fusion sequence
US-10-267-311-33

Query Match 100.0%; Score 56; DB 2; Length 295;
Best Local Similarity 100.0%; Pred. No. 0.42;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCKCDSTLR 9
||||||||| 
Db 255 CCKCDSTLR 263

RESULT 50
US-09-613-303-25
; Sequence 25, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/09/613,303
; CURRENT FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 324
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-09-613-303-25

Query Match 100.0%; Score 56; DB 2; Length 324;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCKCDSTLR 9
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Db 284 CCKCDSTLR 292

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Job time : 24.7 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:29:07 ; Search time 56 Seconds
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Title: US-08-170-344-61
Perfect score: 56
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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_Main:*
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
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| 1 | 56 | 100.0 | 9 | 3 | US-09-891-823-16 | Sequence 16, Appl |
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| 3 | 56 | 100.0 | 9 | 5 | US-10-871-138-16 | Sequence 16, Appl |
| 4 | 56 | 100.0 | 10 | 3 | US-09-891-823-30 | Sequence 30, Appl |
| 5 | 56 | 100.0 | 10 | 4 | US-10-365-908-30 | Sequence 30, Appl |
| 6 | 56 | 100.0 | 10 | 5 | US-10-871-138-30 | Sequence 30, Appl |
| 7 | 56 | 100.0 | 15 | 4 | US-10-648-547-96 | Sequence 96, Appl |
| 8 | 56 | 100.0 | 15 | 4 | US-10-306-541-96 | Sequence 96, Appl |
| 9 | 56 | 100.0 | 20 | 4 | US-10-432-465-49 | Sequence 49, Appl |
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| 11 | 56 | 100.0 | 98 | 3 | US-09-728-466-1 | Sequence 1, Appli |
| 12 | 56 | 100.0 | 98 | 3 | US-09-820-765-4 | Sequence 4, Appli |
| 13 | 56 | 100.0 | 98 | 3 | US-09-824-017-4 | Sequence 4, Appli |
| 14 | 56 | 100.0 | 98 | 3 | US-09-986-118A-4 | Sequence 4, Appli |
| 15 | 56 | 100.0 | 98 | 4 | US-10-267-311-8 | Sequence 8, Appli |
| 16 | 56 | 100.0 | 98 | 4 | US-10-177-390-8 | Sequence 8, Appli |
| 17 | 56 | 100.0 | 98 | 4 | US-10-201-764-19 | Sequence 19, Appl |
| 18 | 56 | 100.0 | 98 | 4 | US-10-392-113-29 | Sequence 29, Appl |
| 19 | 56 | 100.0 | 98 | 4 | US-10-654-129-4 | Sequence 4, Appli |
| 20 | 56 | 100.0 | 98 | 4 | US-10-681-410-19 | Sequence 19, Appl |
| 21 | 56 | 100.0 | 98 | 4 | US-10-772-988-3 | Sequence 3, Appli |
| 22 | 56 | 100.0 | 98 | 4 | US-10-479-541-5 | Sequence 5, Appli |
| 23 | 56 | 100.0 | 98 | 5 | US-10-042-526A-4 | Sequence 4, Appli |
| 24 | 56 | 100.0 | 98 | 5 | US-10-657-399-1 | Sequence 1, Appli |
| 25 | 56 | 100.0 | 98 | 5 | US-10-858-384-12 | Sequence 12, Appl |
| 26 | 56 | 100.0 | 98 | 5 | US-10-484-063-26 | Sequence 26, Appl |
| 27 | 56 | 100.0 | 98 | 5 | US-10-343-448-5 | Sequence 5, Appli |
| 28 | 56 | 100.0 | 98 | 5 | US-10-679-956-8 | Sequence 8, Appli |
| 29 | 56 | 100.0 | 98 | 5 | US-10-367-057-17 | Sequence 17, Appl |
| 30 | 56 | 100.0 | 98 | 6 | US-11-077-939-5 | Sequence 5, Appli |
| 31 | 56 | 100.0 | 99 | 4 | US-10-115-440-7 | Sequence 7, Appli |
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| 33 | 56 | 100.0 | 121 | 4 | US-10-267-311-12 | Sequence 12, Appl |
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| 35 | 56 | 100.0 | 185 | 6 | US-11-072-288-2 | Sequence 2, Appli |
| 36 | 56 | 100.0 | 198 | 4 | US-10-267-311-35 | Sequence 35, Appl |
| 37 | 56 | 100.0 | 198 | 5 | US-10-679-956-35 | Sequence 35, Appl |
| 38 | 56 | 100.0 | 220 | 4 | US-10-000-903-1 | Sequence 1, Appli |
| 39 | 56 | 100.0 | 220 | 4 | US-10-000-903-8 | Sequence 8, Appli |
| 40 | 56 | 100.0 | 220 | 5 | US-10-899-771-1 | Sequence 1, Appli |
| 41 | 56 | 100.0 | 220 | 5 | US-10-899-771-8 | Sequence 8, Appli |
| 42 | 56 | 100.0 | 239 | 4 | US-10-000-903-12 | Sequence 12, Appl |
| 43 | 56 | 100.0 | 239 | 5 | US-10-899-771-12 | Sequence 12, Appl |
| 44 | 56 | 100.0 | 266 | 3 | US-09-367-309A-1 | Sequence 1, Appli |
| 45 | 56 | 100.0 | 289 | 4 | US-10-115-440-5 | Sequence 5, Appli |
| 46 | 56 | 100.0 | 295 | 4 | US-10-267-311-33 | Sequence 33, Appl |
| 47 | 56 | 100.0 | 295 | 5 | US-10-679-956-33 | Sequence 33, Appl |
| 48 | 56 | 100.0 | 324 | 4 | US-10-267-311-25 | Sequence 25, Appl |
| 49 | 56 | 100.0 | 324 | 5 | US-10-679-956-25 | Sequence 25, Appl |
| 50 | 56 | 100.0 | 334 | 4 | US-10-472-724-10 | Sequence 10, Appl |
| 51 | 56 | 100.0 | 371 | 4 | US-10-000-903-6 | Sequence 6, Appli |
| 52 | 56 | 100.0 | 371 | 5 | US-10-899-771-6 | Sequence 6, Appli |
| 53 | 56 | 100.0 | 390 | 4 | US-10-000-903-14 | Sequence 14, Appl |
| 54 | 56 | 100.0 | 390 | 5 | US-10-899-771-14 | Sequence 14, Appl |
| 55 | 56 | 100.0 | 421 | 4 | US-10-296-770-7 | Sequence 7, Appli |
| 56 | 56 | 100.0 | 493 | 4 | US-10-267-311-19 | Sequence 19, Appl |
| 57 | 56 | 100.0 | 493 | 5 | US-10-679-956-19 | Sequence 19, Appl |
| 58 | 56 | 100.0 | 639 | 4 | US-10-267-311-17 | Sequence 17, Appl |
| 59 | 56 | 100.0 | 639 | 5 | US-10-679-956-17 | Sequence 17, Appl |
| 60 | 56 | 100.0 | 641 | 4 | US-10-267-311-51 | Sequence 51, Appl |
| 61 | 56 | 100.0 | 641 | 5 | US-10-679-956-51 | Sequence 51, Appl |
| 62 | 56 | 100.0 | 647 | 4 | US-10-267-311-53 | Sequence 53, Appl |
| 63 | 56 | 100.0 | 647 | 5 | US-10-679-956-53 | Sequence 53, Appl |
| 64 | 56 | 100.0 | 648 | 4 | US-10-267-311-29 | Sequence 29, Appl |
| 65 | 56 | 100.0 | 648 | 5 | US-10-679-956-29 | Sequence 29, Appl |
| 66 | 56 | 100.0 | 711 | 4 | US-10-267-311-41 | Sequence 41, Appl |
| 67 | 56 | 100.0 | 711 | 5 | US-10-679-956-41 | Sequence 41, Appl |
| 68 | 56 | 100.0 | 724 | 4 | US-10-267-311-45 | Sequence 45, Appl |
| 69 | 56 | 100.0 | 724 | 5 | US-10-679-956-45 | Sequence 45, Appl |
| 70 | 56 | 100.0 | 805 | 4 | US-10-367-095-9 | Sequence 9, Appli |
| 71 | 56 | 100.0 | 805 | 4 | US-10-368-046-9 | Sequence 9, Appli |
| 72 | 56 | 100.0 | 805 | 4 | US-10-367-367-9 | Sequence 9, Appli |
| 73 | 56 | 100.0 | 805 | 5 | US-10-918-337-9 | Sequence 9, Appli |
| 74 | 51 | 91.1 | 8 | 4 | US-10-648-547-59 | Sequence 59, Appl |
| 75 | 51 | 91.1 | 8 | 4 | US-10-306-541-59 | Sequence 59, Appl |
| 76 | 51 | 91.1 | 9 | 4 | US-10-648-547-44 | Sequence 44, Appl |
| 77 | 51 | 91.1 | 9 | 4 | US-10-306-541-44 | Sequence 44, Appl |
| 78 | 51 | 91.1 | 10 | 3 | US-09-891-823-8 | Sequence 8, Appli |
| 79 | 51 | 91.1 | 10 | 4 | US-10-365-908-8 | Sequence 8, Appli |
| 80 | 51 | 91.1 | 10 | 4 | US-10-648-547-46 | Sequence 46, Appl |
| 81 | 51 | 91.1 | 10 | 4 | US-10-306-541-46 | Sequence 46, Appl |
| 82 | 51 | 91.1 | 10 | 5 | US-10-871-138-8 | Sequence 8, Appli |
| 83 | 51 | 91.1 | 15 | 4 | US-10-648-547-63 | Sequence 63, Appl |
| 84 | 51 | 91.1 | 15 | 4 | US-10-306-541-63 | Sequence 63, Appl |
| 85 | 51 | 91.1 | 21 | 4 | US-10-648-547-107 | Sequence 107, App |
| 86 | 51 | 91.1 | 21 | 4 | US-10-306-541-107 | Sequence 107, App |
| 87 | 47 | 83.9 | 9 | 3 | US-09-891-823-44 | Sequence 44, Appl |
| 88 | 47 | 83.9 | 9 | 4 | US-10-365-908-44 | Sequence 44, Appl |
| 89 | 47 | 83.9 | 9 | 5 | US-10-871-138-44 | Sequence 44, Appl |
| 90 | 47 | 83.9 | 10 | 4 | US-10-648-547-47 | Sequence 47, Appl |
| 91 | 47 | 83.9 | 10 | 4 | US-10-306-541-47 | Sequence 47, Appl |
| 92 | 47 | 83.9 | 15 | 4 | US-10-648-547-67 | Sequence 67, Appl |
| 93 | 47 | 83.9 | 15 | 4 | US-10-306-541-67 | Sequence 67, Appl |
| 94 | 47 | 83.9 | 20 | 4 | US-10-432-465-48 | Sequence 48, Appl |
| 95 | 47 | 83.9 | 20 | 5 | US-10-890-526-73 | Sequence 73, Appl |
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| 97 | 42 | 75.0 | 9 | 4 | US-10-306-541-51 | Sequence 51, Appl |
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| 99 | 42 | 75.0 | 10 | 4 | US-10-306-541-55 | Sequence 55, Appl |
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| 106 | 42 | 75.0 | 1147 | 4 | US-10-841-139-3 | Sequence 3, Appli |
| 107 | 42 | 75.0 | 1153 | 4 | US-10-603-725-16 | Sequence 16, Appl |
| 108 | 42 | 75.0 | 1155 | 4 | US-10-603-725-24 | Sequence 24, Appl |
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| 110 | 42 | 75.0 | 1165 | 4 | US-10-841-139-2 | Sequence 2, Appli |
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| 112 | 42 | 75.0 | 1170 | 4 | US-10-603-725-14 | Sequence 14, Appl |
| 113 | 42 | 75.0 | 1172 | 3 | US-09-919-172-16 | Sequence 16, Appl |
| 114 | 42 | 75.0 | 1172 | 3 | US-09-974-298-56 | Sequence 56, Appl |
| 115 | 42 | 75.0 | 1172 | 4 | US-10-299-058-10 | Sequence 10, Appl |
| 116 | 42 | 75.0 | 1172 | 4 | US-10-295-027-320 | Sequence 320, App |
| 117 | 42 | 75.0 | 1172 | 4 | US-10-262-839-26 | Sequence 26, Appl |
| 118 | 42 | 75.0 | 1172 | 5 | US-10-752-986-16 | Sequence 16, Appl |
| 119 | 42 | 75.0 | 1172 | 5 | US-10-756-149-4906 | Sequence 4906, Ap |
| 120 | 42 | 75.0 | 1174 | 4 | US-10-603-725-22 | Sequence 22, Appl |
| 121 | 42 | 75.0 | 1186 | 4 | US-10-603-725-18 | Sequence 18, Appl |
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| 123 | 41 | 73.2 | 9 | 4 | US-10-365-908-66 | Sequence 66, Appl |
| 124 | 41 | 73.2 | 9 | 5 | US-10-871-138-66 | Sequence 66, Appl |
| 125 | 41 | 73.2 | 10 | 3 | US-09-891-823-84 | Sequence 84, Appl |
| 126 | 41 | 73.2 | 10 | 4 | US-10-365-908-84 | Sequence 84, Appl |
| 127 | 41 | 73.2 | 10 | 5 | US-10-871-138-84 | Sequence 84, Appl |
| 128 | 41 | 73.2 | 98 | 5 | US-10-367-057-12 | Sequence 12, Appl |
| 129 | 41 | 73.2 | 114 | 4 | US-10-425-115-356946 | Sequence 356946, |
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| 133 | 39 | 69.6 | 348 | 5 | US-10-826-081-21 | Sequence 21, Appl |
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| 137 | 39 | 69.6 | 431 | 5 | US-10-680-287A-669 | Sequence 669, App |
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| 143 | 39 | 69.6 | 547 | 3 | US-09-779-307-13 | Sequence 13, Appl |
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| 151 | 38 | 67.9 | 15 | 4 | US-10-306-541-93 | Sequence 93, Appl |
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| 157 | 38 | 67.9 | 20 | 4 | US-10-432-465-111 | Sequence 111, App |
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| 165 | 38 | 67.9 | 171 | 4 | US-10-451-467A-414 | Sequence 414, App |
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| 189 | 36 | 64.3 | 9 | 4 | US-10-365-908-138 | Sequence 138, App |
| 190 | 36 | 64.3 | 9 | 5 | US-10-871-138-138 | Sequence 138, App |
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| 192 | 36 | 64.3 | 14 | 5 | US-10-751-845-155 | Sequence 155, App |
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| 228 | 36 | 64.3 | 227 | 5 | US-10-899-771-16 | Sequence 16, Appl |
| 229 | 36 | 64.3 | 227 | 5 | US-10-899-771-19 | Sequence 19, Appl |
| 230 | 36 | 64.3 | 236 | 5 | US-10-751-845-157 | Sequence 157, App |
| 231 | 36 | 64.3 | 237 | 5 | US-10-751-845-158 | Sequence 158, App |
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| 499 | 33 | 58.9 | 201 | 6 | US-11-088-999-5 | Sequence 5, Appli |
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| 599 | 33 | 58.9 | 775 | 5 | US-10-631-467-629 | Sequence 629, App |
| 600 | 33 | 58.9 | 775 | 6 | US-11-088-999-32 | Sequence 32, Appl |
| 601 | 33 | 58.9 | 783 | 4 | US-10-425-115-256188 | Sequence 256188, |
| 602 | 33 | 58.9 | 786 | 4 | US-10-437-963-103927 | Sequence 103927, |
| 603 | 33 | 58.9 | 788 | 4 | US-10-276-774-2299 | Sequence 2299, Ap |
| 604 | 33 | 58.9 | 794 | 4 | US-10-304-095-8 | Sequence 8, Appli |
| 605 | 33 | 58.9 | 795 | 3 | US-09-921-259-6 | Sequence 6, Appli |
| 606 | 33 | 58.9 | 795 | 4 | US-10-425-115-315839 | Sequence 315839, |
| 607 | 33 | 58.9 | 807 | 5 | US-10-473-127-1749 | Sequence 1749, Ap |
| 608 | 33 | 58.9 | 807 | 5 | US-10-473-127-1751 | Sequence 1751, Ap |
| 609 | 33 | 58.9 | 824 | 3 | US-09-727-169-2 | Sequence 2, Appli |
| 610 | 33 | 58.9 | 824 | 3 | US-09-726-968-2 | Sequence 2, Appli |
| 611 | 33 | 58.9 | 824 | 4 | US-10-281-478-1 | Sequence 1, Appli |
| 612 | 33 | 58.9 | 824 | 4 | US-10-423-729-2 | Sequence 2, Appli |
| 613 | 33 | 58.9 | 824 | 4 | US-10-295-027-354 | Sequence 354, App |
| 614 | 33 | 58.9 | 824 | 5 | US-10-473-127-1745 | Sequence 1745, Ap |
| 615 | 33 | 58.9 | 824 | 5 | US-10-473-127-1746 | Sequence 1746, Ap |
| 616 | 33 | 58.9 | 824 | 5 | US-10-473-127-1747 | Sequence 1747, Ap |
| 617 | 33 | 58.9 | 824 | 5 | US-10-473-127-1748 | Sequence 1748, Ap |
| 618 | 33 | 58.9 | 824 | 5 | US-10-473-127-1750 | Sequence 1750, Ap |
| 619 | 33 | 58.9 | 824 | 5 | US-10-473-127-1752 | Sequence 1752, Ap |
| 620 | 33 | 58.9 | 824 | 5 | US-10-473-127-1753 | Sequence 1753, Ap |
| 621 | 33 | 58.9 | 824 | 5 | US-10-872-645-21 | Sequence 21, Appl |
| 622 | 33 | 58.9 | 824 | 5 | US-10-756-149-4851 | Sequence 4851, Ap |
| 623 | 33 | 58.9 | 828 | 4 | US-10-156-761-8468 | Sequence 8468, Ap |
| 624 | 33 | 58.9 | 847 | 4 | US-10-437-963-128823 | Sequence 128823, |
| 625 | 33 | 58.9 | 873 | 5 | US-10-481-032A-112 | Sequence 112, App |
| 626 | 33 | 58.9 | 882 | 5 | US-10-450-763-60360 | Sequence 60360, A |
| 627 | 33 | 58.9 | 944 | 5 | US-10-732-923-1039 | Sequence 1039, Ap |
| 628 | 33 | 58.9 | 974 | 4 | US-10-437-963-199488 | Sequence 199488, |
| 629 | 33 | 58.9 | 1007 | 4 | US-10-369-493-22375 | Sequence 22375, A |
| 630 | 33 | 58.9 | 1009 | 4 | US-10-369-493-1687 | Sequence 1687, Ap |
| 631 | 33 | 58.9 | 1084 | 4 | US-10-024-623-23 | Sequence 23, Appl |
| 632 | 33 | 58.9 | 1084 | 4 | US-10-154-419-73 | Sequence 73, Appl |
| 633 | 33 | 58.9 | 1084 | 4 | US-10-146-733-68 | Sequence 68, Appl |
| 634 | 33 | 58.9 | 1095 | 4 | US-10-024-623-26 | Sequence 26, Appl |
| 635 | 33 | 58.9 | 1095 | 4 | US-10-154-419-76 | Sequence 76, Appl |
| 636 | 33 | 58.9 | 1095 | 4 | US-10-146-733-71 | Sequence 71, Appl |
| 637 | 33 | 58.9 | 1668 | 4 | US-10-087-192-522 | Sequence 522, App |
| 638 | 33 | 58.9 | 1679 | 6 | US-11-097-143-8286 | Sequence 8286, Ap |
| 639 | 33 | 58.9 | 1679 | 6 | US-11-097-143-8298 | Sequence 8298, Ap |
| 640 | 33 | 58.9 | 2184 | 4 | US-10-304-095-6 | Sequence 6, Appli |
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| 642 | 33 | 58.9 | 3494 | 5 | US-10-473-127-703 | Sequence 703, App |
| 643 | 33 | 58.9 | 3623 | 4 | US-10-741-601-335 | Sequence 335, App |
| 644 | 33 | 58.9 | 3623 | 5 | US-10-473-127-698 | Sequence 698, App |
| 645 | 33 | 58.9 | 3623 | 5 | US-10-473-127-701 | Sequence 701, App |
| 646 | 33 | 58.9 | 3623 | 5 | US-10-473-127-702 | Sequence 702, App |
| 647 | 33 | 58.9 | 3623 | 5 | US-10-741-600-1012 | Sequence 1012, Ap |
| 648 | 33 | 58.9 | 3631 | 5 | US-10-450-763-58636 | Sequence 58636, A |
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| 654 | 32 | 57.1 | 6 | 4 | US-10-648-547-104 | Sequence 104, App |
| 655 | 32 | 57.1 | 6 | 4 | US-10-306-541-104 | Sequence 104, App |
| 656 | 32 | 57.1 | 9 | 3 | US-09-891-823-97 | Sequence 97, Appl |
| 657 | 32 | 57.1 | 9 | 4 | US-10-365-908-97 | Sequence 97, Appl |
| 658 | 32 | 57.1 | 9 | 4 | US-10-648-547-45 | Sequence 45, Appl |
| 659 | 32 | 57.1 | 9 | 4 | US-10-306-541-45 | Sequence 45, Appl |
| 660 | 32 | 57.1 | 9 | 5 | US-10-871-138-97 | Sequence 97, Appl |
| 661 | 32 | 57.1 | 10 | 4 | US-10-648-547-108 | Sequence 108, App |
| 662 | 32 | 57.1 | 10 | 4 | US-10-306-541-108 | Sequence 108, App |
| 663 | 32 | 57.1 | 14 | 4 | US-10-651-563-85 | Sequence 85, Appl |
| 664 | 32 | 57.1 | 22 | 4 | US-10-794-929-50 | Sequence 50, Appl |
| 665 | 32 | 57.1 | 26 | 5 | US-10-492-794-71 | Sequence 71, Appl |
| 666 | 32 | 57.1 | 30 | 4 | US-10-072-602B-60 | Sequence 60, Appl |
| 667 | 32 | 57.1 | 30 | 4 | US-10-139-272-22 | Sequence 22, Appl |
| 668 | 32 | 57.1 | 30 | 6 | US-11-097-315-60 | Sequence 60, Appl |
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| 677 | 32 | 57.1 | 49 | 4 | US-10-424-599-269148 | Sequence 269148, |
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| 679 | 32 | 57.1 | 50 | 4 | US-10-437-963-150356 | Sequence 150356, |
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| 681 | 32 | 57.1 | 51 | 4 | US-10-023-896-95 | Sequence 95, Appl |
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| 683 | 32 | 57.1 | 51 | 6 | US-11-122-117-77 | Sequence 77, Appl |
| 684 | 32 | 57.1 | 51 | 6 | US-11-122-117-95 | Sequence 95, Appl |

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| 748 | 32 | 57.1 | 90 | 4 | US-10-424-599-159795 | Sequence 159795, |
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| 753 | 32 | 57.1 | 95 | 4 | US-10-269-695-253 | Sequence 253, App |
| 754 | 32 | 57.1 | 95 | 4 | US-10-410-998-250 | Sequence 250, App |
| 755 | 32 | 57.1 | 95 | 4 | US-10-410-998-253 | Sequence 253, App |
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| 774 | 32 | 57.1 | 118 | 4 | US-10-767-701-60908 | Sequence 60908, A |
| 775 | 32 | 57.1 | 119 | 4 | US-10-425-115-365094 | Sequence 365094, |
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| 779 | 32 | 57.1 | 132 | 4 | US-10-425-114-62248 | Sequence 62248, A |
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| 793 | 32 | 57.1 | 151 | 4 | US-10-425-115-350208 | Sequence 350208, |
| 794 | 32 | 57.1 | 153 | 4 | US-10-424-599-164346 | Sequence 164346, |
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| 796 | 32 | 57.1 | 154 | 4 | US-10-437-963-170429 | Sequence 170429, |
| 797 | 32 | 57.1 | 155 | 4 | US-10-094-749-2586 | Sequence 2586, Ap |
| 798 | 32 | 57.1 | 156 | 4 | US-10-424-599-268677 | Sequence 268677, |
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| 801 | 32 | 57.1 | 160 | 4 | US-10-437-963-139506 | Sequence 139506, |
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| 835 | 32 | 57.1 | 250 | 4 | US-10-424-599-172756 | Sequence 172756, |
| 836 | 32 | 57.1 | 250 | 4 | US-10-424-599-222021 | Sequence 222021, |
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| 842 | 32 | 57.1 | 264 | 4 | US-10-225-066A-410 | Sequence 410, App |
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| 844 | 32 | 57.1 | 264 | 5 | US-10-225-066A-410 | Sequence 410, App |
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| 847 | 32 | 57.1 | 278 | 6 | US-11-097-143-33189 | Sequence 33189, A |
| 848 | 32 | 57.1 | 283 | 4 | US-10-282-122A-66287 | Sequence 66287, A |
| 849 | 32 | 57.1 | 283 | 4 | US-10-377-139-2 | Sequence 2, Appli |
| 850 | 32 | 57.1 | 285 | 4 | US-10-424-599-239252 | Sequence 239252, |
| 851 | 32 | 57.1 | 285 | 4 | US-10-425-114-55753 | Sequence 55753, A |
| 852 | 32 | 57.1 | 287 | 4 | US-10-425-115-198897 | Sequence 198897, |
| 853 | 32 | 57.1 | 288 | 5 | US-10-732-923-18892 | Sequence 18892, A |
| 854 | 32 | 57.1 | 290 | 4 | US-10-425-114-50863 | Sequence 50863, A |
| 855 | 32 | 57.1 | 292 | 4 | US-10-767-701-45993 | Sequence 45993, A |
| 856 | 32 | 57.1 | 292 | 5 | US-10-723-860-954 | Sequence 954, App |
| 857 | 32 | 57.1 | 295 | 4 | US-10-017-161-2032 | Sequence 2032, Ap |
| 858 | 32 | 57.1 | 295 | 4 | US-10-292-798-1678 | Sequence 1678, Ap |
| 859 | 32 | 57.1 | 295 | 4 | US-10-424-599-250857 | Sequence 250857, |
| 860 | 32 | 57.1 | 296 | 4 | US-10-108-260A-4254 | Sequence 4254, Ap |
| 861 | 32 | 57.1 | 296 | 6 | US-11-097-143-16983 | Sequence 16983, A |
| 862 | 32 | 57.1 | 303 | 4 | US-10-437-963-167901 | Sequence 167901, |
| 863 | 32 | 57.1 | 304 | 4 | US-10-424-599-252300 | Sequence 252300, |
| 864 | 32 | 57.1 | 305 | 3 | US-09-771-161A-143 | Sequence 143, App |
| 865 | 32 | 57.1 | 307 | 4 | US-10-650-249-2 | Sequence 2, Appli |
| 866 | 32 | 57.1 | 308 | 4 | US-10-437-963-196668 | Sequence 196668, |
| 867 | 32 | 57.1 | 310 | 4 | US-10-424-599-281586 | Sequence 281586, |
| 868 | 32 | 57.1 | 313 | 4 | US-10-425-115-325543 | Sequence 325543, |
| 869 | 32 | 57.1 | 318 | 4 | US-10-437-963-151568 | Sequence 151568, |
| 870 | 32 | 57.1 | 320 | 4 | US-10-425-114-38271 | Sequence 38271, A |
| 871 | 32 | 57.1 | 321 | 4 | US-10-104-047-2235 | Sequence 2235, Ap |
| 872 | 32 | 57.1 | 321 | 4 | US-10-425-114-45887 | Sequence 45887, A |
| 873 | 32 | 57.1 | 326 | 6 | US-11-097-143-13119 | Sequence 13119, A |
| 874 | 32 | 57.1 | 331 | 4 | US-10-282-122A-49812 | Sequence 49812, A |
| 875 | 32 | 57.1 | 332 | 6 | US-11-097-143-34707 | Sequence 34707, A |
| 876 | 32 | 57.1 | 333 | 4 | US-10-425-114-57014 | Sequence 57014, A |
| 877 | 32 | 57.1 | 338 | 4 | US-10-425-115-343613 | Sequence 343613, |
| 878 | 32 | 57.1 | 349 | 4 | US-10-425-114-54927 | Sequence 54927, A |
| 879 | 32 | 57.1 | 351 | 4 | US-10-112-944-906 | Sequence 906, App |
| 880 | 32 | 57.1 | 351 | 5 | US-10-450-763-54057 | Sequence 54057, A |
| 881 | 32 | 57.1 | 352 | 4 | US-10-259-165-216 | Sequence 216, App |
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| 883 | 32 | 57.1 | 354 | 5 | US-10-732-923-15578 | Sequence 15578, A |
| 884 | 32 | 57.1 | 355 | 5 | US-10-732-923-15574 | Sequence 15574, A |
| 885 | 32 | 57.1 | 362 | 3 | US-09-993-844-8 | Sequence 8, Appli |
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| 887 | 32 | 57.1 | 362 | 5 | US-10-901-772-65 | Sequence 65, Appl |
| 888 | 32 | 57.1 | 362 | 6 | US-11-026-435-8 | Sequence 8, Appli |
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| 890 | 32 | 57.1 | 368 | 4 | US-10-424-599-207464 | Sequence 207464, |
| 891 | 32 | 57.1 | 369 | 5 | US-10-450-763-36743 | Sequence 36743, A |
| 892 | 32 | 57.1 | 370 | 4 | US-10-437-963-196673 | Sequence 196673, |
| 893 | 32 | 57.1 | 371 | 4 | US-10-424-599-283868 | Sequence 283868, |
| 894 | 32 | 57.1 | 378 | 4 | US-10-437-963-138606 | Sequence 138606, |
| 895 | 32 | 57.1 | 382 | 3 | US-09-969-711-2 | Sequence 2, Appli |
| 896 | 32 | 57.1 | 382 | 4 | US-10-087-192-783 | Sequence 783, App |
| 897 | 32 | 57.1 | 382 | 6 | US-11-100-593-7 | Sequence 7, Appli |
| 898 | 32 | 57.1 | 383 | 4 | US-10-425-115-205283 | Sequence 205283, |
| 899 | 32 | 57.1 | 383 | 6 | US-11-100-593-8 | Sequence 8, Appli |
| 900 | 32 | 57.1 | 385 | 5 | US-10-745-237-124 | Sequence 124, App |
| 901 | 32 | 57.1 | 390 | 4 | US-10-060-902-22 | Sequence 22, Appl |
| 902 | 32 | 57.1 | 390 | 4 | US-10-060-902-24 | Sequence 24, Appl |
| 903 | 32 | 57.1 | 390 | 4 | US-10-354-247-22 | Sequence 22, Appl |
| 904 | 32 | 57.1 | 390 | 4 | US-10-354-247-24 | Sequence 24, Appl |
| 905 | 32 | 57.1 | 396 | 3 | US-09-904-226-9 | Sequence 9, Appli |
| 906 | 32 | 57.1 | 399 | 4 | US-10-225-066A-394 | Sequence 394, App |
| 907 | 32 | 57.1 | 399 | 4 | US-10-374-780A-2748 | Sequence 2748, Ap |
| 908 | 32 | 57.1 | 399 | 5 | US-10-225-066A-394 | Sequence 394, App |
| 909 | 32 | 57.1 | 400 | 5 | US-10-739-930-7274 | Sequence 7274, Ap |
| 910 | 32 | 57.1 | 402 | 4 | US-10-116-275-334 | Sequence 334, App |
| 911 | 32 | 57.1 | 402 | 4 | US-10-408-765A-1274 | Sequence 1274, Ap |
| 912 | 32 | 57.1 | 402 | 5 | US-10-756-149-4695 | Sequence 4695, Ap |
| 913 | 32 | 57.1 | 403 | 4 | US-10-437-963-187817 | Sequence 187817, |
| 914 | 32 | 57.1 | 409 | 3 | US-09-771-161A-142 | Sequence 142, App |
| 915 | 32 | 57.1 | 410 | 4 | US-10-437-963-175817 | Sequence 175817, |
| 916 | 32 | 57.1 | 430 | 4 | US-10-425-114-65845 | Sequence 65845, A |
| 917 | 32 | 57.1 | 431 | 4 | US-10-437-963-185329 | Sequence 185329, |
| 918 | 32 | 57.1 | 432 | 4 | US-10-437-963-106508 | Sequence 106508, |
| 919 | 32 | 57.1 | 436 | 3 | US-09-925-301-1174 | Sequence 1174, Ap |
| 920 | 32 | 57.1 | 452 | 4 | US-10-032-585-7361 | Sequence 7361, Ap |
| 921 | 32 | 57.1 | 468 | 4 | US-10-108-260A-4473 | Sequence 4473, Ap |
| 922 | 32 | 57.1 | 480 | 4 | US-10-425-114-51840 | Sequence 51840, A |
| 923 | 32 | 57.1 | 480 | 4 | US-10-425-115-299952 | Sequence 299952, |
| 924 | 32 | 57.1 | 491 | 5 | US-10-965-898-19 | Sequence 19, Appl |
| 925 | 32 | 57.1 | 491 | 6 | US-11-097-143-8385 | Sequence 8385, Ap |
| 926 | 32 | 57.1 | 500 | 4 | US-10-437-963-154068 | Sequence 154068, |
| 927 | 32 | 57.1 | 500 | 4 | US-10-425-115-187755 | Sequence 187755, |
| 928 | 32 | 57.1 | 510 | 4 | US-10-424-599-152956 | Sequence 152956, |
| 929 | 32 | 57.1 | 514 | 4 | US-10-425-115-187752 | Sequence 187752, |
| 930 | 32 | 57.1 | 515 | 4 | US-10-437-963-107865 | Sequence 107865, |
| 931 | 32 | 57.1 | 519 | 4 | US-10-425-115-347839 | Sequence 347839, |
| 932 | 32 | 57.1 | 526 | 3 | US-09-948-783-120 | Sequence 120, App |
| 933 | 32 | 57.1 | 527 | 3 | US-09-892-877-119 | Sequence 119, App |
| 934 | 32 | 57.1 | 533 | 3 | US-09-892-877-230 | Sequence 230, App |
| 935 | 32 | 57.1 | 533 | 3 | US-09-948-783-232 | Sequence 232, App |
| 936 | 32 | 57.1 | 536 | 4 | US-10-264-049-2233 | Sequence 2233, Ap |
| 937 | 32 | 57.1 | 536 | 4 | US-10-408-765A-1902 | Sequence 1902, Ap |
| 938 | 32 | 57.1 | 542 | 5 | US-10-488-197-41 | Sequence 41, Appl |
| 939 | 32 | 57.1 | 544 | 4 | US-10-437-963-142806 | Sequence 142806, |
| 940 | 32 | 57.1 | 550 | 4 | US-10-437-963-120975 | Sequence 120975, |
| 941 | 32 | 57.1 | 555 | 4 | US-10-108-260A-3884 | Sequence 3884, Ap |
| 942 | 32 | 57.1 | 560 | 4 | US-10-693-999-10 | Sequence 10, Appl |
| 943 | 32 | 57.1 | 571 | 4 | US-10-108-260A-3307 | Sequence 3307, Ap |
| 944 | 32 | 57.1 | 573 | 4 | US-10-369-493-1774 | Sequence 1774, Ap |
| 945 | 32 | 57.1 | 591 | 4 | US-10-437-963-117761 | Sequence 117761, |
| 946 | 32 | 57.1 | 597 | 4 | US-10-429-873A-4 | Sequence 4, Appli |
| 947 | 32 | 57.1 | 597 | 6 | US-11-134-465-4 | Sequence 4, Appli |
| 948 | 32 | 57.1 | 613 | 4 | US-10-429-873A-2 | Sequence 2, Appli |
| 949 | 32 | 57.1 | 613 | 6 | US-11-134-465-2 | Sequence 2, Appli |
| 950 | 32 | 57.1 | 634 | 4 | US-10-425-114-55575 | Sequence 55575, A |
| 951 | 32 | 57.1 | 642 | 4 | US-10-437-963-197123 | Sequence 197123, |
| 952 | 32 | 57.1 | 647 | 3 | US-09-771-161A-233 | Sequence 233, App |
| 953 | 32 | 57.1 | 647 | 3 | US-09-771-161A-234 | Sequence 234, App |
| 954 | 32 | 57.1 | 647 | 4 | US-10-369-022-58 | Sequence 58, Appl |
| 955 | 32 | 57.1 | 647 | 5 | US-10-723-860-4463 | Sequence 4463, Ap |
| 956 | 32 | 57.1 | 647 | 5 | US-10-756-149-5788 | Sequence 5788, Ap |
| 957 | 32 | 57.1 | 655 | 4 | US-10-437-963-193822 | Sequence 193822, |
| 958 | 32 | 57.1 | 681 | 4 | US-10-437-963-104832 | Sequence 104832, |
| 959 | 32 | 57.1 | 697 | 5 | US-10-631-467-1621 | Sequence 1621, Ap |
| 960 | 32 | 57.1 | 702 | 5 | US-10-450-763-45059 | Sequence 45059, A |
| 961 | 32 | 57.1 | 723 | 5 | US-10-220-335-314 | Sequence 314, App |
| 962 | 32 | 57.1 | 726 | 4 | US-10-437-963-111775 | Sequence 111775, |
| 963 | 32 | 57.1 | 726 | 6 | US-11-097-143-37428 | Sequence 37428, A |
| 964 | 32 | 57.1 | 746 | 6 | US-11-097-143-27996 | Sequence 27996, A |
| 965 | 32 | 57.1 | 752 | 4 | US-10-094-749-2599 | Sequence 2599, Ap |
| 966 | 32 | 57.1 | 761 | 5 | US-10-450-763-31091 | Sequence 31091, A |
| 967 | 32 | 57.1 | 763 | 6 | US-11-097-143-15237 | Sequence 15237, A |
| 968 | 32 | 57.1 | 765 | 6 | US-11-097-143-20160 | Sequence 20160, A |
| 969 | 32 | 57.1 | 804 | 4 | US-10-156-761-7708 | Sequence 7708, Ap |
| 970 | 32 | 57.1 | 817 | 5 | US-10-840-060-305 | Sequence 305, App |
| 971 | 32 | 57.1 | 818 | 4 | US-10-437-963-145908 | Sequence 145908, |
| 972 | 32 | 57.1 | 822 | 4 | US-10-403-571-46 | Sequence 46, Appl |
| 973 | 32 | 57.1 | 825 | 4 | US-10-437-963-187948 | Sequence 187948, |
| 974 | 32 | 57.1 | 832 | 4 | US-10-437-963-145910 | Sequence 145910, |
| 975 | 32 | 57.1 | 852 | 4 | US-10-282-122A-63260 | Sequence 63260, A |
| 976 | 32 | 57.1 | 856 | 4 | US-10-099-322-116 | Sequence 116, App |

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| 977 | 32 | 57.1 | 856 | 4 | US-10-044-564-116 | Sequence 116, App |
| 978 | 32 | 57.1 | 856 | 5 | US-10-450-763-39214 | Sequence 39214, A |
| 979 | 32 | 57.1 | 856 | 6 | US-11-097-143-4146 | Sequence 4146, Ap |
| 980 | 32 | 57.1 | 859 | 4 | US-10-104-047-2443 | Sequence 2443, Ap |
| 981 | 32 | 57.1 | 871 | 5 | US-10-450-763-59313 | Sequence 59313, A |
| 982 | 32 | 57.1 | 873 | 6 | US-11-097-143-26115 | Sequence 26115, A |
| 983 | 32 | 57.1 | 877 | 6 | US-11-097-143-20184 | Sequence 20184, A |
| 984 | 32 | 57.1 | 904 | 4 | US-10-437-963-132195 | Sequence 132195, |
| 985 | 32 | 57.1 | 943 | 4 | US-10-425-115-254145 | Sequence 254145, |
| 986 | 32 | 57.1 | 1023 | 4 | US-10-437-963-118395 | Sequence 118395, |
| 987 | 32 | 57.1 | 1027 | 4 | US-10-437-963-137165 | Sequence 137165, |
| 988 | 32 | 57.1 | 1042 | 6 | US-11-097-143-10587 | Sequence 10587, A |
| 989 | 32 | 57.1 | 1045 | 4 | US-10-282-122A-46955 | Sequence 46955, A |
| 990 | 32 | 57.1 | 1104 | 5 | US-10-732-923-13965 | Sequence 13965, A |
| 991 | 32 | 57.1 | 1175 | 4 | US-10-437-963-171541 | Sequence 171541, |
| 992 | 32 | 57.1 | 1181 | 4 | US-10-467-685-19 | Sequence 19, Appl |
| 993 | 32 | 57.1 | 1233 | 5 | US-10-732-923-13528 | Sequence 13528, A |
| 994 | 32 | 57.1 | 1277 | 6 | US-11-097-143-26856 | Sequence 26856, A |
| 995 | 32 | 57.1 | 1344 | 5 | US-10-732-923-1220 | Sequence 1220, Ap |
| 996 | 32 | 57.1 | 1470 | 4 | US-10-032-585-7436 | Sequence 7436, Ap |
| 997 | 32 | 57.1 | 1489 | 4 | US-10-115-482-18 | Sequence 18, Appl |
| 998 | 32 | 57.1 | 1570 | 4 | US-10-437-963-136673 | Sequence 136673, |
| 999 | 32 | 57.1 | 1574 | 4 | US-10-437-963-150749 | Sequence 150749, |
| 1000 | 32 | 57.1 | 1594 | 4 | US-10-425-115-291526 | Sequence 291526, |

ALIGNMENTS

RESULT 1
US-09-891-823-16
; Sequence 16, Application US/09891823
; Publication No. US20020110566A1
; GENERAL INFORMATION:
; APPLICANT: Neefe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/09/891,823
; CURRENT FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-09-891-823-16

Query Match 100.0%; Score 56; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCKCDSTLR 9
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Db 1 CCKCDSTLR 9

RESULT 2
US-10-365-908-16
; Sequence 16, Application US/10365908
; Publication No. US20030170268A1
; GENERAL INFORMATION:
; APPLICANT: Neefe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/365,908
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-365-908-16

Query Match 100.0%; Score 56; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCKCDSTLR 9
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Db 1 CCKCDSTLR 9

RESULT 3
US-10-871-138-16
; Sequence 16, Application US/10871138
; Publication No. US20040235741A1
; GENERAL INFORMATION:
; APPLICANT: Neefe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/871,138
; CURRENT FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-871-138-16

Query Match 100.0%; Score 56; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCKCDSTLR 9
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Db 1 CCKCDSTLR 9

RESULT 4
US-09-891-823-30
; Sequence 30, Application US/09891823
; Publication No. US20020110566A1
; GENERAL INFORMATION:
; APPLICANT: Neefe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/09/891,823
; CURRENT FILING DATE: 2001-10-19

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;  PRIOR APPLICATION NUMBER: US 60/214,202
;  PRIOR FILING DATE: 2000-06-26
;  NUMBER OF SEQ ID NOS: 140
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 30
;    LENGTH: 10
;    TYPE: PRT
;    ORGANISM: Human papilloma virus
US-09-891-823-30

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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db          1 CCKCDSTLR 9


RESULT 5
US-10-365-908-30
; Sequence 30, Application US/10365908
; Publication No. US20030170268A1
; GENERAL INFORMATION:
;  APPLICANT: Neefe, John R.
;  APPLICANT:  Boux, Leslie J.
;  APPLICANT:  Winnett, Mark T.
;  APPLICANT:  Goldstone, Stephen E.
;  APPLICANT:  Siegel, Marvin
;  TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
;  FILE REFERENCE: 12071-003001
;  CURRENT APPLICATION NUMBER: US/10/365,908
;  CURRENT FILING DATE:  2003-02-13
;  PRIOR APPLICATION NUMBER: US/09/891,823
;  PRIOR FILING DATE: 2001-10-19
;  PRIOR APPLICATION NUMBER: US 60/214,202
;  PRIOR FILING DATE: 2000-06-26
;  NUMBER OF SEQ ID NOS: 140
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 30
;    LENGTH: 10
;    TYPE: PRT
;    ORGANISM: Human papilloma virus
US-10-365-908-30

  Query Match             100.0%;  Score 56;  DB 4;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.095;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db          1 CCKCDSTLR 9


RESULT 6
US-10-871-138-30
; Sequence 30, Application US/10871138
; Publication No. US20040235741A1
; GENERAL INFORMATION:
;  APPLICANT: Neefe, John R.
;  APPLICANT:  Boux, Leslie J.
;  APPLICANT:  Winnett, Mark T.
;  APPLICANT:  Goldstone, Stephen E.
;  APPLICANT:  Siegel, Marvin
;  TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
;  FILE REFERENCE: 12071-003001
;  CURRENT APPLICATION NUMBER: US/10/871,138
;  CURRENT FILING DATE:  2004-06-18
;  PRIOR APPLICATION NUMBER: US/09/891,823
;  PRIOR FILING DATE: 2001-06-26
;  PRIOR APPLICATION NUMBER: US 60/214,202
;  PRIOR FILING DATE: 2000-06-26
;  NUMBER OF SEQ ID NOS: 140
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 30
;    LENGTH: 10
;    TYPE: PRT
;    ORGANISM: Human papilloma virus
US-10-871-138-30

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  Best Local Similarity   100.0%;  Pred. No. 0.095;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db          1 CCKCDSTLR 9


RESULT 7
US-10-648-547-96
; Sequence 96, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/9
;  CURRENT APPLICATION NUMBER: US/10/648,547
;  CURRENT FILING DATE:  2003-08-25
;  PRIOR APPLICATION NUMBER: 10/306,541
;  PRIOR FILING DATE: 11-25-2002
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 11-23-2001
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 96
;    LENGTH: 15
;    TYPE: PRT
;    ORGANISM: human papillomavirus
US-10-648-547-96

  Query Match             100.0%;  Score 56;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.13;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db          5 CCKCDSTLR 13


RESULT 8
US-10-306-541-96
; Sequence 96, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/4
;  CURRENT APPLICATION NUMBER: US/10/306,541
;  CURRENT FILING DATE:  2003-11-25
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 2001-11-23
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 96
;    LENGTH: 15
;    TYPE: PRT
;    ORGANISM: human papillomavirus
US-10-306-541-96

  Query Match             100.0%;  Score 56;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.13;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy          1 CCKCDSTLR 9
              |||||||||
Db          5 CCKCDSTLR 13


RESULT 9
US-10-432-465-49
; Sequence 49, Application US/10432465
; Publication No. US20040091479A1
; GENERAL INFORMATION:
;  APPLICANT: Nieland, John
;  APPLICANT:  Kaufmann, Andreas
;  APPLICANT:  Kather, Angela
;  APPLICANT:  Schinz, Manuela
;  TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1
;  TITLE OF INVENTION:  Protein and E7 Protein and Their Use in Diagnosis and
;  TITLE OF INVENTION:  Therapy
;  FILE REFERENCE: 50125/077001
;  CURRENT APPLICATION NUMBER: US/10/432,465
;  CURRENT FILING DATE:  2003-12-10
;  PRIOR APPLICATION NUMBER: PCT/EP01/14037
;  PRIOR FILING DATE: 2001-11-30
;  PRIOR APPLICATION NUMBER: DE 10059631.2
;  PRIOR FILING DATE: 2000-12-01
;  NUMBER OF SEQ ID NOS: 116
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 49
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-432-465-49

  Query Match             100.0%;  Score 56;  DB 4;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.17;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db          3 CCKCDSTLR 11


RESULT 10
US-10-890-526-74
; Sequence 74, Application US/10890526
; Publication No. US20040258708A1
; GENERAL INFORMATION:
;  APPLICANT: Jochmus, Ingrid
;  APPLICANT:  Nieland, John
;  TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
;  TITLE OF INVENTION:  Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
;  TITLE OF INVENTION:  Therapy
;  FILE REFERENCE: 50125/036001
;  CURRENT APPLICATION NUMBER: US/10/890,526
;  CURRENT FILING DATE:  2004-07-13
;  PRIOR APPLICATION NUMBER: US/09/980,177
;  PRIOR FILING DATE: 2002-05-02
;  PRIOR APPLICATION NUMBER: PCT/EP00/05006
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: DE 19925199.1
;  PRIOR FILING DATE: 1999-06-01
;  NUMBER OF SEQ ID NOS: 77
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 74
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-890-526-74

  Query Match             100.0%;  Score 56;  DB 5;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.17;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db          3 CCKCDSTLR 11


RESULT 11
US-09-728-466-1
; Sequence 1, Application US/09728466
; Patent No. US20010029022A1
; GENERAL INFORMATION:
;  APPLICANT:  Fisher, Christopher
;  APPLICANT:  He, Wanxia
;  TITLE OF INVENTION:  Methods to Identify Anti-Viral Agents
;  FILE REFERENCE:  28341/6216
;  CURRENT APPLICATION NUMBER: US/09/728,466
;  CURRENT FILING DATE:  2000-12-01
;  PRIOR APPLICATION NUMBER:  09/382,616
;  PRIOR FILING DATE:  1999-08-25
;  NUMBER OF SEQ ID NOS:  43
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Papillomavirus sylvilagi
US-09-728-466-1

  Query Match             100.0%;  Score 56;  DB 3;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.64;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 12
US-09-820-765-4
; Sequence 4, Application US/09820765
; Publication No. US20020039584A1
;  GENERAL INFORMATION:
;       APPLICANT: BURGER, Alexander
;                  HALLEK, Michael
;       TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                           FORMULATIONS AND METHODS OF USE
;       NUMBER OF SEQUENCES: 28
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: FOLEY & LARDNER
;            STREET: 3000 K Street, N.W.
;            CITY: Washington
;            STATE: D.C.
;            COUNTRY: U.S.A.
;            ZIP: 20007-5109
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.30
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/820,765
;            FILING DATE: 30-Mar-2001
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: US 09/026,896
;            FILING DATE: 20-FEB-1998
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Sandercock, Colin G.
;            REGISTRATION NUMBER: 31,298
;            REFERENCE/DOCKET NUMBER: 37067/102
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (202) 672-5300
;            TELEFAX: (202) 672-5399
;  INFORMATION FOR SEQ ID NO: 4:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 98 amino acids
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;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-765-4

  Query Match             100.0%;  Score 56;  DB 3;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.64;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 13
US-09-824-017-4
; Sequence 4, Application US/09824017
; Publication No. US20020197668A1
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                            FORMULATIONS AND METHODS OF USE
;        NUMBER OF SEQUENCES: 28
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: FOLEY & LARDNER
;             STREET: 3000 K Street, N.W.
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: U.S.A.
;             ZIP: 20007-5109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/824,017
;             FILING DATE: 03-Apr-2001
;             CLASSIFICATION: 424
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 09/026,896
;             FILING DATE: 1998-02-20
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Sandercock, Colin G.
;             REGISTRATION NUMBER: 31,298
;             REFERENCE/DOCKET NUMBER: 37067/102
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 672-5300
;             TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 98 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-824-017-4

  Query Match             100.0%;  Score 56;  DB 3;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.64;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 14
US-09-986-118A-4
; Sequence 4, Application US/09986118A
; Publication No. US20030021806A1
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                            FORMULATIONS AND METHODS OF USE
;        NUMBER OF SEQUENCES: 28
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: FOLEY & LARDNER
;             STREET: 3000 K Street, N.W.
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: U.S.A.
;             ZIP: 20007-5109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/986,118A
;             FILING DATE: 07-No. US20030021806A1-2001
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US 09/026,896
;             FILING DATE: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Sandercock, Colin G.
;             REGISTRATION NUMBER: 31,298
;             REFERENCE/DOCKET NUMBER: 37067/102
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 672-5300
;             TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 98 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

  Query Match             100.0%;  Score 56;  DB 3;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.64;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 15
US-10-267-311-8
; Sequence 8, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
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```
;   OTHER INFORMATION: fusion sequence
US-10-267-311-8

  Query Match             100.0%;  Score 56;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.64;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 16
US-10-177-390-8
; Sequence 8, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
;  APPLICANT: Schuler, Gerold
;  APPLICANT:  N.V. Antwerps Innovatiecentrum
;  TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
;  TITLE OF INVENTION:  Polynucleotides by Electroporation
;  FILE REFERENCE: 021505wo/JH/ml
;  CURRENT APPLICATION NUMBER: US/10/177,390
;  CURRENT FILING DATE:  2002-06-20
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: fragment of
;   OTHER INFORMATION: human papilloma virus type 16 E7 gene
US-10-177-390-8

  Query Match             100.0%;  Score 56;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.64;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 17
US-10-201-764-19
; Sequence 19, Application US/10201764
; Publication No. US20030166140A1
; GENERAL INFORMATION:
;  APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
;  TITLE OF INVENTION:  IMMUNE RESPONSE
;  FILE REFERENCE: TBA
;  CURRENT APPLICATION NUMBER: US/10/201,764
;  CURRENT FILING DATE:  2002-07-22
;  PRIOR APPLICATION NUMBER: US/09/566,420
;  PRIOR FILING DATE: 2000-05-05
;  PRIOR APPLICATION NUMBER: 60/132,752
;  PRIOR FILING DATE: 1999-05-06
;  PRIOR APPLICATION NUMBER: 60/132,750
;  PRIOR FILING DATE: 1999-05-06
;  NUMBER OF SEQ ID NOS: 19
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type E7
US-10-201-764-19

  Query Match             100.0%;  Score 56;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.64;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 18
US-10-392-113-29
; Sequence 29, Application US/10392113
; Publication No. US20030224993A1
; GENERAL INFORMATION:
;  APPLICANT: Land, Hartmut
;  APPLICANT:  Deleu, Laurent
;  TITLE OF INVENTION: COMPOSITIONS THAT INHIBIT PROLIFERATION
;  TITLE OF INVENTION:  OF CANCER CELLS
;  FILE REFERENCE: 21108.0005U3
;  CURRENT APPLICATION NUMBER: US/10/392,113
;  CURRENT FILING DATE:  2003-03-17
;  PRIOR APPLICATION NUMBER: 60/365,078
;  PRIOR FILING DATE: 2002-03-15
;  PRIOR APPLICATION NUMBER: PCT/US01/32127
;  PRIOR FILING DATE: 2001-10-15
;  PRIOR APPLICATION NUMBER: 60/239,705
;  PRIOR FILING DATE: 2000-10-12
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 29
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:/Note =
;   OTHER INFORMATION: Synthetic Construct
US-10-392-113-29

  Query Match             100.0%;  Score 56;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.64;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 19
US-10-654-129-4
; Sequence 4, Application US/10654129
; Publication No. US20040081661A1
;  GENERAL INFORMATION:
;       APPLICANT: BURGER, Alexander
;                  HALLEK, Michael
;       TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                           FORMULATIONS AND METHODS OF USE
;       NUMBER OF SEQUENCES: 28
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: FOLEY & LARDNER
;            STREET: 3000 K Street, N.W.
;            CITY: Washington
;            STATE: D.C.
;            COUNTRY: U.S.A.
;            ZIP: 20007-5109
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.30
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/10/654,129
;            FILING DATE: 04-Sep-2003
;            CLASSIFICATION: 424
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: US/09/824,017
;            FILING DATE: 03-Apr-2001
;            APPLICATION NUMBER: 09/026,896
;
```

```
;             FILING DATE: 1998-02-20
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Sandercock, Colin G.
;             REGISTRATION NUMBER: 31,298
;             REFERENCE/DOCKET NUMBER: 37067/102
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 672-5300
;             TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 98 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-654-129-4

  Query Match             100.0%;  Score 56;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.64;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 20
US-10-681-410-19
; Sequence 19, Application US/10681410
; Publication No. US20040096426A1
; GENERAL INFORMATION:
;  APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
;  TITLE OF INVENTION:  IMMUNE RESPONSE
;  FILE REFERENCE: TBA
;  CURRENT APPLICATION NUMBER: US/10/681,410
;  CURRENT FILING DATE:  2003-10-08
;  PRIOR APPLICATION NUMBER: US/10/201,764
;  PRIOR FILING DATE: 2002-07-22
;  PRIOR APPLICATION NUMBER: US/09/566,420
;  PRIOR FILING DATE: 2000-05-05
;  PRIOR APPLICATION NUMBER: 60/132,752
;  PRIOR FILING DATE: 1999-05-06
;  PRIOR APPLICATION NUMBER: 60/132,750
;  PRIOR FILING DATE: 1999-05-06
;  NUMBER OF SEQ ID NOS: 19
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type E7
US-10-681-410-19

  Query Match             100.0%;  Score 56;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.64;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 21
US-10-772-988-3
; Sequence 3, Application US/10772988
; Publication No. US20040139485A1
; GENERAL INFORMATION:
;  APPLICANT: Thorgeirsson, Snorri S.
;  APPLICANT:  Woitach, Joseph T.
;  APPLICANT:  Zhang, Minghuang
;  TITLE OF INVENTION: cDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS PROTEI
;  TITLE OF INVENTION:  PRODUCT
;  FILE REFERENCE: 11613.29USW1
;  CURRENT APPLICATION NUMBER: US/10/772,988
;  CURRENT FILING DATE:  2004-02-05
;  PRIOR APPLICATION NUMBER: US/09/637,746
;  PRIOR FILING DATE: 2000-08-11
;  PRIOR APPLICATION NUMBER: PCT/US99/04142
;  PRIOR FILING DATE: 1999-02-25
;  PRIOR APPLICATION NUMBER: US 60/079,567
;  PRIOR FILING DATE: 1998-03-27
;  PRIOR APPLICATION NUMBER: US 60/075,922
;  PRIOR FILING DATE: 1998-02-25
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-772-988-3

  Query Match             100.0%;  Score 56;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.64;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 22
US-10-479-541-5
; Sequence 5, Application US/10479541
; Publication No. US20040151723A1
; GENERAL INFORMATION:
;  APPLICANT: Kirin Beer Kabushiki Kaisha
;  TITLE OF INVENTION: Novel E7 antigen epitope from human papillomavirus and
;  TITLE OF INVENTION:  CD4+ T cells activated thereby
;  FILE REFERENCE: 137240PX
;  CURRENT APPLICATION NUMBER: US/10/479,541
;  CURRENT FILING DATE:  2003-12-04
;  PRIOR APPLICATION NUMBER: 173803/2001
;  PRIOR FILING DATE: 2001-06-08
;  NUMBER OF SEQ ID NOS: 5
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-479-541-5

  Query Match             100.0%;  Score 56;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.64;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 23
US-10-042-526A-4
; Sequence 4, Application US/10042526A
; Publication No. US20050031636A1
; GENERAL INFORMATION:
;  APPLICANT: GISSMANN, et al.
;  TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE FORMULATIONS AND METHODS OF USE
;  FILE REFERENCE: 27013/38150
;  CURRENT APPLICATION NUMBER: US/10/042,526A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: US 09/632,286
;  PRIOR FILING DATE: 2000-08-03
;  PRIOR APPLICATION NUMBER: US 08/944,368
;  PRIOR FILING DATE: 1997-10-06
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: PatentIn version 3.3
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; SEQ ID NO 4
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human Papilloma Virus
US-10-042-526A-4

  Query Match             100.0%;  Score 56;  DB 5;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.64;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 24
US-10-657-399-1
; Sequence 1, Application US/10657399
; Publication No. US20050032038A1
; GENERAL INFORMATION:
;  APPLICANT: Fisher, Christopher
;  APPLICANT:  He, Wanxia
;  TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
;  FILE REFERENCE: 28341/6216
;  CURRENT APPLICATION NUMBER: US/10/657,399
;  CURRENT FILING DATE:  2003-09-08
;  PRIOR APPLICATION NUMBER: US/09/728,466
;  PRIOR FILING DATE: 2000-12-01
;  PRIOR APPLICATION NUMBER: 09/382,616
;  PRIOR FILING DATE: 1999-08-25
;  NUMBER OF SEQ ID NOS: 43
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Papillomavirus sylvilagi
US-10-657-399-1

  Query Match             100.0%;  Score 56;  DB 5;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.64;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 25
US-10-858-384-12
; Sequence 12, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 12
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-10-858-384-12

  Query Match             100.0%;  Score 56;  DB 5;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.64;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 26
US-10-484-063-26
; Sequence 26, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 26
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-484-063-26

  Query Match             100.0%;  Score 56;  DB 5;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.64;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 27
US-10-343-448-5
; Sequence 5, Application US/10343448
; Publication No. US20050054820A1
; GENERAL INFORMATION:
;  APPLICANT: WU, Tzyy-Choou
;  APPLICANT:  HUNG, Chien-Fu
;  TITLE OF INVENTION: MOLECULAR VACCINE LINKING AN ENDOPLASMIC RETICULUM CHAPERONE
;  TITLE OF INVENTION:  POLYPEPTIDE TO AN ANTIGEN
;  FILE REFERENCE: 2240-186463
;  CURRENT APPLICATION NUMBER: US/10/343,448
;  CURRENT FILING DATE:  2003-01-31
;  PRIOR APPLICATION NUMBER: PCT/US01/24134
;  PRIOR FILING DATE: 2001-08-02
;  PRIOR APPLICATION NUMBER: US 60/222,902
;  PRIOR FILING DATE: 2000-08-03
;  NUMBER OF SEQ ID NOS: 7
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-343-448-5

  Query Match             100.0%;  Score 56;  DB 5;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.64;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
```

```
Db         58 CCKCDSTLR 66


RESULT 28
US-10-679-956-8
; Sequence 8, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/679,956
;  CURRENT FILING DATE:  2003-10-06
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-679-956-8

  Query Match             100.0%;  Score 56;  DB 5;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.64;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 29
US-10-367-057-17
; Sequence 17, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
;  APPLICANT: Cuthill, Scott;
;  APPLICANT:  Jackson, Amanda;
;  APPLICANT:  Lewin, David A.;
;  APPLICANT:  Ooi, Chean Eng
;  TITLE OF INVENTION: Complexes and Methods of Using Same
;  FILE REFERENCE: 21402-559
;  CURRENT APPLICATION NUMBER: US/10/367,057
;  CURRENT FILING DATE:  2003-02-14
;  PRIOR APPLICATION NUMBER: 60/256,911
;  PRIOR FILING DATE: 2002-02-14
;  NUMBER OF SEQ ID NOS: 198
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 17
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-367-057-17

  Query Match             100.0%;  Score 56;  DB 5;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.64;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 30
US-11-077-939-5
; Sequence 5, Application US/11077939
; Publication No. US20050196865A1
; GENERAL INFORMATION:
;  APPLICANT: Frazer, Ian Hector
;  TITLE OF INVENTION: Gene Expression System Based on Codon Translation Efficiency
;  FILE REFERENCE: 10338-11U1
;  CURRENT APPLICATION NUMBER: US/11/077,939
;  CURRENT FILING DATE:  2005-03-11
;  PRIOR APPLICATION NUMBER: PCT/AU2003/001200
;  PRIOR FILING DATE: 2003-09-12
;  PRIOR APPLICATION NUMBER: US 60/410410
;  PRIOR FILING DATE: 2002-09-13
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-11-077-939-5

  Query Match             100.0%;  Score 56;  DB 6;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.64;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 31
US-10-115-440-7
; Sequence 7, Application US/10115440
; Publication No. US20040086845A1
; GENERAL INFORMATION:
;  APPLICANT: WU, Tzyy-Choou
;  APPLICANT:  HUNG, Chien-Fu
;  TITLE OF INVENTION: SUPERIOR MOLECULAR VACCINE LINKING THE TRANSLOCATION DOMAIN OF A
;  TITLE OF INVENTION:  BACTERIAL TOXIN TO AN ANTIGEN
;  FILE REFERENCE: 02240-179934
;  CURRENT APPLICATION NUMBER: US/10/115,440
;  CURRENT FILING DATE:  2002-09-30
;  PRIOR APPLICATION NUMBER: US 60/281,003
;  PRIOR FILING DATE: 2001-04-04
;  PRIOR APPLICATION NUMBER: PCT/US00/41422
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: US 09/501,097
;  PRIOR FILING DATE: 2000-02-09
;  PRIOR APPLICATION NUMBER: US 09/421,608
;  PRIOR FILING DATE: 1999-10-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
;   LENGTH: 99
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-115-440-7

  Query Match             100.0%;  Score 56;  DB 4;  Length 99;
  Best Local Similarity   100.0%;  Pred. No. 0.65;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 32
US-10-472-724-4
; Sequence 4, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
;  APPLICANT: Cid-Arregui, Angel
;  APPLICANT:  Zur Hausen, Harald
;  TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
```

```
;  FILE REFERENCE: 4121-154
;  CURRENT APPLICATION NUMBER: US/10/472,724
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP02/03271
;  PRIOR FILING DATE: 2002-03-22
;  PRIOR APPLICATION NUMBER: EP 01107271.7
;  PRIOR FILING DATE: 2001-03-23
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
;   LENGTH: 111
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic Construct
US-10-472-724-4

  Query Match             100.0%;  Score 56;  DB 4;  Length 111;
  Best Local Similarity   100.0%;  Pred. No. 0.71;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         63 CCKCDSTLR 71


RESULT 33
US-10-267-311-12
; Sequence 12, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
;   LENGTH: 121
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-12

  Query Match             100.0%;  Score 56;  DB 4;  Length 121;
  Best Local Similarity   100.0%;  Pred. No. 0.77;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         81 CCKCDSTLR 89


RESULT 34
US-10-679-956-12
; Sequence 12, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/679,956
;  CURRENT FILING DATE:  2003-10-06
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
;   LENGTH: 121
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-679-956-12

  Query Match             100.0%;  Score 56;  DB 5;  Length 121;
  Best Local Similarity   100.0%;  Pred. No. 0.77;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         81 CCKCDSTLR 89


RESULT 35
US-11-072-288-2
; Sequence 2, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
;  APPLICANT: KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE: 017753-122
;  CURRENT APPLICATION NUMBER: US/11/072,288
;  CURRENT FILING DATE:  2005-03-07
;  PRIOR APPLICATION NUMBER: US/09/462,993
;  PRIOR FILING DATE: 2000-04-17
;  PRIOR APPLICATION NUMBER: PCT/FR98/01576
;  PRIOR FILING DATE: 1998-07-17
;  PRIOR APPLICATION NUMBER: FR 97/09152
;  PRIOR FILING DATE: 1997-07-18
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 2
;   LENGTH: 185
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Derivated from human papillomavirus, strain
;   OTHER INFORMATION: HPV-16, E7 fusion signals of the rabies
;   OTHER INFORMATION: glycoprotein, clone E7*TMR.
US-11-072-288-2

  Query Match             100.0%;  Score 56;  DB 6;  Length 185;
  Best Local Similarity   100.0%;  Pred. No. 1.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         77 CCKCDSTLR 85


RESULT 36
US-10-267-311-35
; Sequence 35, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
```

```
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 35
;   LENGTH: 198
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-35

  Query Match             100.0%;  Score 56;  DB 4;  Length 198;
  Best Local Similarity   100.0%;  Pred. No. 1.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        158 CCKCDSTLR 166


RESULT 37
US-10-679-956-35
; Sequence 35, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/679,956
;  CURRENT FILING DATE:  2003-10-06
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 35
;   LENGTH: 198
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-679-956-35

  Query Match             100.0%;  Score 56;  DB 5;  Length 198;
  Best Local Similarity   100.0%;  Pred. No. 1.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        158 CCKCDSTLR 166


RESULT 38
US-10-000-903-1
; Sequence 1, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 1
;   LENGTH: 220
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-1

  Query Match             100.0%;  Score 56;  DB 4;  Length 220;
  Best Local Similarity   100.0%;  Pred. No. 1.3;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        171 CCKCDSTLR 179


RESULT 39
US-10-000-903-8
; Sequence 8, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 8
;   LENGTH: 220
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-8

  Query Match             100.0%;  Score 56;  DB 4;  Length 220;
  Best Local Similarity   100.0%;  Pred. No. 1.3;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        171 CCKCDSTLR 179


RESULT 40
US-10-899-771-1
; Sequence 1, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
```

; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
; OTHER INFORMATION: influenzae B and E7 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-1

Query Match 100.0%; Score 56; DB 5; Length 220;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCKCDSTLR 9
||||||||| 
Db 171 CCKCDSTLR 179

RESULT 41
US-10-899-771-8
; Sequence 8, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
; OTHER INFORMATION: influenzae B and mutated E7 from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-8

Query Match 100.0%; Score 56; DB 5; Length 220;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCKCDSTLR 9
||||||||| 
Db 171 CCKCDSTLR 179

RESULT 42
US-10-000-903-12
; Sequence 12, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-12

Query Match 100.0%; Score 56; DB 4; Length 239;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCKCDSTLR 9
||||||||| 
Db 190 CCKCDSTLR 198

RESULT 43
US-10-899-771-12
; Sequence 12, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and E7 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-12

Query Match 100.0%; Score 56; DB 5; Length 239;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCKCDSTLR 9
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Db 190 CCKCDSTLR 198

RESULT 44
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A

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;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 56;  DB 3;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 1.5;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
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Db        218 CCKCDSTLR 226


RESULT 45
US-10-115-440-5
; Sequence 5, Application US/10115440
; Publication No. US20040086845A1
; GENERAL INFORMATION:
;  APPLICANT: WU, Tzyy-Choou
;  APPLICANT:  HUNG, Chien-Fu
;  TITLE OF INVENTION: SUPERIOR MOLECULAR VACCINE LINKING THE TRANSLOCATION DOMAIN OF A
;  TITLE OF INVENTION:  BACTERIAL TOXIN TO AN ANTIGEN
;  FILE REFERENCE: 02240-179934
;  CURRENT APPLICATION NUMBER: US/10/115,440
;  CURRENT FILING DATE:  2002-09-30
;  PRIOR APPLICATION NUMBER: US 60/281,003
;  PRIOR FILING DATE: 2001-04-04
;  PRIOR APPLICATION NUMBER: PCT/US00/41422
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: US 09/501,097
;  PRIOR FILING DATE: 2000-02-09
;  PRIOR APPLICATION NUMBER: US 09/421,608
;  PRIOR FILING DATE: 1999-10-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;   LENGTH: 289
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-115-440-5

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  Best Local Similarity   100.0%;  Pred. No. 1.6;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
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Db        231 CCKCDSTLR 239


RESULT 46
US-10-267-311-33
; Sequence 33, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 33
;   LENGTH: 295
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-33

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Qy          1 CCKCDSTLR 9
              |||||||||
Db        255 CCKCDSTLR 263


RESULT 47
US-10-679-956-33
; Sequence 33, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/679,956
;  CURRENT FILING DATE:  2003-10-06
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 33
;   LENGTH: 295
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-679-956-33

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  Best Local Similarity   100.0%;  Pred. No. 1.6;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        255 CCKCDSTLR 263


RESULT 48
US-10-267-311-25
; Sequence 25, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
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;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 25
;   LENGTH: 324
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-25

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  Best Local Similarity   100.0%;  Pred. No. 1.7;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        284 CCKCDSTLR 292


RESULT 49
US-10-679-956-25
; Sequence 25, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/679,956
;  CURRENT FILING DATE:  2003-10-06
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 25
;   LENGTH: 324
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-679-956-25

  Query Match             100.0%;  Score 56;  DB 5;  Length 324;
  Best Local Similarity   100.0%;  Pred. No. 1.7;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        284 CCKCDSTLR 292


RESULT 50
US-10-472-724-10
; Sequence 10, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
;  APPLICANT: Cid-Arregui, Angel
;  APPLICANT:  Zur Hausen, Harald
;  TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
;  FILE REFERENCE: 4121-154
;  CURRENT APPLICATION NUMBER: US/10/472,724
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP02/03271
;  PRIOR FILING DATE: 2002-03-22
;  PRIOR APPLICATION NUMBER: EP 01107271.7
;  PRIOR FILING DATE: 2001-03-23
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10
;   LENGTH: 334
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic Construct
US-10-472-724-10

  Query Match             100.0%;  Score 56;  DB 4;  Length 334;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db        286 CCKCDSTLR 294


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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:29:56 ; Search time 8.4 Seconds
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49.591 Million cell updates/sec

Title: US-08-170-344-61
Perfect score: 56
Sequence: 1 CCKCDSTLR 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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12: /SIDS5/ptodata/1/pubpaa/US60_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 2 | 56 | 100.0 | 35 | 11 | US-11-041-893-101 | Sequence 101, App |
| 3 | 56 | 100.0 | 98 | 8 | US-10-511-814-8 | Sequence 8, Appli |
| 4 | 56 | 100.0 | 98 | 8 | US-10-511-814-11 | Sequence 11, Appl |
| 5 | 56 | 100.0 | 98 | 9 | US-10-530-253-14 | Sequence 14, Appl |
| 6 | 56 | 100.0 | 98 | 11 | US-11-179-478-4 | Sequence 4, Appli |
| 7 | 56 | 100.0 | 248 | 9 | US-10-530-253-1 | Sequence 1, Appli |
| 8 | 56 | 100.0 | 248 | 9 | US-10-530-253-3 | Sequence 3, Appli |
| 9 | 56 | 100.0 | 248 | 9 | US-10-530-253-5 | Sequence 5, Appli |
| 10 | 56 | 100.0 | 248 | 9 | US-10-530-253-7 | Sequence 7, Appli |
| 11 | 56 | 100.0 | 248 | 9 | US-10-530-253-9 | Sequence 9, Appli |
| 12 | 56 | 100.0 | 248 | 9 | US-10-530-253-11 | Sequence 11, Appl |
| 13 | 56 | 100.0 | 256 | 11 | US-11-192-923A-2 | Sequence 2, Appli |
| 14 | 51 | 91.1 | 10 | 9 | US-10-530-061-858 | Sequence 858, App |
| 15 | 49 | 87.5 | 99 | 9 | US-10-530-253-30 | Sequence 30, Appl |
| 16 | 47 | 83.9 | 10 | 9 | US-10-530-061-859 | Sequence 859, App |
| 17 | 45 | 80.4 | 98 | 9 | US-10-530-253-28 | Sequence 28, Appl |
| 18 | 44 | 78.6 | 109 | 9 | US-10-530-253-31 | Sequence 31, Appl |
| 19 | 39 | 69.6 | 99 | 9 | US-10-530-253-34 | Sequence 34, Appl |
| 20 | 39 | 69.6 | 106 | 9 | US-10-530-253-32 | Sequence 32, Appl |
| 21 | 39 | 69.6 | 348 | 9 | US-10-512-277-1 | Sequence 1, Appli |
| 22 | 39 | 69.6 | 538 | 11 | US-11-124-368A-311 | Sequence 311, App |
| 23 | 39 | 69.6 | 538 | 11 | US-11-124-368A-312 | Sequence 312, App |
| 24 | 39 | 69.6 | 538 | 11 | US-11-124-368A-313 | Sequence 313, App |
| 25 | 38 | 67.9 | 105 | 9 | US-10-530-253-27 | Sequence 27, Appl |
| 26 | 38 | 67.9 | 107 | 9 | US-10-530-253-37 | Sequence 37, Appl |
| 27 | 38 | 67.9 | 110 | 9 | US-10-530-253-38 | Sequence 38, Appl |
| 28 | 38 | 67.9 | 119 | 11 | US-11-079-463-5922 | Sequence 5922, Ap |
| 29 | 38 | 67.9 | 157 | 11 | US-11-079-463-6401 | Sequence 6401, Ap |
| 30 | 37 | 66.1 | 331 | 11 | US-11-087-099-3775 | Sequence 3775, Ap |
| 31 | 37 | 66.1 | 384 | 11 | US-11-172-740-475 | Sequence 475, App |
| 32 | 35 | 62.5 | 101 | 9 | US-10-530-253-33 | Sequence 33, Appl |
| 33 | 35 | 62.5 | 258 | 11 | US-11-188-298-9105 | Sequence 9105, Ap |
| 34 | 35 | 62.5 | 342 | 11 | US-11-188-298-9840 | Sequence 9840, Ap |
| 35 | 35 | 62.5 | 355 | 11 | US-11-108-528-78 | Sequence 78, Appl |
| 36 | 35 | 62.5 | 365 | 11 | US-11-108-528-76 | Sequence 76, Appl |
| 37 | 35 | 62.5 | 382 | 11 | US-11-124-368A-173 | Sequence 173, App |
| 38 | 35 | 62.5 | 382 | 11 | US-11-124-368A-174 | Sequence 174, App |
| 39 | 35 | 62.5 | 382 | 11 | US-11-127-877-58 | Sequence 58, Appl |
| 40 | 35 | 62.5 | 815 | 9 | US-10-506-454-716 | Sequence 716, App |
| 41 | 35 | 62.5 | 1302 | 11 | US-11-090-439-42 | Sequence 42, Appl |
| 42 | 34 | 60.7 | 315 | 11 | US-11-096-568A-6627 | Sequence 6627, Ap |
| 43 | 34 | 60.7 | 323 | 11 | US-11-096-568A-6626 | Sequence 6626, Ap |
| 44 | 34 | 60.7 | 433 | 11 | US-11-055-822-154 | Sequence 154, App |
| 45 | 34 | 60.7 | 585 | 9 | US-10-469-469-162 | Sequence 162, App |
| 46 | 34 | 60.7 | 585 | 9 | US-10-469-469-165 | Sequence 165, App |
| 47 | 34 | 60.7 | 1010 | 11 | US-11-052-554A-89 | Sequence 89, Appl |
| 48 | 34 | 60.7 | 1356 | 9 | US-10-922-232B-63 | Sequence 63, Appl |
| 49 | 33 | 58.9 | 134 | 11 | US-11-096-568A-4045 | Sequence 4045, Ap |
| 50 | 33 | 58.9 | 176 | 11 | US-11-225-903-2 | Sequence 2, Appli |
| 51 | 33 | 58.9 | 237 | 11 | US-11-264-096-1316 | Sequence 1316, Ap |
| 52 | 33 | 58.9 | 245 | 11 | US-11-018-868-44 | Sequence 44, Appl |
| 53 | 33 | 58.9 | 338 | 9 | US-10-467-657-4642 | Sequence 4642, Ap |
| 54 | 33 | 58.9 | 343 | 8 | US-10-511-937-2511 | Sequence 2511, Ap |
| 55 | 33 | 58.9 | 346 | 11 | US-11-087-099-11021 | Sequence 11021, A |
| 56 | 33 | 58.9 | 349 | 11 | US-11-147-047-47 | Sequence 47, Appl |
| 57 | 33 | 58.9 | 452 | 11 | US-11-096-568A-28121 | Sequence 28121, A |
| 58 | 33 | 58.9 | 520 | 11 | US-11-096-568A-28120 | Sequence 28120, A |
| 59 | 33 | 58.9 | 532 | 11 | US-11-188-298-16831 | Sequence 16831, A |
| 60 | 33 | 58.9 | 532 | 11 | US-11-188-298-18826 | Sequence 18826, A |
| 61 | 33 | 58.9 | 615 | 11 | US-11-096-568A-31197 | Sequence 31197, A |
| 62 | 33 | 58.9 | 707 | 11 | US-11-096-568A-31196 | Sequence 31196, A |
| 63 | 33 | 58.9 | 719 | 9 | US-10-511-538-247 | Sequence 247, App |
| 64 | 33 | 58.9 | 725 | 11 | US-11-096-568A-31195 | Sequence 31195, A |
| 65 | 33 | 58.9 | 3623 | 9 | US-10-995-561-593 | Sequence 593, App |
| 66 | 32 | 57.1 | 24 | 11 | US-11-119-293-22 | Sequence 22, Appl |
| 67 | 32 | 57.1 | 25 | 11 | US-11-119-293-16 | Sequence 16, Appl |
| 68 | 32 | 57.1 | 25 | 11 | US-11-119-293-17 | Sequence 17, Appl |
| 69 | 32 | 57.1 | 25 | 11 | US-11-119-293-29 | Sequence 29, Appl |
| 70 | 32 | 57.1 | 25 | 11 | US-11-119-293-33 | Sequence 33, Appl |
| 71 | 32 | 57.1 | 26 | 11 | US-11-121-044A-126 | Sequence 126, App |
| 72 | 32 | 57.1 | 30 | 11 | US-11-174-996A-22 | Sequence 22, Appl |
| 73 | 32 | 57.1 | 63 | 11 | US-11-174-996A-51 | Sequence 51, Appl |
| 74 | 32 | 57.1 | 114 | 11 | US-11-096-568A-13280 | Sequence 13280, A |
| 75 | 32 | 57.1 | 119 | 11 | US-11-087-099-8505 | Sequence 8505, Ap |
| 76 | 32 | 57.1 | 120 | 11 | US-11-087-099-11925 | Sequence 11925, A |
| 77 | 32 | 57.1 | 136 | 11 | US-11-087-099-6440 | Sequence 6440, Ap |
| 78 | 32 | 57.1 | 138 | 11 | US-11-188-298-6235 | Sequence 6235, Ap |
| 79 | 32 | 57.1 | 148 | 9 | US-10-526-716-2 | Sequence 2, Appli |
| 80 | 32 | 57.1 | 151 | 11 | US-11-072-512-3705 | Sequence 3705, Ap |
| 81 | 32 | 57.1 | 152 | 11 | US-11-096-568A-13279 | Sequence 13279, A |
| 82 | 32 | 57.1 | 154 | 11 | US-11-188-298-4706 | Sequence 4706, Ap |
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| 84 | 32 | 57.1 | 154 | 11 | US-11-188-298-17989 | Sequence 17989, A |
| 85 | 32 | 57.1 | 157 | 11 | US-11-188-298-17711 | Sequence 17711, A |
| 86 | 32 | 57.1 | 181 | 11 | US-11-096-568A-15093 | Sequence 15093, A |
| 87 | 32 | 57.1 | 181 | 11 | US-11-188-298-15664 | Sequence 15664, A |
| 88 | 32 | 57.1 | 185 | 11 | US-11-120-308-178 | Sequence 178, App |
| 89 | 32 | 57.1 | 203 | 11 | US-11-087-099-8087 | Sequence 8087, Ap |
| 90 | 32 | 57.1 | 206 | 11 | US-11-096-568A-15092 | Sequence 15092, A |
| 91 | 32 | 57.1 | 214 | 9 | US-10-927-641-70 | Sequence 70, Appl |
| 92 | 32 | 57.1 | 234 | 11 | US-11-172-740-1333 | Sequence 1333, Ap |
| 93 | 32 | 57.1 | 249 | 9 | US-10-967-527A-21 | Sequence 21, Appl |
| 94 | 32 | 57.1 | 249 | 11 | US-11-200-992-20 | Sequence 20, Appl |

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| 95 | 32 | 57.1 | 269 | 11 | US-11-072-512-3593 | Sequence 3593, Ap |
| 96 | 32 | 57.1 | 291 | 9 | US-10-527-500-43 | Sequence 43, Appl |
| 97 | 32 | 57.1 | 293 | 9 | US-10-527-500-77 | Sequence 77, Appl |
| 98 | 32 | 57.1 | 300 | 11 | US-11-096-568A-7455 | Sequence 7455, Ap |
| 99 | 32 | 57.1 | 321 | 11 | US-11-072-512-2235 | Sequence 2235, Ap |
| 100 | 32 | 57.1 | 324 | 11 | US-11-087-099-4433 | Sequence 4433, Ap |
| 101 | 32 | 57.1 | 324 | 11 | US-11-188-298-15103 | Sequence 15103, A |
| 102 | 32 | 57.1 | 329 | 11 | US-11-087-099-4471 | Sequence 4471, Ap |
| 103 | 32 | 57.1 | 329 | 11 | US-11-188-298-15134 | Sequence 15134, A |
| 104 | 32 | 57.1 | 332 | 11 | US-11-096-568A-7454 | Sequence 7454, Ap |
| 105 | 32 | 57.1 | 339 | 11 | US-11-188-298-21357 | Sequence 21357, A |
| 106 | 32 | 57.1 | 340 | 11 | US-11-096-568A-26558 | Sequence 26558, A |
| 107 | 32 | 57.1 | 343 | 11 | US-11-096-568A-26557 | Sequence 26557, A |
| 108 | 32 | 57.1 | 345 | 11 | US-11-087-099-11205 | Sequence 11205, A |
| 109 | 32 | 57.1 | 356 | 11 | US-11-188-298-9931 | Sequence 9931, Ap |
| 110 | 32 | 57.1 | 400 | 11 | US-11-096-568A-26556 | Sequence 26556, A |
| 111 | 32 | 57.1 | 402 | 11 | US-11-096-568A-24244 | Sequence 24244, A |
| 112 | 32 | 57.1 | 407 | 11 | US-11-096-568A-14655 | Sequence 14655, A |
| 113 | 32 | 57.1 | 412 | 11 | US-11-096-568A-14654 | Sequence 14654, A |
| 114 | 32 | 57.1 | 417 | 11 | US-11-079-463-8014 | Sequence 8014, Ap |
| 115 | 32 | 57.1 | 448 | 11 | US-11-096-568A-24243 | Sequence 24243, A |
| 116 | 32 | 57.1 | 543 | 11 | US-11-096-568A-24242 | Sequence 24242, A |
| 117 | 32 | 57.1 | 856 | 11 | US-11-054-281-116 | Sequence 116, App |
| 118 | 32 | 57.1 | 859 | 11 | US-11-072-512-2443 | Sequence 2443, Ap |
| 119 | 32 | 57.1 | 2712 | 11 | US-11-004-399-1736 | Sequence 1736, Ap |
| 120 | 32 | 57.1 | 2723 | 9 | US-10-895-064-388 | Sequence 388, App |
| 121 | 32 | 57.1 | 2723 | 11 | US-11-129-741-388 | Sequence 388, App |
| 122 | 32 | 57.1 | 2723 | 11 | US-11-129-741-3318 | Sequence 3318, Ap |
| 123 | 32 | 57.1 | 4590 | 8 | US-10-505-928-569 | Sequence 569, App |
| 124 | 31 | 55.4 | 10 | 9 | US-10-895-064-1214 | Sequence 1214, Ap |
| 125 | 31 | 55.4 | 10 | 11 | US-11-129-741-1214 | Sequence 1214, Ap |
| 126 | 31 | 55.4 | 22 | 11 | US-11-119-293-14 | Sequence 14, Appl |
| 127 | 31 | 55.4 | 23 | 11 | US-11-119-293-21 | Sequence 21, Appl |
| 128 | 31 | 55.4 | 24 | 11 | US-11-004-399-2730 | Sequence 2730, Ap |
| 129 | 31 | 55.4 | 27 | 11 | US-11-121-044A-92 | Sequence 92, Appl |
| 130 | 31 | 55.4 | 58 | 9 | US-10-914-391A-4 | Sequence 4, Appli |
| 131 | 31 | 55.4 | 58 | 11 | US-11-234-786-547 | Sequence 547, App |
| 132 | 31 | 55.4 | 107 | 11 | US-11-188-298-20880 | Sequence 20880, A |
| 133 | 31 | 55.4 | 129 | 11 | US-11-188-298-10208 | Sequence 10208, A |
| 134 | 31 | 55.4 | 138 | 11 | US-11-096-568A-22612 | Sequence 22612, A |
| 135 | 31 | 55.4 | 149 | 11 | US-11-096-568A-12138 | Sequence 12138, A |
| 136 | 31 | 55.4 | 172 | 11 | US-11-225-903-4 | Sequence 4, Appli |
| 137 | 31 | 55.4 | 175 | 11 | US-11-225-903-5 | Sequence 5, Appli |
| 138 | 31 | 55.4 | 176 | 11 | US-11-087-099-354 | Sequence 354, App |
| 139 | 31 | 55.4 | 176 | 11 | US-11-225-903-3 | Sequence 3, Appli |
| 140 | 31 | 55.4 | 181 | 11 | US-11-087-099-9675 | Sequence 9675, Ap |
| 141 | 31 | 55.4 | 181 | 11 | US-11-096-568A-12137 | Sequence 12137, A |
| 142 | 31 | 55.4 | 196 | 11 | US-11-135-603-10 | Sequence 10, Appl |
| 143 | 31 | 55.4 | 220 | 11 | US-11-096-568A-12918 | Sequence 12918, A |
| 144 | 31 | 55.4 | 231 | 11 | US-11-188-298-19681 | Sequence 19681, A |
| 145 | 31 | 55.4 | 234 | 11 | US-11-096-568A-4649 | Sequence 4649, Ap |
| 146 | 31 | 55.4 | 253 | 11 | US-11-096-568A-22611 | Sequence 22611, A |
| 147 | 31 | 55.4 | 260 | 11 | US-11-096-568A-5745 | Sequence 5745, Ap |
| 148 | 31 | 55.4 | 271 | 11 | US-11-098-686-11028 | Sequence 11028, A |
| 149 | 31 | 55.4 | 283 | 11 | US-11-096-568A-23098 | Sequence 23098, A |
| 150 | 31 | 55.4 | 314 | 9 | US-10-204-639-2 | Sequence 2, Appli |
| 151 | 31 | 55.4 | 331 | 11 | US-11-096-568A-5744 | Sequence 5744, Ap |
| 152 | 31 | 55.4 | 335 | 11 | US-11-188-298-21671 | Sequence 21671, A |
| 153 | 31 | 55.4 | 340 | 11 | US-11-188-298-20665 | Sequence 20665, A |
| 154 | 31 | 55.4 | 344 | 11 | US-11-096-568A-23536 | Sequence 23536, A |
| 155 | 31 | 55.4 | 344 | 11 | US-11-096-568A-29040 | Sequence 29040, A |
| 156 | 31 | 55.4 | 346 | 11 | US-11-096-568A-5743 | Sequence 5743, Ap |
| 157 | 31 | 55.4 | 354 | 11 | US-11-096-568A-23097 | Sequence 23097, A |
| 158 | 31 | 55.4 | 357 | 11 | US-11-217-919-4 | Sequence 4, Appli |
| 159 | 31 | 55.4 | 358 | 11 | US-11-096-568A-23096 | Sequence 23096, A |
| 160 | 31 | 55.4 | 358 | 11 | US-11-188-298-9968 | Sequence 9968, Ap |
| 161 | 31 | 55.4 | 365 | 11 | US-11-096-568A-29039 | Sequence 29039, A |
| 162 | 31 | 55.4 | 370 | 11 | US-11-217-995-37 | Sequence 37, Appl |
| 163 | 31 | 55.4 | 371 | 11 | US-11-264-096-852 | Sequence 852, App |
| 164 | 31 | 55.4 | 382 | 11 | US-11-217-995-38 | Sequence 38, Appl |
| 165 | 31 | 55.4 | 404 | 11 | US-11-096-568A-32947 | Sequence 32947, A |
| 166 | 31 | 55.4 | 409 | 11 | US-11-096-568A-32946 | Sequence 32946, A |
| 167 | 31 | 55.4 | 433 | 11 | US-11-096-568A-4648 | Sequence 4648, Ap |
| 168 | 31 | 55.4 | 440 | 11 | US-11-096-568A-29038 | Sequence 29038, A |
| 169 | 31 | 55.4 | 456 | 11 | US-11-096-568A-32945 | Sequence 32945, A |
| 170 | 31 | 55.4 | 459 | 11 | US-11-096-568A-4647 | Sequence 4647, Ap |
| 171 | 31 | 55.4 | 464 | 11 | US-11-188-298-7950 | Sequence 7950, Ap |
| 172 | 31 | 55.4 | 465 | 11 | US-11-087-099-6870 | Sequence 6870, Ap |
| 173 | 31 | 55.4 | 468 | 10 | US-11-242-111-27 | Sequence 27, Appl |
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| 175 | 31 | 55.4 | 527 | 11 | US-11-135-603-2 | Sequence 2, Appli |
| 176 | 31 | 55.4 | 553 | 11 | US-11-234-786-113 | Sequence 113, App |
| 177 | 31 | 55.4 | 567 | 9 | US-10-420-192-8 | Sequence 8, Appli |
| 178 | 31 | 55.4 | 567 | 11 | US-11-072-175-197 | Sequence 197, App |
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| 180 | 31 | 55.4 | 682 | 11 | US-11-079-463-8936 | Sequence 8936, Ap |
| 181 | 31 | 55.4 | 796 | 11 | US-11-098-686-10187 | Sequence 10187, A |
| 182 | 31 | 55.4 | 797 | 11 | US-11-188-298-7331 | Sequence 7331, Ap |
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| 184 | 31 | 55.4 | 843 | 11 | US-11-096-568A-20148 | Sequence 20148, A |
| 185 | 31 | 55.4 | 876 | 11 | US-11-096-568A-20147 | Sequence 20147, A |
| 186 | 31 | 55.4 | 912 | 9 | US-10-501-035-372 | Sequence 372, App |
| 187 | 31 | 55.4 | 964 | 11 | US-11-024-959-477 | Sequence 477, App |
| 188 | 31 | 55.4 | 1115 | 9 | US-10-922-232B-60 | Sequence 60, Appl |
| 189 | 31 | 55.4 | 1128 | 11 | US-11-241-631-11 | Sequence 11, Appl |
| 190 | 31 | 55.4 | 1197 | 11 | US-11-178-230-10 | Sequence 10, Appl |
| 191 | 31 | 55.4 | 1336 | 10 | US-11-106-014-92 | Sequence 92, Appl |
| 192 | 31 | 55.4 | 1356 | 9 | US-10-894-592-3 | Sequence 3, Appli |
| 193 | 31 | 55.4 | 1435 | 9 | US-10-194-487-581 | Sequence 581, App |
| 194 | 31 | 55.4 | 1435 | 9 | US-10-195-883-581 | Sequence 581, App |
| 195 | 31 | 55.4 | 1435 | 9 | US-10-195-888-581 | Sequence 581, App |
| 196 | 31 | 55.4 | 1435 | 9 | US-10-195-889-581 | Sequence 581, App |
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| 199 | 31 | 55.4 | 1743 | 9 | US-10-195-883-451 | Sequence 451, App |
| 200 | 31 | 55.4 | 1743 | 9 | US-10-195-888-451 | Sequence 451, App |
| 201 | 31 | 55.4 | 1743 | 9 | US-10-195-889-451 | Sequence 451, App |
| 202 | 31 | 55.4 | 1886 | 9 | US-10-515-868-8 | Sequence 8, Appli |
| 203 | 31 | 55.4 | 2505 | 9 | US-10-523-328-16 | Sequence 16, Appl |
| 204 | 31 | 55.4 | 2508 | 11 | US-11-241-631-7 | Sequence 7, Appli |
| 205 | 31 | 55.4 | 2544 | 11 | US-11-241-631-3 | Sequence 3, Appli |
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| 207 | 31 | 55.4 | 3500 | 11 | US-11-085-775-2 | Sequence 2, Appli |
| 208 | 31 | 55.4 | 4440 | 9 | US-10-194-487-525 | Sequence 525, App |
| 209 | 31 | 55.4 | 4440 | 9 | US-10-195-883-525 | Sequence 525, App |
| 210 | 31 | 55.4 | 4440 | 9 | US-10-195-888-525 | Sequence 525, App |
| 211 | 31 | 55.4 | 4440 | 9 | US-10-195-889-525 | Sequence 525, App |
| 212 | 31 | 55.4 | 6738 | 9 | US-10-922-232B-56 | Sequence 56, Appl |
| 213 | 30.5 | 54.5 | 346 | 9 | US-10-131-826A-432 | Sequence 432, App |
| 214 | 30.5 | 54.5 | 346 | 9 | US-10-967-457-77 | Sequence 77, Appl |
| 215 | 30.5 | 54.5 | 346 | 9 | US-10-973-115B-432 | Sequence 432, App |
| 216 | 30.5 | 54.5 | 346 | 9 | US-10-137-873A-432 | Sequence 432, App |
| 217 | 30.5 | 54.5 | 346 | 9 | US-10-152-370-432 | Sequence 432, App |
| 218 | 30.5 | 54.5 | 346 | 11 | US-11-290-153-432 | Sequence 432, App |
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| 220 | 30.5 | 54.5 | 969 | 9 | US-10-055-877-214 | Sequence 214, App |
| 221 | 30 | 53.6 | 10 | 9 | US-10-530-061-860 | Sequence 860, App |
| 222 | 30 | 53.6 | 16 | 9 | US-10-670-009-12 | Sequence 12, Appl |
| 223 | 30 | 53.6 | 16 | 9 | US-10-670-009-13 | Sequence 13, Appl |
| 224 | 30 | 53.6 | 16 | 11 | US-11-142-327-1 | Sequence 1, Appli |
| 225 | 30 | 53.6 | 16 | 11 | US-11-142-327-2 | Sequence 2, Appli |
| 226 | 30 | 53.6 | 16 | 11 | US-11-142-327-3 | Sequence 3, Appli |
| 227 | 30 | 53.6 | 16 | 11 | US-11-142-327-4 | Sequence 4, Appli |
| 228 | 30 | 53.6 | 24 | 11 | US-11-217-995-13 | Sequence 13, Appl |
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| 230 | 30 | 53.6 | 27 | 9 | US-10-895-861-76 | Sequence 76, Appl |
| 231 | 30 | 53.6 | 27 | 9 | US-10-895-861-78 | Sequence 78, Appl |
| 232 | 30 | 53.6 | 27 | 9 | US-10-895-861-88 | Sequence 88, Appl |
| 233 | 30 | 53.6 | 30 | 9 | US-10-467-657-9131 | Sequence 9131, Ap |
| 234 | 30 | 53.6 | 39 | 9 | US-10-895-861-90 | Sequence 90, Appl |
| 235 | 30 | 53.6 | 47 | 9 | US-10-895-861-92 | Sequence 92, Appl |
| 236 | 30 | 53.6 | 58 | 11 | US-11-096-568A-9811 | Sequence 9811, Ap |
| 237 | 30 | 53.6 | 62 | 11 | US-11-096-568A-2469 | Sequence 2469, Ap |
| 238 | 30 | 53.6 | 63 | 11 | US-11-090-617-700 | Sequence 700, App |
| 239 | 30 | 53.6 | 67 | 11 | US-11-096-568A-2468 | Sequence 2468, Ap |
| 240 | 30 | 53.6 | 75 | 11 | US-11-174-996A-85 | Sequence 85, Appl |

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| 241 | 30 | 53.6 | 76 | 9 | US-10-954-468-36 | Sequence 36, Appl |
| 242 | 30 | 53.6 | 81 | 11 | US-11-096-568A-9810 | Sequence 9810, Ap |
| 243 | 30 | 53.6 | 101 | 11 | US-11-096-568A-9809 | Sequence 9809, Ap |
| 244 | 30 | 53.6 | 101 | 11 | US-11-096-568A-13284 | Sequence 13284, A |
| 245 | 30 | 53.6 | 105 | 11 | US-11-096-568A-2467 | Sequence 2467, Ap |
| 246 | 30 | 53.6 | 105 | 11 | US-11-096-568A-13283 | Sequence 13283, A |
| 247 | 30 | 53.6 | 106 | 11 | US-11-087-099-335 | Sequence 335, App |
| 248 | 30 | 53.6 | 107 | 11 | US-11-087-099-8563 | Sequence 8563, Ap |
| 249 | 30 | 53.6 | 108 | 11 | US-11-043-788-229 | Sequence 229, App |
| 250 | 30 | 53.6 | 111 | 11 | US-11-152-601-18 | Sequence 18, Appl |
| 251 | 30 | 53.6 | 111 | 11 | US-11-152-601-36 | Sequence 36, Appl |
| 252 | 30 | 53.6 | 112 | 11 | US-11-221-281-50 | Sequence 50, Appl |
| 253 | 30 | 53.6 | 123 | 11 | US-11-072-512-3236 | Sequence 3236, Ap |
| 254 | 30 | 53.6 | 127 | 11 | US-11-188-298-19150 | Sequence 19150, A |
| 255 | 30 | 53.6 | 129 | 10 | US-11-183-218-14 | Sequence 14, Appl |
| 256 | 30 | 53.6 | 129 | 11 | US-11-183-205-14 | Sequence 14, Appl |
| 257 | 30 | 53.6 | 136 | 11 | US-11-188-298-18534 | Sequence 18534, A |
| 258 | 30 | 53.6 | 137 | 11 | US-11-221-281-48 | Sequence 48, Appl |
| 259 | 30 | 53.6 | 137 | 11 | US-11-221-281-49 | Sequence 49, Appl |
| 260 | 30 | 53.6 | 137 | 11 | US-11-221-281-51 | Sequence 51, Appl |
| 261 | 30 | 53.6 | 141 | 11 | US-11-098-686-11241 | Sequence 11241, A |
| 262 | 30 | 53.6 | 142 | 11 | US-11-188-298-16631 | Sequence 16631, A |
| 263 | 30 | 53.6 | 147 | 11 | US-11-188-298-2734 | Sequence 2734, Ap |
| 264 | 30 | 53.6 | 153 | 11 | US-11-043-788-223 | Sequence 223, App |
| 265 | 30 | 53.6 | 153 | 11 | US-11-043-788-228 | Sequence 228, App |
| 266 | 30 | 53.6 | 153 | 11 | US-11-244-925-4 | Sequence 4, Appli |
| 267 | 30 | 53.6 | 158 | 8 | US-10-505-928-195 | Sequence 195, App |
| 268 | 30 | 53.6 | 159 | 9 | US-10-493-909-50 | Sequence 50, Appl |
| 269 | 30 | 53.6 | 159 | 11 | US-11-223-492-24 | Sequence 24, Appl |
| 270 | 30 | 53.6 | 159 | 11 | US-11-188-298-11775 | Sequence 11775, A |
| 271 | 30 | 53.6 | 161 | 9 | US-10-986-405-230 | Sequence 230, App |
| 272 | 30 | 53.6 | 165 | 9 | US-10-793-626-3026 | Sequence 3026, Ap |
| 273 | 30 | 53.6 | 195 | 11 | US-11-043-788-220 | Sequence 220, App |
| 274 | 30 | 53.6 | 195 | 11 | US-11-043-788-227 | Sequence 227, App |
| 275 | 30 | 53.6 | 206 | 11 | US-11-079-463-5633 | Sequence 5633, Ap |
| 276 | 30 | 53.6 | 238 | 11 | US-11-087-099-5437 | Sequence 5437, Ap |
| 277 | 30 | 53.6 | 249 | 9 | US-10-467-657-8556 | Sequence 8556, Ap |
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| 282 | 30 | 53.6 | 267 | 11 | US-11-188-298-18153 | Sequence 18153, A |
| 283 | 30 | 53.6 | 270 | 11 | US-11-079-463-6112 | Sequence 6112, Ap |
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| 285 | 30 | 53.6 | 306 | 11 | US-11-188-298-9412 | Sequence 9412, Ap |
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| 293 | 30 | 53.6 | 429 | 11 | US-11-051-720-1317 | Sequence 1317, Ap |
| 294 | 30 | 53.6 | 434 | 11 | US-11-050-857-635 | Sequence 635, App |
| 295 | 30 | 53.6 | 434 | 11 | US-11-051-720-1315 | Sequence 1315, Ap |
| 296 | 30 | 53.6 | 446 | 11 | US-11-050-857-633 | Sequence 633, App |
| 297 | 30 | 53.6 | 446 | 11 | US-11-051-720-1430 | Sequence 1430, Ap |
| 298 | 30 | 53.6 | 454 | 11 | US-11-050-857-636 | Sequence 636, App |
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| 302 | 30 | 53.6 | 464 | 11 | US-11-051-720-1314 | Sequence 1314, Ap |
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| 304 | 30 | 53.6 | 474 | 11 | US-11-096-568A-19675 | Sequence 19675, A |
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| 312 | 30 | 53.6 | 615 | 9 | US-10-954-468-7 | Sequence 7, Appli |
| 313 | 30 | 53.6 | 622 | 9 | US-10-954-468-3 | Sequence 3, Appli |
| 314 | 30 | 53.6 | 628 | 9 | US-10-954-468-5 | Sequence 5, Appli |
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| 317 | 30 | 53.6 | 690 | 9 | US-10-954-468-35 | Sequence 35, Appl |
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| 320 | 30 | 53.6 | 1076 | 9 | US-10-131-826A-219 | Sequence 219, App |
| 321 | 30 | 53.6 | 1076 | 9 | US-10-973-115B-219 | Sequence 219, App |
| 322 | 30 | 53.6 | 1076 | 9 | US-10-137-873A-219 | Sequence 219, App |
| 323 | 30 | 53.6 | 1076 | 9 | US-10-152-370-219 | Sequence 219, App |
| 324 | 30 | 53.6 | 1076 | 11 | US-11-290-153-219 | Sequence 219, App |
| 325 | 30 | 53.6 | 1116 | 9 | US-10-498-691A-2 | Sequence 2, Appli |
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| 327 | 30 | 53.6 | 1129 | 9 | US-10-995-561-706 | Sequence 706, App |
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| 329 | 30 | 53.6 | 1141 | 11 | US-11-217-995-36 | Sequence 36, Appl |
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| 332 | 30 | 53.6 | 1300 | 9 | US-10-195-888-269 | Sequence 269, App |
| 333 | 30 | 53.6 | 1300 | 9 | US-10-195-889-269 | Sequence 269, App |
| 334 | 30 | 53.6 | 1362 | 9 | US-10-496-284-22 | Sequence 22, Appl |
| 335 | 30 | 53.6 | 1367 | 9 | US-10-995-561-538 | Sequence 538, App |
| 336 | 30 | 53.6 | 1367 | 9 | US-10-510-903-10 | Sequence 10, Appl |
| 337 | 30 | 53.6 | 1367 | 11 | US-11-113-202-18 | Sequence 18, Appl |
| 338 | 30 | 53.6 | 1368 | 9 | US-10-995-561-539 | Sequence 539, App |
| 339 | 30 | 53.6 | 1375 | 9 | US-10-995-561-809 | Sequence 809, App |
| 340 | 30 | 53.6 | 1376 | 11 | US-11-100-640-32 | Sequence 32, Appl |
| 341 | 30 | 53.6 | 1683 | 11 | US-11-131-479-38 | Sequence 38, Appl |
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| 345 | 30 | 53.6 | 2871 | 11 | US-11-169-041-131 | Sequence 131, App |
| 346 | 30 | 53.6 | 3002 | 9 | US-10-821-234-916 | Sequence 916, App |
| 347 | 30 | 53.6 | 5179 | 11 | US-11-108-172-1068 | Sequence 1068, Ap |
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| 349 | 29.5 | 52.7 | 720 | 9 | US-10-063-703-38 | Sequence 38, Appl |
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| 355 | 29.5 | 52.7 | 720 | 11 | US-11-103-195-38 | Sequence 38, Appl |
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| 358 | 29 | 51.8 | 8 | 11 | US-11-129-741-4048 | Sequence 4048, Ap |
| 359 | 29 | 51.8 | 10 | 11 | US-11-129-741-3997 | Sequence 3997, Ap |
| 360 | 29 | 51.8 | 20 | 11 | US-11-139-041-354 | Sequence 354, App |
| 361 | 29 | 51.8 | 20 | 11 | US-11-139-041-355 | Sequence 355, App |
| 362 | 29 | 51.8 | 20 | 11 | US-11-139-041-356 | Sequence 356, App |
| 363 | 29 | 51.8 | 20 | 11 | US-11-139-041-357 | Sequence 357, App |
| 364 | 29 | 51.8 | 21 | 11 | US-11-119-293-15 | Sequence 15, Appl |
| 365 | 29 | 51.8 | 25 | 11 | US-11-217-995-24 | Sequence 24, Appl |
| 366 | 29 | 51.8 | 30 | 11 | US-11-174-996A-3 | Sequence 3, Appli |
| 367 | 29 | 51.8 | 30 | 11 | US-11-174-996A-4 | Sequence 4, Appli |
| 368 | 29 | 51.8 | 30 | 11 | US-11-174-996A-15 | Sequence 15, Appl |
| 369 | 29 | 51.8 | 31 | 11 | US-11-110-274-303 | Sequence 303, App |
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| 372 | 29 | 51.8 | 33 | 11 | US-11-139-041-426 | Sequence 426, App |
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| 374 | 29 | 51.8 | 45 | 9 | US-10-895-861-62 | Sequence 62, Appl |
| 375 | 29 | 51.8 | 52 | 11 | US-11-188-298-3867 | Sequence 3867, Ap |
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| 379 | 29 | 51.8 | 67 | 11 | US-11-172-740-1843 | Sequence 1843, Ap |
| 380 | 29 | 51.8 | 71 | 11 | US-11-255-427-17 | Sequence 17, Appl |
| 381 | 29 | 51.8 | 72 | 11 | US-11-079-463-7140 | Sequence 7140, Ap |
| 382 | 29 | 51.8 | 76 | 11 | US-11-174-996A-63 | Sequence 63, Appl |
| 383 | 29 | 51.8 | 76 | 11 | US-11-174-996A-65 | Sequence 65, Appl |
| 384 | 29 | 51.8 | 81 | 11 | US-11-096-568A-31841 | Sequence 31841, A |
| 385 | 29 | 51.8 | 86 | 11 | US-11-188-298-2781 | Sequence 2781, Ap |
| 386 | 29 | 51.8 | 92 | 11 | US-11-000-463-380 | Sequence 380, App |

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| 387 | 29 | 51.8 | 92 | 11 | US-11-000-463-852 | Sequence 852, App |
| 388 | 29 | 51.8 | 93 | 11 | US-11-264-096-304 | Sequence 304, App |
| 389 | 29 | 51.8 | 98 | 11 | US-11-188-298-1119 | Sequence 1119, Ap |
| 390 | 29 | 51.8 | 99 | 11 | US-11-172-740-1845 | Sequence 1845, Ap |
| 391 | 29 | 51.8 | 103 | 11 | US-11-087-099-3472 | Sequence 3472, Ap |
| 392 | 29 | 51.8 | 106 | 11 | US-11-096-568A-16182 | Sequence 16182, A |
| 393 | 29 | 51.8 | 110 | 11 | US-11-172-740-1549 | Sequence 1549, Ap |
| 394 | 29 | 51.8 | 110 | 11 | US-11-172-740-1842 | Sequence 1842, Ap |
| 395 | 29 | 51.8 | 110 | 11 | US-11-188-298-14516 | Sequence 14516, A |
| 396 | 29 | 51.8 | 110 | 11 | US-11-188-298-16874 | Sequence 16874, A |
| 397 | 29 | 51.8 | 110 | 11 | US-11-188-298-17121 | Sequence 17121, A |
| 398 | 29 | 51.8 | 110 | 11 | US-11-188-298-17288 | Sequence 17288, A |
| 399 | 29 | 51.8 | 110 | 11 | US-11-188-298-20064 | Sequence 20064, A |
| 400 | 29 | 51.8 | 110 | 11 | US-11-188-298-20232 | Sequence 20232, A |
| 401 | 29 | 51.8 | 110 | 11 | US-11-188-298-22105 | Sequence 22105, A |
| 402 | 29 | 51.8 | 118 | 9 | US-10-467-657-1372 | Sequence 1372, Ap |
| 403 | 29 | 51.8 | 118 | 11 | US-11-172-740-1847 | Sequence 1847, Ap |
| 404 | 29 | 51.8 | 119 | 11 | US-11-172-740-1844 | Sequence 1844, Ap |
| 405 | 29 | 51.8 | 122 | 11 | US-11-172-740-1846 | Sequence 1846, Ap |
| 406 | 29 | 51.8 | 150 | 11 | US-11-096-568A-16181 | Sequence 16181, A |
| 407 | 29 | 51.8 | 150 | 11 | US-11-096-568A-23851 | Sequence 23851, A |
| 408 | 29 | 51.8 | 156 | 11 | US-11-096-568A-20489 | Sequence 20489, A |
| 409 | 29 | 51.8 | 166 | 11 | US-11-087-099-11694 | Sequence 11694, A |
| 410 | 29 | 51.8 | 176 | 9 | US-10-965-694-27 | Sequence 27, Appl |
| 411 | 29 | 51.8 | 180 | 11 | US-11-155-288-7 | Sequence 7, Appli |
| 412 | 29 | 51.8 | 189 | 11 | US-11-043-788-33 | Sequence 33, Appl |
| 413 | 29 | 51.8 | 190 | 11 | US-11-024-959-503 | Sequence 503, App |
| 414 | 29 | 51.8 | 194 | 11 | US-11-087-099-291 | Sequence 291, App |
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| 417 | 29 | 51.8 | 200 | 11 | US-11-127-622-4 | Sequence 4, Appli |
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| 419 | 29 | 51.8 | 202 | 11 | US-11-096-568A-23850 | Sequence 23850, A |
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| 422 | 29 | 51.8 | 215 | 11 | US-11-096-568A-13829 | Sequence 13829, A |
| 423 | 29 | 51.8 | 216 | 11 | US-11-188-298-17805 | Sequence 17805, A |
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| 426 | 29 | 51.8 | 220 | 9 | US-10-219-061-200 | Sequence 200, App |
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| 433 | 29 | 51.8 | 240 | 11 | US-11-021-441-28 | Sequence 28, Appl |
| 434 | 29 | 51.8 | 240 | 11 | US-11-096-568A-5043 | Sequence 5043, Ap |
| 435 | 29 | 51.8 | 240 | 11 | US-11-096-568A-23849 | Sequence 23849, A |
| 436 | 29 | 51.8 | 241 | 11 | US-11-096-568A-13828 | Sequence 13828, A |
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| 440 | 29 | 51.8 | 252 | 11 | US-11-096-568A-23931 | Sequence 23931, A |
| 441 | 29 | 51.8 | 268 | 11 | US-11-096-568A-13899 | Sequence 13899, A |
| 442 | 29 | 51.8 | 271 | 11 | US-11-188-298-9852 | Sequence 9852, Ap |
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| 444 | 29 | 51.8 | 273 | 11 | US-11-096-568A-13827 | Sequence 13827, A |
| 445 | 29 | 51.8 | 274 | 11 | US-11-087-099-5881 | Sequence 5881, Ap |
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| 447 | 29 | 51.8 | 283 | 11 | US-11-096-568A-13898 | Sequence 13898, A |
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| 451 | 29 | 51.8 | 299 | 11 | US-11-058-924-10 | Sequence 10, Appl |
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| 453 | 29 | 51.8 | 305 | 7 | US-09-978-360A-446 | Sequence 446, App |
| 454 | 29 | 51.8 | 312 | 9 | US-10-455-772-426 | Sequence 426, App |
| 455 | 29 | 51.8 | 312 | 9 | US-10-455-772-428 | Sequence 428, App |
| 456 | 29 | 51.8 | 312 | 9 | US-10-455-772-432 | Sequence 432, App |
| 457 | 29 | 51.8 | 312 | 9 | US-10-455-772-434 | Sequence 434, App |
| 458 | 29 | 51.8 | 312 | 9 | US-10-455-772-436 | Sequence 436, App |
| 459 | 29 | 51.8 | 312 | 9 | US-10-455-772-438 | Sequence 438, App |
| 460 | 29 | 51.8 | 312 | 9 | US-10-455-772-440 | Sequence 440, App |
| 461 | 29 | 51.8 | 316 | 11 | US-11-096-568A-33610 | Sequence 33610, A |
| 462 | 29 | 51.8 | 329 | 11 | US-11-087-099-5215 | Sequence 5215, Ap |
| 463 | 29 | 51.8 | 330 | 11 | US-11-110-274-4 | Sequence 4, Appli |
| 464 | 29 | 51.8 | 330 | 11 | US-11-040-218-35 | Sequence 35, Appl |
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| 466 | 29 | 51.8 | 334 | 11 | US-11-072-512-2440 | Sequence 2440, Ap |
| 467 | 29 | 51.8 | 334 | 11 | US-11-096-568A-23251 | Sequence 23251, A |
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| 469 | 29 | 51.8 | 339 | 11 | US-11-177-648-81 | Sequence 81, Appl |
| 470 | 29 | 51.8 | 344 | 11 | US-11-040-218-37 | Sequence 37, Appl |
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| 474 | 29 | 51.8 | 363 | 11 | US-11-096-568A-6555 | Sequence 6555, Ap |
| 475 | 29 | 51.8 | 371 | 11 | US-11-096-568A-6554 | Sequence 6554, Ap |
| 476 | 29 | 51.8 | 380 | 11 | US-11-096-568A-23250 | Sequence 23250, A |
| 477 | 29 | 51.8 | 384 | 11 | US-11-139-041-304 | Sequence 304, App |
| 478 | 29 | 51.8 | 384 | 11 | US-11-139-041-334 | Sequence 334, App |
| 479 | 29 | 51.8 | 385 | 11 | US-11-096-568A-23249 | Sequence 23249, A |
| 480 | 29 | 51.8 | 386 | 11 | US-11-096-568A-28197 | Sequence 28197, A |
| 481 | 29 | 51.8 | 388 | 11 | US-11-096-568A-15902 | Sequence 15902, A |
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| 484 | 29 | 51.8 | 401 | 11 | US-11-188-298-3289 | Sequence 3289, Ap |
| 485 | 29 | 51.8 | 407 | 11 | US-11-072-512-3074 | Sequence 3074, Ap |
| 486 | 29 | 51.8 | 411 | 10 | US-11-254-182-47 | Sequence 47, Appl |
| 487 | 29 | 51.8 | 411 | 11 | US-11-116-746-11 | Sequence 11, Appl |
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| 490 | 29 | 51.8 | 411 | 11 | US-11-280-654-4 | Sequence 4, Appli |
| 491 | 29 | 51.8 | 411 | 11 | US-11-297-327-1 | Sequence 1, Appli |
| 492 | 29 | 51.8 | 411 | 11 | US-11-297-448-1 | Sequence 1, Appli |
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| 495 | 29 | 51.8 | 414 | 11 | US-11-124-367A-519 | Sequence 519, App |
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| 497 | 29 | 51.8 | 422 | 11 | US-11-079-463-5965 | Sequence 5965, Ap |
| 498 | 29 | 51.8 | 424 | 11 | US-11-072-512-3194 | Sequence 3194, Ap |
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| 501 | 29 | 51.8 | 428 | 11 | US-11-127-622-2 | Sequence 2, Appli |
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| 504 | 29 | 51.8 | 435 | 11 | US-11-043-788-31 | Sequence 31, Appl |
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| 506 | 29 | 51.8 | 437 | 11 | US-11-087-099-2535 | Sequence 2535, Ap |
| 507 | 29 | 51.8 | 440 | 10 | US-11-254-182-49 | Sequence 49, Appl |
| 508 | 29 | 51.8 | 440 | 11 | US-11-280-654-2 | Sequence 2, Appli |
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| 510 | 29 | 51.8 | 458 | 11 | US-11-087-099-4646 | Sequence 4646, Ap |
| 511 | 29 | 51.8 | 476 | 9 | US-10-784-004-1220 | Sequence 1220, Ap |
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| 513 | 29 | 51.8 | 498 | 11 | US-11-124-368A-254 | Sequence 254, App |
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| 520 | 29 | 51.8 | 538 | 11 | US-11-124-368A-255 | Sequence 255, App |
| 521 | 29 | 51.8 | 538 | 11 | US-11-124-368A-256 | Sequence 256, App |
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| 525 | 29 | 51.8 | 585 | 9 | US-10-939-890-500 | Sequence 500, App |
| 526 | 29 | 51.8 | 585 | 9 | US-10-489-716-9 | Sequence 9, Appli |
| 527 | 29 | 51.8 | 585 | 9 | US-10-936-447-12 | Sequence 12, Appl |
| 528 | 29 | 51.8 | 585 | 11 | US-11-078-663-18 | Sequence 18, Appl |
| 529 | 29 | 51.8 | 585 | 11 | US-11-078-914-18 | Sequence 18, Appl |
| 530 | 29 | 51.8 | 585 | 11 | US-11-175-690-1 | Sequence 1, Appli |
| 531 | 29 | 51.8 | 585 | 11 | US-11-232-439-445 | Sequence 445, App |
| 532 | 29 | 51.8 | 585 | 11 | US-11-244-497-1 | Sequence 1, Appli |

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| 552 | 29 | 51.8 | 634 | 11 | US-11-175-690-279 | Sequence 279, App |
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| 556 | 29 | 51.8 | 636 | 11 | US-11-175-690-240 | Sequence 240, App |
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| 559 | 29 | 51.8 | 636 | 11 | US-11-175-690-277 | Sequence 277, App |
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| 562 | 29 | 51.8 | 637 | 11 | US-11-175-690-265 | Sequence 265, App |
| 563 | 29 | 51.8 | 637 | 11 | US-11-175-690-266 | Sequence 266, App |
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| 585 | 29 | 51.8 | 652 | 11 | US-11-175-690-218 | Sequence 218, App |
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| 589 | 29 | 51.8 | 655 | 11 | US-11-175-690-220 | Sequence 220, App |
| 590 | 29 | 51.8 | 656 | 11 | US-11-175-690-225 | Sequence 225, App |
| 591 | 29 | 51.8 | 656 | 11 | US-11-234-786-379 | Sequence 379, App |
| 592 | 29 | 51.8 | 656 | 11 | US-11-139-041-305 | Sequence 305, App |
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| 596 | 29 | 51.8 | 659 | 11 | US-11-175-690-221 | Sequence 221, App |
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| 601 | 29 | 51.8 | 665 | 11 | US-11-175-690-282 | Sequence 282, App |
| 602 | 29 | 51.8 | 667 | 11 | US-11-175-690-227 | Sequence 227, App |
| 603 | 29 | 51.8 | 669 | 9 | US-10-501-841-8 | Sequence 8, Appli |
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| 605 | 29 | 51.8 | 671 | 11 | US-11-234-786-380 | Sequence 380, App |
| 606 | 29 | 51.8 | 671 | 11 | US-11-139-041-306 | Sequence 306, App |
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| 608 | 29 | 51.8 | 673 | 11 | US-11-175-690-201 | Sequence 201, App |
| 609 | 29 | 51.8 | 673 | 11 | US-11-175-690-217 | Sequence 217, App |
| 610 | 29 | 51.8 | 673 | 11 | US-11-175-690-231 | Sequence 231, App |
| 611 | 29 | 51.8 | 674 | 11 | US-11-175-690-206 | Sequence 206, App |
| 612 | 29 | 51.8 | 678 | 11 | US-11-175-690-273 | Sequence 273, App |
| 613 | 29 | 51.8 | 678 | 11 | US-11-175-690-274 | Sequence 274, App |
| 614 | 29 | 51.8 | 681 | 11 | US-11-072-512-3586 | Sequence 3586, Ap |
| 615 | 29 | 51.8 | 688 | 11 | US-11-175-690-198 | Sequence 198, App |
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| 617 | 29 | 51.8 | 693 | 11 | US-11-175-690-199 | Sequence 199, App |
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| 621 | 29 | 51.8 | 728 | 11 | US-11-175-690-243 | Sequence 243, App |
| 622 | 29 | 51.8 | 728 | 11 | US-11-175-690-244 | Sequence 244, App |
| 623 | 29 | 51.8 | 728 | 11 | US-11-175-690-245 | Sequence 245, App |
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| 626 | 29 | 51.8 | 728 | 11 | US-11-175-690-248 | Sequence 248, App |
| 627 | 29 | 51.8 | 728 | 11 | US-11-175-690-253 | Sequence 253, App |
| 628 | 29 | 51.8 | 728 | 11 | US-11-175-690-254 | Sequence 254, App |
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| 632 | 29 | 51.8 | 729 | 11 | US-11-175-690-272 | Sequence 272, App |
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| 637 | 29 | 51.8 | 742 | 11 | US-11-175-690-525 | Sequence 525, App |
| 638 | 29 | 51.8 | 742 | 11 | US-11-175-690-528 | Sequence 528, App |
| 639 | 29 | 51.8 | 742 | 11 | US-11-175-690-531 | Sequence 531, App |
| 640 | 29 | 51.8 | 742 | 11 | US-11-175-690-534 | Sequence 534, App |
| 641 | 29 | 51.8 | 742 | 11 | US-11-175-690-543 | Sequence 543, App |
| 642 | 29 | 51.8 | 742 | 11 | US-11-175-690-546 | Sequence 546, App |
| 643 | 29 | 51.8 | 744 | 11 | US-11-175-690-255 | Sequence 255, App |
| 644 | 29 | 51.8 | 744 | 11 | US-11-175-690-256 | Sequence 256, App |
| 645 | 29 | 51.8 | 747 | 9 | US-10-501-035-224 | Sequence 224, App |
| 646 | 29 | 51.8 | 749 | 9 | US-10-936-447-6 | Sequence 6, Appli |
| 647 | 29 | 51.8 | 750 | 9 | US-10-936-447-2 | Sequence 2, Appli |
| 648 | 29 | 51.8 | 750 | 9 | US-10-936-447-4 | Sequence 4, Appli |
| 649 | 29 | 51.8 | 757 | 9 | US-10-936-447-8 | Sequence 8, Appli |
| 650 | 29 | 51.8 | 767 | 11 | US-11-175-690-203 | Sequence 203, App |
| 651 | 29 | 51.8 | 769 | 11 | US-11-175-690-204 | Sequence 204, App |
| 652 | 29 | 51.8 | 769 | 11 | US-11-175-690-435 | Sequence 435, App |
| 653 | 29 | 51.8 | 769 | 11 | US-11-175-690-455 | Sequence 455, App |
| 654 | 29 | 51.8 | 769 | 11 | US-11-175-690-491 | Sequence 491, App |
| 655 | 29 | 51.8 | 769 | 11 | US-11-175-690-494 | Sequence 494, App |
| 656 | 29 | 51.8 | 769 | 11 | US-11-175-690-497 | Sequence 497, App |
| 657 | 29 | 51.8 | 771 | 11 | US-11-175-690-485 | Sequence 485, App |
| 658 | 29 | 51.8 | 771 | 11 | US-11-175-690-488 | Sequence 488, App |
| 659 | 29 | 51.8 | 772 | 11 | US-11-175-690-471 | Sequence 471, App |
| 660 | 29 | 51.8 | 772 | 11 | US-11-175-690-479 | Sequence 479, App |
| 661 | 29 | 51.8 | 773 | 11 | US-11-175-690-450 | Sequence 450, App |
| 662 | 29 | 51.8 | 774 | 11 | US-11-175-690-430 | Sequence 430, App |
| 663 | 29 | 51.8 | 774 | 11 | US-11-175-690-445 | Sequence 445, App |
| 664 | 29 | 51.8 | 774 | 11 | US-11-175-690-460 | Sequence 460, App |
| 665 | 29 | 51.8 | 774 | 11 | US-11-175-690-500 | Sequence 500, App |
| 666 | 29 | 51.8 | 774 | 11 | US-11-175-690-505 | Sequence 505, App |
| 667 | 29 | 51.8 | 774 | 11 | US-11-175-690-510 | Sequence 510, App |
| 668 | 29 | 51.8 | 774 | 11 | US-11-175-690-515 | Sequence 515, App |
| 669 | 29 | 51.8 | 774 | 11 | US-11-175-690-520 | Sequence 520, App |
| 670 | 29 | 51.8 | 775 | 11 | US-11-175-690-463 | Sequence 463, App |
| 671 | 29 | 51.8 | 775 | 11 | US-11-175-690-468 | Sequence 468, App |
| 672 | 29 | 51.8 | 775 | 11 | US-11-175-690-476 | Sequence 476, App |
| 673 | 29 | 51.8 | 775 | 11 | US-11-175-690-482 | Sequence 482, App |
| 674 | 29 | 51.8 | 779 | 11 | US-11-175-690-205 | Sequence 205, App |
| 675 | 29 | 51.8 | 787 | 11 | US-11-175-690-251 | Sequence 251, App |
| 676 | 29 | 51.8 | 790 | 11 | US-11-175-690-257 | Sequence 257, App |
| 677 | 29 | 51.8 | 790 | 11 | US-11-175-690-258 | Sequence 258, App |
| 678 | 29 | 51.8 | 790 | 11 | US-11-175-690-259 | Sequence 259, App |

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| 680 | 29 | 51.8 | 790 | 11 | US-11-175-690-261 | Sequence 261, App |
| 681 | 29 | 51.8 | 790 | 11 | US-11-175-690-262 | Sequence 262, App |
| 682 | 29 | 51.8 | 801 | 11 | US-11-175-690-249 | Sequence 249, App |
| 683 | 29 | 51.8 | 801 | 11 | US-11-175-690-250 | Sequence 250, App |
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| 685 | 29 | 51.8 | 834 | 9 | US-10-973-115B-148 | Sequence 148, App |
| 686 | 29 | 51.8 | 834 | 9 | US-10-137-873A-148 | Sequence 148, App |
| 687 | 29 | 51.8 | 834 | 9 | US-10-152-370-148 | Sequence 148, App |
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| 689 | 29 | 51.8 | 834 | 11 | US-11-290-153-148 | Sequence 148, App |
| 690 | 29 | 51.8 | 835 | 11 | US-11-175-690-440 | Sequence 440, App |
| 691 | 29 | 51.8 | 841 | 9 | US-10-624-932-6 | Sequence 6, Appli |
| 692 | 29 | 51.8 | 841 | 9 | US-10-624-932-8 | Sequence 8, Appli |
| 693 | 29 | 51.8 | 850 | 11 | US-11-175-690-202 | Sequence 202, App |
| 694 | 29 | 51.8 | 853 | 7 | US-09-720-086-8 | Sequence 8, Appli |
| 695 | 29 | 51.8 | 859 | 7 | US-09-720-086-6 | Sequence 6, Appli |
| 696 | 29 | 51.8 | 899 | 8 | US-10-505-928-823 | Sequence 823, App |
| 697 | 29 | 51.8 | 906 | 8 | US-10-505-928-426 | Sequence 426, App |
| 698 | 29 | 51.8 | 908 | 7 | US-09-720-086-5 | Sequence 5, Appli |
| 699 | 29 | 51.8 | 912 | 7 | US-09-720-086-7 | Sequence 7, Appli |
| 700 | 29 | 51.8 | 915 | 11 | US-11-175-690-208 | Sequence 208, App |
| 701 | 29 | 51.8 | 929 | 9 | US-10-330-773-277 | Sequence 277, App |
| 702 | 29 | 51.8 | 932 | 11 | US-11-071-581-1 | Sequence 1, Appli |
| 703 | 29 | 51.8 | 974 | 9 | US-10-821-234-1152 | Sequence 1152, Ap |
| 704 | 29 | 51.8 | 993 | 9 | US-10-784-004-1233 | Sequence 1233, Ap |
| 705 | 29 | 51.8 | 1193 | 8 | US-10-505-928-537 | Sequence 537, App |
| 706 | 29 | 51.8 | 1249 | 11 | US-11-126-022-25 | Sequence 25, Appl |
| 707 | 29 | 51.8 | 1249 | 11 | US-11-126-022-30 | Sequence 30, Appl |
| 708 | 29 | 51.8 | 1464 | 9 | US-10-912-971-4 | Sequence 4, Appli |
| 709 | 29 | 51.8 | 1464 | 11 | US-11-076-074-1 | Sequence 1, Appli |
| 710 | 29 | 51.8 | 1464 | 11 | US-11-124-367A-262 | Sequence 262, App |
| 711 | 29 | 51.8 | 1503 | 11 | US-11-145-405B-5 | Sequence 5, Appli |
| 712 | 29 | 51.8 | 1523 | 9 | US-10-194-487-290 | Sequence 290, App |
| 713 | 29 | 51.8 | 1523 | 9 | US-10-195-883-290 | Sequence 290, App |
| 714 | 29 | 51.8 | 1523 | 9 | US-10-195-888-290 | Sequence 290, App |
| 715 | 29 | 51.8 | 1523 | 9 | US-10-195-889-290 | Sequence 290, App |
| 716 | 29 | 51.8 | 1719 | 11 | US-11-234-786-378 | Sequence 378, App |
| 717 | 29 | 51.8 | 2304 | 9 | US-10-330-773-310 | Sequence 310, App |
| 718 | 29 | 51.8 | 3460 | 8 | US-10-505-928-104 | Sequence 104, App |
| 719 | 29 | 51.8 | 3597 | 11 | US-11-019-711-6 | Sequence 6, Appli |
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| 721 | 29 | 51.8 | 3690 | 9 | US-10-995-561-1016 | Sequence 1016, Ap |
| 722 | 29 | 51.8 | 3717 | 9 | US-10-821-234-1076 | Sequence 1076, Ap |
| 723 | 29 | 51.8 | 5405 | 11 | US-11-108-172-1116 | Sequence 1116, Ap |
| 724 | 28.5 | 50.9 | 97 | 9 | US-10-530-253-29 | Sequence 29, Appl |
| 725 | 28.5 | 50.9 | 174 | 9 | US-10-506-454-1430 | Sequence 1430, Ap |
| 726 | 28 | 50.0 | 6 | 11 | US-11-004-399-1194 | Sequence 1194, Ap |
| 727 | 28 | 50.0 | 10 | 9 | US-10-530-061-665 | Sequence 665, App |
| 728 | 28 | 50.0 | 10 | 9 | US-10-530-061-666 | Sequence 666, App |
| 729 | 28 | 50.0 | 10 | 9 | US-10-530-061-668 | Sequence 668, App |
| 730 | 28 | 50.0 | 11 | 9 | US-10-530-061-659 | Sequence 659, App |
| 731 | 28 | 50.0 | 17 | 11 | US-11-129-741-3351 | Sequence 3351, Ap |
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| 733 | 28 | 50.0 | 20 | 11 | US-11-106-415-37 | Sequence 37, Appl |
| 734 | 28 | 50.0 | 20 | 11 | US-11-106-415-39 | Sequence 39, Appl |
| 735 | 28 | 50.0 | 20 | 11 | US-11-233-256-27 | Sequence 27, Appl |
| 736 | 28 | 50.0 | 20 | 11 | US-11-233-256-37 | Sequence 37, Appl |
| 737 | 28 | 50.0 | 20 | 11 | US-11-233-256-39 | Sequence 39, Appl |
| 738 | 28 | 50.0 | 24 | 11 | US-11-119-293-10 | Sequence 10, Appl |
| 739 | 28 | 50.0 | 25 | 11 | US-11-119-293-30 | Sequence 30, Appl |
| 740 | 28 | 50.0 | 30 | 11 | US-11-174-996A-1 | Sequence 1, Appli |
| 741 | 28 | 50.0 | 30 | 11 | US-11-174-996A-11 | Sequence 11, Appl |
| 742 | 28 | 50.0 | 31 | 11 | US-11-114-813-2 | Sequence 2, Appli |
| 743 | 28 | 50.0 | 31 | 11 | US-11-115-003-2 | Sequence 2, Appli |
| 744 | 28 | 50.0 | 47 | 11 | US-11-004-399-2134 | Sequence 2134, Ap |
| 745 | 28 | 50.0 | 50 | 11 | US-11-234-225-21 | Sequence 21, Appl |
| 746 | 28 | 50.0 | 50 | 11 | US-11-234-308-21 | Sequence 21, Appl |
| 747 | 28 | 50.0 | 54 | 11 | US-11-096-568A-2295 | Sequence 2295, Ap |
| 748 | 28 | 50.0 | 61 | 8 | US-10-505-928-590 | Sequence 590, App |
| 749 | 28 | 50.0 | 69 | 9 | US-10-467-657-1212 | Sequence 1212, Ap |
| 750 | 28 | 50.0 | 69 | 9 | US-10-506-454-577 | Sequence 577, App |
| 751 | 28 | 50.0 | 73 | 11 | US-11-174-996A-59 | Sequence 59, Appl |
| 752 | 28 | 50.0 | 73 | 11 | US-11-174-996A-79 | Sequence 79, Appl |
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| 754 | 28 | 50.0 | 77 | 11 | US-11-174-996A-53 | Sequence 53, Appl |
| 755 | 28 | 50.0 | 77 | 11 | US-11-174-996A-69 | Sequence 69, Appl |
| 756 | 28 | 50.0 | 77 | 11 | US-11-096-568A-2293 | Sequence 2293, Ap |
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| 759 | 28 | 50.0 | 85 | 11 | US-11-188-298-19214 | Sequence 19214, A |
| 760 | 28 | 50.0 | 86 | 11 | US-11-188-298-8724 | Sequence 8724, Ap |
| 761 | 28 | 50.0 | 97 | 11 | US-11-172-740-1554 | Sequence 1554, Ap |
| 762 | 28 | 50.0 | 101 | 11 | US-11-072-512-2516 | Sequence 2516, Ap |
| 763 | 28 | 50.0 | 101 | 11 | US-11-172-740-1550 | Sequence 1550, Ap |
| 764 | 28 | 50.0 | 101 | 11 | US-11-172-740-1551 | Sequence 1551, Ap |
| 765 | 28 | 50.0 | 101 | 11 | US-11-172-740-1552 | Sequence 1552, Ap |
| 766 | 28 | 50.0 | 101 | 11 | US-11-172-740-1553 | Sequence 1553, Ap |
| 767 | 28 | 50.0 | 105 | 9 | US-10-530-253-35 | Sequence 35, Appl |
| 768 | 28 | 50.0 | 109 | 11 | US-11-096-568A-13304 | Sequence 13304, A |
| 769 | 28 | 50.0 | 110 | 11 | US-11-087-099-9481 | Sequence 9481, Ap |
| 770 | 28 | 50.0 | 110 | 11 | US-11-087-099-11433 | Sequence 11433, A |
| 771 | 28 | 50.0 | 110 | 11 | US-11-232-440-61 | Sequence 61, Appl |
| 772 | 28 | 50.0 | 110 | 11 | US-11-188-298-353 | Sequence 353, App |
| 773 | 28 | 50.0 | 110 | 11 | US-11-188-298-6810 | Sequence 6810, Ap |
| 774 | 28 | 50.0 | 110 | 11 | US-11-188-298-7736 | Sequence 7736, Ap |
| 775 | 28 | 50.0 | 110 | 11 | US-11-188-298-8129 | Sequence 8129, Ap |
| 776 | 28 | 50.0 | 110 | 11 | US-11-188-298-8821 | Sequence 8821, Ap |
| 777 | 28 | 50.0 | 110 | 11 | US-11-188-298-9394 | Sequence 9394, Ap |
| 778 | 28 | 50.0 | 110 | 11 | US-11-188-298-14360 | Sequence 14360, A |
| 779 | 28 | 50.0 | 110 | 11 | US-11-188-298-17374 | Sequence 17374, A |
| 780 | 28 | 50.0 | 111 | 11 | US-11-188-298-16794 | Sequence 16794, A |
| 781 | 28 | 50.0 | 113 | 11 | US-11-096-568A-13804 | Sequence 13804, A |
| 782 | 28 | 50.0 | 116 | 11 | US-11-096-568A-6413 | Sequence 6413, Ap |
| 783 | 28 | 50.0 | 129 | 9 | US-10-519-390-15 | Sequence 15, Appl |
| 784 | 28 | 50.0 | 129 | 11 | US-11-176-830-207 | Sequence 207, App |
| 785 | 28 | 50.0 | 129 | 11 | US-11-176-830-543 | Sequence 543, App |
| 786 | 28 | 50.0 | 129 | 11 | US-11-176-830-544 | Sequence 544, App |
| 787 | 28 | 50.0 | 129 | 11 | US-11-176-830-545 | Sequence 545, App |
| 788 | 28 | 50.0 | 129 | 11 | US-11-176-830-546 | Sequence 546, App |
| 789 | 28 | 50.0 | 129 | 11 | US-11-176-830-547 | Sequence 547, App |
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| 794 | 28 | 50.0 | 129 | 11 | US-11-176-830-552 | Sequence 552, App |
| 795 | 28 | 50.0 | 129 | 11 | US-11-176-830-553 | Sequence 553, App |
| 796 | 28 | 50.0 | 129 | 11 | US-11-176-830-554 | Sequence 554, App |
| 797 | 28 | 50.0 | 129 | 11 | US-11-176-830-555 | Sequence 555, App |
| 798 | 28 | 50.0 | 129 | 11 | US-11-176-830-556 | Sequence 556, App |
| 799 | 28 | 50.0 | 129 | 11 | US-11-176-830-557 | Sequence 557, App |
| 800 | 28 | 50.0 | 129 | 11 | US-11-176-830-558 | Sequence 558, App |
| 801 | 28 | 50.0 | 129 | 11 | US-11-176-830-559 | Sequence 559, App |
| 802 | 28 | 50.0 | 129 | 11 | US-11-176-830-560 | Sequence 560, App |
| 803 | 28 | 50.0 | 129 | 11 | US-11-176-830-561 | Sequence 561, App |
| 804 | 28 | 50.0 | 129 | 11 | US-11-176-830-562 | Sequence 562, App |
| 805 | 28 | 50.0 | 129 | 11 | US-11-176-830-563 | Sequence 563, App |
| 806 | 28 | 50.0 | 129 | 11 | US-11-176-830-564 | Sequence 564, App |
| 807 | 28 | 50.0 | 129 | 11 | US-11-176-830-565 | Sequence 565, App |
| 808 | 28 | 50.0 | 129 | 11 | US-11-176-830-566 | Sequence 566, App |
| 809 | 28 | 50.0 | 129 | 11 | US-11-176-830-567 | Sequence 567, App |
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| 812 | 28 | 50.0 | 137 | 11 | US-11-188-298-5260 | Sequence 5260, Ap |
| 813 | 28 | 50.0 | 140 | 11 | US-11-096-568A-1837 | Sequence 1837, Ap |
| 814 | 28 | 50.0 | 143 | 9 | US-10-821-234-1122 | Sequence 1122, Ap |
| 815 | 28 | 50.0 | 145 | 11 | US-11-096-568A-2795 | Sequence 2795, Ap |
| 816 | 28 | 50.0 | 148 | 11 | US-11-087-099-539 | Sequence 539, App |
| 817 | 28 | 50.0 | 153 | 8 | US-10-511-937-2476 | Sequence 2476, Ap |
| 818 | 28 | 50.0 | 153 | 11 | US-11-174-398-8 | Sequence 8, Appli |
| 819 | 28 | 50.0 | 153 | 11 | US-11-289-226-13 | Sequence 13, Appl |
| 820 | 28 | 50.0 | 165 | 11 | US-11-204-554-5 | Sequence 5, Appli |
| 821 | 28 | 50.0 | 166 | 11 | US-11-079-463-7500 | Sequence 7500, Ap |
| 822 | 28 | 50.0 | 168 | 11 | US-11-096-568A-29983 | Sequence 29983, A |
| 823 | 28 | 50.0 | 169 | 11 | US-11-096-568A-24311 | Sequence 24311, A |
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| 827 | 28 | 50.0 | 176 | 11 | US-11-193-955-17 | Sequence 17, Appl |
| 828 | 28 | 50.0 | 176 | 11 | US-11-188-298-5715 | Sequence 5715, Ap |
| 829 | 28 | 50.0 | 181 | 11 | US-11-096-568A-11497 | Sequence 11497, A |
| 830 | 28 | 50.0 | 181 | 11 | US-11-153-071-4 | Sequence 4, Appli |
| 831 | 28 | 50.0 | 181 | 11 | US-11-153-071-27 | Sequence 27, Appl |
| 832 | 28 | 50.0 | 183 | 11 | US-11-188-298-22542 | Sequence 22542, A |
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| 834 | 28 | 50.0 | 190 | 11 | US-11-249-422-7 | Sequence 7, Appli |
| 835 | 28 | 50.0 | 191 | 9 | US-10-995-561-642 | Sequence 642, App |
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| 837 | 28 | 50.0 | 191 | 11 | US-11-075-400-2 | Sequence 2, Appli |
| 838 | 28 | 50.0 | 191 | 11 | US-11-226-005-4 | Sequence 4, Appli |
| 839 | 28 | 50.0 | 191 | 11 | US-11-129-076-9 | Sequence 9, Appli |
| 840 | 28 | 50.0 | 191 | 11 | US-11-145-494-2 | Sequence 2, Appli |
| 841 | 28 | 50.0 | 191 | 11 | US-11-075-047A-81 | Sequence 81, Appl |
| 842 | 28 | 50.0 | 191 | 11 | US-11-096-568A-18895 | Sequence 18895, A |
| 843 | 28 | 50.0 | 191 | 11 | US-11-208-288-7 | Sequence 7, Appli |
| 844 | 28 | 50.0 | 191 | 11 | US-11-204-554-4 | Sequence 4, Appli |
| 845 | 28 | 50.0 | 193 | 11 | US-11-096-568A-18894 | Sequence 18894, A |
| 846 | 28 | 50.0 | 195 | 11 | US-11-096-568A-18893 | Sequence 18893, A |
| 847 | 28 | 50.0 | 196 | 11 | US-11-096-568A-24310 | Sequence 24310, A |
| 848 | 28 | 50.0 | 200 | 11 | US-11-098-662-22 | Sequence 22, Appl |
| 849 | 28 | 50.0 | 200 | 11 | US-11-193-955-6 | Sequence 6, Appli |
| 850 | 28 | 50.0 | 205 | 11 | US-11-098-662-6 | Sequence 6, Appli |
| 851 | 28 | 50.0 | 205 | 11 | US-11-266-626-7 | Sequence 7, Appli |
| 852 | 28 | 50.0 | 206 | 11 | US-11-096-568A-11495 | Sequence 11495, A |
| 853 | 28 | 50.0 | 207 | 8 | US-10-322-836-10 | Sequence 10, Appl |
| 854 | 28 | 50.0 | 209 | 9 | US-10-995-561-640 | Sequence 640, App |
| 855 | 28 | 50.0 | 213 | 11 | US-11-096-568A-2102 | Sequence 2102, Ap |
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| 857 | 28 | 50.0 | 215 | 9 | US-10-995-561-646 | Sequence 646, App |
| 858 | 28 | 50.0 | 215 | 9 | US-10-921-793-64 | Sequence 64, Appl |
| 859 | 28 | 50.0 | 215 | 9 | US-10-931-198-64 | Sequence 64, Appl |
| 860 | 28 | 50.0 | 215 | 9 | US-10-942-042-64 | Sequence 64, Appl |
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| 863 | 28 | 50.0 | 232 | 9 | US-10-995-561-641 | Sequence 641, App |
| 864 | 28 | 50.0 | 232 | 9 | US-10-995-561-644 | Sequence 644, App |
| 865 | 28 | 50.0 | 232 | 11 | US-11-153-880-7 | Sequence 7, Appli |
| 866 | 28 | 50.0 | 232 | 11 | US-11-064-774A-147 | Sequence 147, App |
| 867 | 28 | 50.0 | 232 | 11 | US-11-211-724-5 | Sequence 5, Appli |
| 868 | 28 | 50.0 | 232 | 11 | US-11-233-119-7 | Sequence 7, Appli |
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| 872 | 28 | 50.0 | 247 | 8 | US-10-511-937-2940 | Sequence 2940, Ap |
| 873 | 28 | 50.0 | 247 | 11 | US-11-104-111-20 | Sequence 20, Appl |
| 874 | 28 | 50.0 | 252 | 11 | US-11-096-568A-6870 | Sequence 6870, Ap |
| 875 | 28 | 50.0 | 253 | 8 | US-10-322-836-8 | Sequence 8, Appli |
| 876 | 28 | 50.0 | 253 | 9 | US-10-509-691-2 | Sequence 2, Appli |
| 877 | 28 | 50.0 | 255 | 11 | US-11-026-396-5 | Sequence 5, Appli |
| 878 | 28 | 50.0 | 256 | 11 | US-11-096-568A-28582 | Sequence 28582, A |
| 879 | 28 | 50.0 | 257 | 11 | US-11-096-568A-30233 | Sequence 30233, A |
| 880 | 28 | 50.0 | 260 | 11 | US-11-087-099-1714 | Sequence 1714, Ap |
| 881 | 28 | 50.0 | 269 | 9 | US-10-495-597-3 | Sequence 3, Appli |
| 882 | 28 | 50.0 | 270 | 11 | US-11-096-568A-20463 | Sequence 20463, A |
| 883 | 28 | 50.0 | 270 | 11 | US-11-079-463-10002 | Sequence 10002, A |
| 884 | 28 | 50.0 | 271 | 11 | US-11-096-568A-31506 | Sequence 31506, A |
| 885 | 28 | 50.0 | 273 | 11 | US-11-026-396-7 | Sequence 7, Appli |
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| 887 | 28 | 50.0 | 275 | 11 | US-11-096-568A-31505 | Sequence 31505, A |
| 888 | 28 | 50.0 | 279 | 11 | US-11-096-568A-20461 | Sequence 20461, A |
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| 890 | 28 | 50.0 | 290 | 11 | US-11-188-298-19549 | Sequence 19549, A |
| 891 | 28 | 50.0 | 292 | 8 | US-10-322-836-18 | Sequence 18, Appl |
| 892 | 28 | 50.0 | 293 | 11 | US-11-026-396-4 | Sequence 4, Appli |
| 893 | 28 | 50.0 | 295 | 11 | US-11-026-396-2 | Sequence 2, Appli |
| 894 | 28 | 50.0 | 299 | 11 | US-11-087-099-9568 | Sequence 9568, Ap |
| 895 | 28 | 50.0 | 303 | 11 | US-11-172-740-2133 | Sequence 2133, Ap |
| 896 | 28 | 50.0 | 311 | 11 | US-11-188-298-379 | Sequence 379, App |
| 897 | 28 | 50.0 | 317 | 11 | US-11-096-568A-30232 | Sequence 30232, A |
| 898 | 28 | 50.0 | 318 | 9 | US-10-506-454-1649 | Sequence 1649, Ap |
| 899 | 28 | 50.0 | 321 | 9 | US-10-478-345-8 | Sequence 8, Appli |
| 900 | 28 | 50.0 | 322 | 11 | US-11-096-568A-27971 | Sequence 27971, A |
| 901 | 28 | 50.0 | 322 | 11 | US-11-096-568A-30231 | Sequence 30231, A |
| 902 | 28 | 50.0 | 326 | 11 | US-11-096-568A-22462 | Sequence 22462, A |
| 903 | 28 | 50.0 | 328 | 9 | US-10-974-127A-48 | Sequence 48, Appl |
| 904 | 28 | 50.0 | 329 | 11 | US-11-096-568A-27970 | Sequence 27970, A |
| 905 | 28 | 50.0 | 329 | 11 | US-11-188-298-15415 | Sequence 15415, A |
| 906 | 28 | 50.0 | 330 | 11 | US-11-188-298-2406 | Sequence 2406, Ap |
| 907 | 28 | 50.0 | 331 | 11 | US-11-172-740-1607 | Sequence 1607, Ap |
| 908 | 28 | 50.0 | 332 | 11 | US-11-105-268-59 | Sequence 59, Appl |
| 909 | 28 | 50.0 | 337 | 11 | US-11-157-930-5 | Sequence 5, Appli |
| 910 | 28 | 50.0 | 338 | 8 | US-10-322-836-16 | Sequence 16, Appl |
| 911 | 28 | 50.0 | 341 | 9 | US-10-506-454-619 | Sequence 619, App |
| 912 | 28 | 50.0 | 347 | 11 | US-11-087-099-1936 | Sequence 1936, Ap |
| 913 | 28 | 50.0 | 348 | 11 | US-11-087-099-346 | Sequence 346, App |
| 914 | 28 | 50.0 | 348 | 11 | US-11-188-298-6882 | Sequence 6882, Ap |
| 915 | 28 | 50.0 | 350 | 9 | US-10-506-454-226 | Sequence 226, App |
| 916 | 28 | 50.0 | 351 | 11 | US-11-087-099-8756 | Sequence 8756, Ap |
| 917 | 28 | 50.0 | 353 | 8 | US-10-322-836-38 | Sequence 38, Appl |
| 918 | 28 | 50.0 | 356 | 11 | US-11-052-554A-12 | Sequence 12, Appl |
| 919 | 28 | 50.0 | 359 | 9 | US-10-506-454-1637 | Sequence 1637, Ap |
| 920 | 28 | 50.0 | 360 | 11 | US-11-052-554A-7 | Sequence 7, Appli |
| 921 | 28 | 50.0 | 362 | 11 | US-11-096-568A-27969 | Sequence 27969, A |
| 922 | 28 | 50.0 | 364 | 11 | US-11-188-298-19461 | Sequence 19461, A |
| 923 | 28 | 50.0 | 368 | 11 | US-11-188-298-13614 | Sequence 13614, A |
| 924 | 28 | 50.0 | 376 | 11 | US-11-079-463-8252 | Sequence 8252, Ap |
| 925 | 28 | 50.0 | 377 | 11 | US-11-024-959-350 | Sequence 350, App |
| 926 | 28 | 50.0 | 390 | 9 | US-10-995-561-831 | Sequence 831, App |
| 927 | 28 | 50.0 | 390 | 9 | US-10-995-561-832 | Sequence 832, App |
| 928 | 28 | 50.0 | 391 | 9 | US-10-517-544-77 | Sequence 77, Appl |
| 929 | 28 | 50.0 | 391 | 9 | US-10-921-793-74 | Sequence 74, Appl |
| 930 | 28 | 50.0 | 391 | 9 | US-10-931-198-74 | Sequence 74, Appl |
| 931 | 28 | 50.0 | 391 | 9 | US-10-942-042-74 | Sequence 74, Appl |
| 932 | 28 | 50.0 | 393 | 11 | US-11-079-463-5346 | Sequence 5346, Ap |
| 933 | 28 | 50.0 | 396 | 11 | US-11-079-463-6058 | Sequence 6058, Ap |
| 934 | 28 | 50.0 | 396 | 11 | US-11-188-298-17251 | Sequence 17251, A |
| 935 | 28 | 50.0 | 397 | 11 | US-11-072-512-2919 | Sequence 2919, Ap |
| 936 | 28 | 50.0 | 399 | 8 | US-10-322-836-36 | Sequence 36, Appl |
| 937 | 28 | 50.0 | 399 | 11 | US-11-096-568A-22461 | Sequence 22461, A |
| 938 | 28 | 50.0 | 399 | 11 | US-11-188-298-6097 | Sequence 6097, Ap |
| 939 | 28 | 50.0 | 400 | 11 | US-11-018-018-7 | Sequence 7, Appli |
| 940 | 28 | 50.0 | 400 | 11 | US-11-047-757-7 | Sequence 7, Appli |
| 941 | 28 | 50.0 | 400 | 11 | US-11-166-892-15 | Sequence 15, Appl |
| 942 | 28 | 50.0 | 400 | 11 | US-11-048-490-7 | Sequence 7, Appli |
| 943 | 28 | 50.0 | 400 | 11 | US-11-074-374-18 | Sequence 18, Appl |
| 944 | 28 | 50.0 | 400 | 11 | US-11-077-664-7 | Sequence 7, Appli |
| 945 | 28 | 50.0 | 400 | 11 | US-11-154-293-28 | Sequence 28, Appl |
| 946 | 28 | 50.0 | 414 | 9 | US-10-506-454-813 | Sequence 813, App |
| 947 | 28 | 50.0 | 415 | 11 | US-11-268-629-2 | Sequence 2, Appli |
| 948 | 28 | 50.0 | 417 | 9 | US-10-194-487-474 | Sequence 474, App |
| 949 | 28 | 50.0 | 417 | 9 | US-10-195-883-474 | Sequence 474, App |
| 950 | 28 | 50.0 | 417 | 9 | US-10-195-888-474 | Sequence 474, App |
| 951 | 28 | 50.0 | 417 | 9 | US-10-195-889-474 | Sequence 474, App |
| 952 | 28 | 50.0 | 417 | 9 | US-10-218-784-220 | Sequence 220, App |
| 953 | 28 | 50.0 | 417 | 9 | US-10-219-061-220 | Sequence 220, App |
| 954 | 28 | 50.0 | 417 | 9 | US-10-219-062-220 | Sequence 220, App |
| 955 | 28 | 50.0 | 417 | 9 | US-10-219-064-220 | Sequence 220, App |
| 956 | 28 | 50.0 | 417 | 9 | US-10-233-134-220 | Sequence 220, App |
| 957 | 28 | 50.0 | 417 | 11 | US-11-195-851-16 | Sequence 16, Appl |
| 958 | 28 | 50.0 | 417 | 11 | US-11-188-298-15435 | Sequence 15435, A |
| 959 | 28 | 50.0 | 422 | 9 | US-10-632-150-4 | Sequence 4, Appli |
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| 961 | 28 | 50.0 | 422 | 11 | US-11-073-457-4 | Sequence 4, Appli |
| 962 | 28 | 50.0 | 422 | 11 | US-11-073-460-4 | Sequence 4, Appli |
| 963 | 28 | 50.0 | 423 | 11 | US-11-195-851-2 | Sequence 2, Appli |
| 964 | 28 | 50.0 | 423 | 11 | US-11-195-851-4 | Sequence 4, Appli |
| 965 | 28 | 50.0 | 423 | 11 | US-11-195-851-6 | Sequence 6, Appli |
| 966 | 28 | 50.0 | 430 | 9 | US-10-467-657-2346 | Sequence 2346, Ap |
| 967 | 28 | 50.0 | 432 | 11 | US-11-096-568A-22460 | Sequence 22460, A |
| 968 | 28 | 50.0 | 434 | 11 | US-11-268-629-7 | Sequence 7, Appli |
| 969 | 28 | 50.0 | 436 | 8 | US-10-505-928-592 | Sequence 592, App |
| 970 | 28 | 50.0 | 438 | 8 | US-10-322-836-42 | Sequence 42, Appl |

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| 971 | 28 | 50.0 | 442 | 11 | US-11-100-640-34 | Sequence 34, Appl |
| 972 | 28 | 50.0 | 442 | 11 | US-11-096-568A-22502 | Sequence 22502, A |
| 973 | 28 | 50.0 | 447 | 11 | US-11-109-156-30 | Sequence 30, Appl |
| 974 | 28 | 50.0 | 447 | 11 | US-11-096-568A-22501 | Sequence 22501, A |
| 975 | 28 | 50.0 | 448 | 11 | US-11-065-716-4 | Sequence 4, Appli |
| 976 | 28 | 50.0 | 454 | 11 | US-11-045-004-933 | Sequence 933, App |
| 977 | 28 | 50.0 | 459 | 11 | US-11-143-984A-31 | Sequence 31, Appl |
| 978 | 28 | 50.0 | 462 | 11 | US-11-065-716-46 | Sequence 46, Appl |
| 979 | 28 | 50.0 | 467 | 11 | US-11-065-716-49 | Sequence 49, Appl |
| 980 | 28 | 50.0 | 474 | 9 | US-10-506-454-605 | Sequence 605, App |
| 981 | 28 | 50.0 | 474 | 11 | US-11-065-716-3 | Sequence 3, Appli |
| 982 | 28 | 50.0 | 482 | 11 | US-11-065-716-5 | Sequence 5, Appli |
| 983 | 28 | 50.0 | 484 | 8 | US-10-322-836-40 | Sequence 40, Appl |
| 984 | 28 | 50.0 | 484 | 11 | US-11-264-096-706 | Sequence 706, App |
| 985 | 28 | 50.0 | 490 | 11 | US-11-065-716-16 | Sequence 16, Appl |
| 986 | 28 | 50.0 | 490 | 11 | US-11-087-099-8229 | Sequence 8229, Ap |
| 987 | 28 | 50.0 | 509 | 11 | US-11-065-716-1 | Sequence 1, Appli |
| 988 | 28 | 50.0 | 509 | 11 | US-11-065-716-7 | Sequence 7, Appli |
| 989 | 28 | 50.0 | 513 | 11 | US-11-043-788-369 | Sequence 369, App |
| 990 | 28 | 50.0 | 531 | 11 | US-11-096-568A-22500 | Sequence 22500, A |
| 991 | 28 | 50.0 | 532 | 8 | US-10-322-836-26 | Sequence 26, Appl |
| 992 | 28 | 50.0 | 533 | 11 | US-11-096-568A-27578 | Sequence 27578, A |
| 993 | 28 | 50.0 | 540 | 9 | US-10-821-234-1456 | Sequence 1456, Ap |
| 994 | 28 | 50.0 | 547 | 8 | US-10-322-836-4 | Sequence 4, Appli |
| 995 | 28 | 50.0 | 556 | 11 | US-11-072-512-3914 | Sequence 3914, Ap |
| 996 | 28 | 50.0 | 557 | 11 | US-11-096-568A-28291 | Sequence 28291, A |
| 997 | 28 | 50.0 | 575 | 9 | US-10-995-805-2 | Sequence 2, Appli |
| 998 | 28 | 50.0 | 575 | 11 | US-11-096-568A-27577 | Sequence 27577, A |
| 999 | 28 | 50.0 | 576 | 11 | US-11-045-004-2670 | Sequence 2670, Ap |
| 1000 | 28 | 50.0 | 578 | 8 | US-10-322-836-24 | Sequence 24, Appl |

ALIGNMENTS

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RESULT 1
US-10-530-061-656
; Sequence 656, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 656
;   LENGTH: 11
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-656

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Db          3 CCKCDSTLR 11


RESULT 2
US-11-041-893-101
; Sequence 101, Application US/11041893
; Publication No. US20060002941A1
; GENERAL INFORMATION:
;  APPLICANT: Mahairas, Gregory G.
;  TITLE OF INVENTION: COMPOSITIONS COMPRISING IMMUNE RESPONSE
;  TITLE OF INVENTION:  ALTERING AGENTS AND METHODS OF USE
;  FILE REFERENCE: 100123.401
;  CURRENT APPLICATION NUMBER: US/11/041,893
;  CURRENT FILING DATE:  2005-01-24
;  PRIOR APPLICATION NUMBER: US 60/616,855
;  PRIOR FILING DATE: 2004-10-06
;  PRIOR APPLICATION NUMBER: US 60/538,713
;  PRIOR FILING DATE: 2004-01-23
;  NUMBER OF SEQ ID NOS: 295
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 101
;   LENGTH: 35
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus E7
US-11-041-893-101

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Db         16 CCKCDSTLR 24


RESULT 3
US-10-511-814-8
; Sequence 8, Application US/10511814
; Publication No. US20060088472A1
; GENERAL INFORMATION:
;  APPLICANT: McCance, Dennis
;  APPLICANT:  Westbrook, III, Thomas F.
;  TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
;  FILE REFERENCE: 21108.0016U2
;  CURRENT APPLICATION NUMBER: US/10/511,814
;  CURRENT FILING DATE:  2004-10-19
;  PRIOR APPLICATION NUMBER: PCT/US03/12667
;  PRIOR FILING DATE: 2003-04-21
;  PRIOR APPLICATION NUMBER: 60/374,245
;  PRIOR FILING DATE: 2002-04-19
;  NUMBER OF SEQ ID NOS: 21
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:/Note =
;   OTHER INFORMATION: Synthetic Construct
US-10-511-814-8

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              |||||||||
Db         58 CCKCDSTLR 66


RESULT 4
US-10-511-814-11
; Sequence 11, Application US/10511814
; Publication No. US20060088472A1
; GENERAL INFORMATION:
;  APPLICANT: McCance, Dennis
;  APPLICANT:  Westbrook, III, Thomas F.
;  TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
;  FILE REFERENCE: 21108.0016U2
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;  CURRENT APPLICATION NUMBER: US/10/511,814
;  CURRENT FILING DATE:  2004-10-19
;  PRIOR APPLICATION NUMBER: PCT/US03/12667
;  PRIOR FILING DATE: 2003-04-21
;  PRIOR APPLICATION NUMBER: 60/374,245
;  PRIOR FILING DATE: 2002-04-19
;  NUMBER OF SEQ ID NOS: 21
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:/Note =
;   OTHER INFORMATION: Synthetic Construct
US-10-511-814-11

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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 5
US-10-530-253-14
; Sequence 14, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 14
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-14

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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 6
US-11-179-478-4
; Sequence 4, Application US/11179478
; Publication No. US20050249745A1
;  GENERAL INFORMATION:
;    APPLICANT:  BURGER, Alexander
;    APPLICANT:  HALLEK, Michael
;    TITLE OF INVENTION:  PAPILLOMA VIRUS CAPSOMERE VACCINE
;    TITLE OF INVENTION:  FORMULATIONS AND METHODS OF USE
;    NUMBER OF SEQUENCES:  28
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  FOLEY & LARDNER
;      STREET:  3000 K Street, N.W.
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20007-5109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/11/179,478
;      FILING DATE:  13-JULY-2005
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/10/654,129
;      FILING DATE:  04-Sep-2003
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Sandercock, Colin G.
;      REGISTRATION NUMBER:  31,298
;      REFERENCE/DOCKET NUMBER:  37067/102
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 672-5300
;      TELEFAX:  (202) 672-5399
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  98 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-11-179-478-4

  Query Match             100.0%;  Score 56;  DB 11;  Length 98;
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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 7
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-1

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Qy          1 CCKCDSTLR 9
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Db        208 CCKCDSTLR 216
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RESULT 8
US-10-530-253-3
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; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
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;   ORGANISM: Human papillomavirus type 16
US-10-530-253-3

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Qy          1 CCKCDSTLR 9
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Db        208 CCKCDSTLR 216


RESULT 9
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-5

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Qy          1 CCKCDSTLR 9
              |||||||||
Db        208 CCKCDSTLR 216


RESULT 10
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-7

  Query Match            100.0%;  Score 56;  DB 9;  Length 248;
  Best Local Similarity  100.0%;  Pred. No. 0.034;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 11
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-9

  Query Match            100.0%;  Score 56;  DB 9;  Length 248;
  Best Local Similarity  100.0%;  Pred. No. 0.034;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||||||||
Db         58 CCKCDSTLR 66


RESULT 12
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
```

; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11

Query Match 100.0%; Score 56; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.034;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCKCDSTLR 9
||||||||| 
Db 58 CCKCDSTLR 66

RESULT 13
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANG, XIAOWU
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; TITLE OF INVENTION: RECOMBINANT REPLICON
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; CURRENT FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match 100.0%; Score 56; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.035;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCKCDSTLR 9
||||||||| 
Db 58 CCKCDSTLR 66

RESULT 14
US-10-530-061-858
; Sequence 858, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 858
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-858

Query Match 91.1%; Score 51; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.016;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCKCDSTL 8
||||||||
Db 3 CCKCDSTL 10

RESULT 15
US-10-530-253-30
; Sequence 30, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 30
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Human papillomavirus type 35
US-10-530-253-30

Query Match 87.5%; Score 49; DB 9; Length 99;
Best Local Similarity 77.8%; Pred. No. 0.22;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCKCDSTLR 9
|||| :|||
Db 59 CCKCEATLR 67

RESULT 16
US-10-530-061-859
; Sequence 859, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503

```
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 859
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-859

  Query Match             83.9%;  Score 47;  DB 9;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.072;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDST 7
              |||||||
Db          3 CCKCDST 9


RESULT 17
US-10-530-253-28
; Sequence 28, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 28
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 31
US-10-530-253-28

  Query Match             80.4%;  Score 45;  DB 9;  Length 98;
  Best Local Similarity   77.8%;  Pred. No. 0.94;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              ||:| ||||
Db         58 CCQCKSTLR 66


RESULT 18
US-10-530-253-31
; Sequence 31, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 31
;   LENGTH: 109
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 39
US-10-530-253-31

  Query Match             78.6%;  Score 44;  DB 9;  Length 109;
  Best Local Similarity   66.7%;  Pred. No. 1.5;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              ||||::||:
Db         68 CCKCNNTLQ 76


RESULT 19
US-10-530-253-34
; Sequence 34, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 34
;   LENGTH: 99
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 52
US-10-530-253-34

  Query Match             69.6%;  Score 39;  DB 9;  Length 99;
  Best Local Similarity   77.8%;  Pred. No. 8.6;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |  ||||||
Db         60 CHSCDSTLR 68


RESULT 20
US-10-530-253-32
; Sequence 32, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 32
;   LENGTH: 106
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 45
US-10-530-253-32

  Query Match             69.6%;  Score 39;  DB 9;  Length 106;
  Best Local Similarity   62.5%;  Pred. No. 9.1;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;
```

```
Qy          1 CCKCDSTL 8
              |||||  :
Db         66 CCKCDGRI 73


RESULT 21
US-10-512-277-1
; Sequence 1, Application US/10512277
; Publication No. US20060005282A1
; GENERAL INFORMATION:
;  APPLICANT: ROSENBLUM, JONATHAN
;  TITLE OF INVENTION: PRODUCTION AND USE OF SALT TOLERANT AND CULTURE DENSITY
;  TITLE OF INVENTION:  TOLERANT ORGANISMS
;  FILE REFERENCE: 063391-0503
;  CURRENT APPLICATION NUMBER: US/10/512,277
;  CURRENT FILING DATE:  2004-10-22
;  PRIOR APPLICATION NUMBER: 60/375,083
;  PRIOR FILING DATE: 2002-04-23
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 1
;   LENGTH: 348
;   TYPE: PRT
;   ORGANISM: Saccharomyces cerevisiae
US-10-512-277-1

  Query Match             69.6%;  Score 39;  DB 9;  Length 348;
  Best Local Similarity   83.3%;  Pred. No. 24;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CCKCDS 6
              |||||:
Db        311 CCKCDN 316


RESULT 22
US-11-124-368A-311
; Sequence 311, Application US/11124368A
; Publication No. US20050287559A1
; GENERAL INFORMATION:
;  APPLICANT: Michele Cargill
;  APPLICANT:  James J. Devlin
;  APPLICANT:  May Luke
;  TITLE OF INVENTION: Genetic Polymorphisms Associated with
;  TITLE OF INVENTION:  Vascular Diseases, Methods of Detection and Uses Thereof
;  FILE REFERENCE: CL001524
;  CURRENT APPLICATION NUMBER: US/11/124,368A
;  CURRENT FILING DATE:  2005-05-09
;  PRIOR APPLICATION NUMBER: US 60/568,845
;  PRIOR FILING DATE: 2004-05-07
;  PRIOR APPLICATION NUMBER: US 60/625,936
;  PRIOR FILING DATE: 2004-11-09
;  NUMBER OF SEQ ID NOS: 21112
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 311
;   LENGTH: 538
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-124-368A-311

  Query Match             69.6%;  Score 39;  DB 11;  Length 538;
  Best Local Similarity   66.7%;  Pred. No. 34;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              || |  |||
Db        366 CCSCGRTLR 374


RESULT 23
US-11-124-368A-312
; Sequence 312, Application US/11124368A
; Publication No. US20050287559A1
; GENERAL INFORMATION:
;  APPLICANT: Michele Cargill
;  APPLICANT:  James J. Devlin
;  APPLICANT:  May Luke
;  TITLE OF INVENTION: Genetic Polymorphisms Associated with
;  TITLE OF INVENTION:  Vascular Diseases, Methods of Detection and Uses Thereof
;  FILE REFERENCE: CL001524
;  CURRENT APPLICATION NUMBER: US/11/124,368A
;  CURRENT FILING DATE:  2005-05-09
;  PRIOR APPLICATION NUMBER: US 60/568,845
;  PRIOR FILING DATE: 2004-05-07
;  PRIOR APPLICATION NUMBER: US 60/625,936
;  PRIOR FILING DATE: 2004-11-09
;  NUMBER OF SEQ ID NOS: 21112
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 312
;   LENGTH: 538
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-124-368A-312

  Query Match             69.6%;  Score 39;  DB 11;  Length 538;
  Best Local Similarity   66.7%;  Pred. No. 34;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              || |  |||
Db        366 CCSCGRTLR 374


RESULT 24
US-11-124-368A-313
; Sequence 313, Application US/11124368A
; Publication No. US20050287559A1
; GENERAL INFORMATION:
;  APPLICANT: Michele Cargill
;  APPLICANT:  James J. Devlin
;  APPLICANT:  May Luke
;  TITLE OF INVENTION: Genetic Polymorphisms Associated with
;  TITLE OF INVENTION:  Vascular Diseases, Methods of Detection and Uses Thereof
;  FILE REFERENCE: CL001524
;  CURRENT APPLICATION NUMBER: US/11/124,368A
;  CURRENT FILING DATE:  2005-05-09
;  PRIOR APPLICATION NUMBER: US 60/568,845
;  PRIOR FILING DATE: 2004-05-07
;  PRIOR APPLICATION NUMBER: US 60/625,936
;  PRIOR FILING DATE: 2004-11-09
;  NUMBER OF SEQ ID NOS: 21112
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 313
;   LENGTH: 538
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-124-368A-313

  Query Match             69.6%;  Score 39;  DB 11;  Length 538;
  Best Local Similarity   66.7%;  Pred. No. 34;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              || |  |||
Db        366 CCSCGRTLR 374


RESULT 25
US-10-530-253-27
; Sequence 27, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
```

; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 27
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-530-253-27

Query Match 67.9%; Score 38; DB 9; Length 105;
Best Local Similarity 44.4%; Pred. No. 13;
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CCKCDSTLR 9
||||:: ::
Db 65 CCKCEARIK 73

RESULT 26
US-10-530-253-37
; Sequence 37, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 37
; LENGTH: 107
; TYPE: PRT
; ORGANISM: Human papillomavirus type 59
US-10-530-253-37

Query Match 67.9%; Score 38; DB 9; Length 107;
Best Local Similarity 55.6%; Pred. No. 13;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CCKCDSTLR 9
||||:: |:
Db 67 CCKCNNQLQ 75

RESULT 27
US-10-530-253-38
; Sequence 38, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 38
; LENGTH: 110
; TYPE: PRT
; ORGANISM: Human papillomavirus type 68
US-10-530-253-38

Query Match 67.9%; Score 38; DB 9; Length 110;
Best Local Similarity 55.6%; Pred. No. 14;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CCKCDSTLR 9
||||: |:
Db 69 CCKCNKALQ 77

RESULT 28
US-11-079-463-5922
; Sequence 5922, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRAC
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 5922
; LENGTH: 119
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-5922

Query Match 67.9%; Score 38; DB 11; Length 119;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCKCD 5
|||||
Db 87 CCKCD 91

RESULT 29
US-11-079-463-6401
; Sequence 6401, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRAC
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 6401
; LENGTH: 157
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-6401

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  Query Match             67.9%;  Score 38;  DB 11;  Length 157;
  Best Local Similarity   66.7%;  Pred. No. 18;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              | :||||:|
Db        145 CRQCDSTMR 153


RESULT 30
US-11-087-099-3775
; Sequence 3775, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 3775
;   LENGTH: 331
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(331)
;   OTHER INFORMATION: unsure at all Xaa locations
US-11-087-099-3775

  Query Match             66.1%;  Score 37;  DB 11;  Length 331;
  Best Local Similarity   71.4%;  Pred. No. 48;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CCKCDST 7
              || |||:
Db         69 CCDCDSS 75


RESULT 31
US-11-172-740-475
; Sequence 475, Application US/11172740
; Publication No. US20060057724A1
; GENERAL INFORMATION:
;  APPLICANT: MASCIA, Peter
;  APPLICANT:  ALEXANDROV, Nickolai
;  APPLICANT:  BROVER, Vyacheslav
;  TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND POLYPEPTIDES ENCODED THEREBY USEFUL FOR
;  TITLE OF INVENTION:  PLANT CHARACTERISTICS AND PHENOTYPES
;  FILE REFERENCE: 2750-1602PUS2
;  CURRENT APPLICATION NUMBER: US/11/172,740
;  CURRENT FILING DATE:  2005-06-30
;  PRIOR APPLICATION NUMBER: 60/583,621
;  PRIOR FILING DATE: 2004-06-30
;  PRIOR APPLICATION NUMBER: 60/584,829
;  PRIOR FILING DATE: 2004-06-30
;  PRIOR APPLICATION NUMBER: 60/584,800
;  PRIOR FILING DATE: 2004-06-30
;  NUMBER OF SEQ ID NOS: 2523
; SEQ ID NO 475
;   LENGTH: 384
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(384)
;   OTHER INFORMATION: Ceres CLONE ID no. 336060
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION:
;   OTHER INFORMATION: Utility: Useful for delaying flowering time
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION:
;   OTHER INFORMATION: Utility: Useful for increasing chlorophyll and photosynthetic capa
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION:
;   OTHER INFORMATION: Utility: Useful for making plants with increased biomass and folia
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION:
;   OTHER INFORMATION: Utility: Useful for making smaller plants
US-11-172-740-475

  Query Match             66.1%;  Score 37;  DB 11;  Length 384;
  Best Local Similarity   85.7%;  Pred. No. 54;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CKCDSTL 8
              |||| ||
Db        186 CKCDCTL 192


RESULT 32
US-10-530-253-33
; Sequence 33, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 33
;   LENGTH: 101
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 51
US-10-530-253-33

  Query Match             62.5%;  Score 35;  DB 9;  Length 101;
  Best Local Similarity   44.4%;  Pred. No. 38;
  Matches    4;  Conservative    3;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              ||:| | ::
Db         62 CCRCSSVVQ 70


RESULT 33
US-11-188-298-9105
; Sequence 9105, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 9105
;   LENGTH: 258
;   TYPE: PRT
;   ORGANISM: Zea mays
```

```
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(258)
;   OTHER INFORMATION: unsure at all Xaa locations
US-11-188-298-9105

  Query Match             62.5%;  Score 35;  DB 11;  Length 258;
  Best Local Similarity   75.0%;  Pred. No. 81;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTL 8
              |  |||||
Db        150 CTDCDSTL 157


RESULT 34
US-11-188-298-9840
; Sequence 9840, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 9840
;   LENGTH: 342
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
US-11-188-298-9840

  Query Match             62.5%;  Score 35;  DB 11;  Length 342;
  Best Local Similarity   62.5%;  Pred. No. 1e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTL 8
              || | ||:
Db         30 CCNCRSTV 37


RESULT 35
US-11-108-528-78
; Sequence 78, Application US/11108528
; Publication No. US20050261189A1
; GENERAL INFORMATION:
;  APPLICANT: Larsen, Glenn
;  APPLICANT:  Marvin, Martha
;  APPLICANT:  Li, Dean Y.
;  APPLICANT:  Wang, Elizabeth
;  APPLICANT:  Chen, C. M. Amy
;  APPLICANT:  Shamah, Steven M.
;  TITLE OF INVENTION: METHODS OF PROMOTING CARDIAC CELL
;  TITLE OF INVENTION:  PROLIFERATION
;  FILE REFERENCE: HYDR-P01-041
;  CURRENT APPLICATION NUMBER: US/11/108,528
;  CURRENT FILING DATE:  2005-04-18
;  PRIOR APPLICATION NUMBER: US 60/563,137
;  PRIOR FILING DATE: 2004-04-16
;  PRIOR APPLICATION NUMBER: US 60/598,368
;  PRIOR FILING DATE: 2004-08-02
;  NUMBER OF SEQ ID NOS: 86
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 78
;   LENGTH: 355
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-108-528-78

  Query Match             62.5%;  Score 35;  DB 11;  Length 355;
  Best Local Similarity   62.5%;  Pred. No. 1.1e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CKCDSTLR 9
              | ||:||:
Db        137 CSCDTTLQ 144


RESULT 36
US-11-108-528-76
; Sequence 76, Application US/11108528
; Publication No. US20050261189A1
; GENERAL INFORMATION:
;  APPLICANT: Larsen, Glenn
;  APPLICANT:  Marvin, Martha
;  APPLICANT:  Li, Dean Y.
;  APPLICANT:  Wang, Elizabeth
;  APPLICANT:  Chen, C. M. Amy
;  APPLICANT:  Shamah, Steven M.
;  TITLE OF INVENTION: METHODS OF PROMOTING CARDIAC CELL
;  TITLE OF INVENTION:  PROLIFERATION
;  FILE REFERENCE: HYDR-P01-041
;  CURRENT APPLICATION NUMBER: US/11/108,528
;  CURRENT FILING DATE:  2005-04-18
;  PRIOR APPLICATION NUMBER: US 60/563,137
;  PRIOR FILING DATE: 2004-04-16
;  PRIOR APPLICATION NUMBER: US 60/598,368
;  PRIOR FILING DATE: 2004-08-02
;  NUMBER OF SEQ ID NOS: 86
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 76
;   LENGTH: 365
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-108-528-76

  Query Match             62.5%;  Score 35;  DB 11;  Length 365;
  Best Local Similarity   62.5%;  Pred. No. 1.1e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CKCDSTLR 9
              | ||:||:
Db        147 CSCDTTLQ 154


RESULT 37
US-11-124-368A-173
; Sequence 173, Application US/11124368A
; Publication No. US20050287559A1
; GENERAL INFORMATION:
;  APPLICANT: Michele Cargill
;  APPLICANT:  James J. Devlin
;  APPLICANT:  May Luke
;  TITLE OF INVENTION: Genetic Polymorphisms Associated with
;  TITLE OF INVENTION:  Vascular Diseases, Methods of Detection and Uses Thereof
;  FILE REFERENCE: CL001524
;  CURRENT APPLICATION NUMBER: US/11/124,368A
;  CURRENT FILING DATE:  2005-05-09
;  PRIOR APPLICATION NUMBER: US 60/568,845
;  PRIOR FILING DATE: 2004-05-07
;  PRIOR APPLICATION NUMBER: US 60/625,936
;  PRIOR FILING DATE: 2004-11-09
;  NUMBER OF SEQ ID NOS: 21112
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 173
;   LENGTH: 382
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-124-368A-173

  Query Match             62.5%;  Score 35;  DB 11;  Length 382;
  Best Local Similarity   83.3%;  Pred. No. 1.1e+02;
  Matches    5;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;
```

```
Qy          1 CCKCDS 6
              |||| |
Db        328 CCKCPS 333
```

RESULT 38
US-11-124-368A-174
; Sequence 174, Application US/11124368A
; Publication No. US20050287559A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: James J. Devlin
; APPLICANT: May Luke
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001524
; CURRENT APPLICATION NUMBER: US/11/124,368A
; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,845
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/625,936
; PRIOR FILING DATE: 2004-11-09
; NUMBER OF SEQ ID NOS: 21112
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 174
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-124-368A-174

Query Match 62.5%; Score 35; DB 11; Length 382;
Best Local Similarity 83.3%; Pred. No. 1.1e+02;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 CCKCDS 6
              |||| |
Db        328 CCKCPS 333
```

RESULT 39
US-11-127-877-58
; Sequence 58, Application US/11127877
; Publication No. US20050287565A1
; GENERAL INFORMATION:
; APPLICANT: Merchiers, Pascal G.
; APPLICANT: Hoffmann, Marcel
; APPLICANT: Spittaels, Koenraad F. F.
; APPLICANT: Laenen, Wendy
; TITLE OF INVENTION: Methods, Compositions and Compound Assays For Inhibiting
; TITLE OF INVENTION: Amyloid-Beta Protein Production
; FILE REFERENCE: P27,800-B USA
; CURRENT APPLICATION NUMBER: US/11/127,877
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: 60/570,352
; PRIOR FILING DATE: 2004-05-12
; PRIOR APPLICATION NUMBER: 60/603,948
; PRIOR FILING DATE: 2004-08-24
; NUMBER OF SEQ ID NOS: 590
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 58
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-127-877-58

Query Match 62.5%; Score 35; DB 11; Length 382;
Best Local Similarity 83.3%; Pred. No. 1.1e+02;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 CCKCDS 6
              |||| |
Db        328 CCKCPS 333
```

RESULT 40
US-10-506-454-716
; Sequence 716, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
; APPLICANT: Slesarev, Alexi I
; APPLICANT: Mezhevaya, Katja V
; APPLICANT: Polushin, Nikolai N
; APPLICANT: Shcherbinina, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Malykh, Andrei G
; APPLICANT: Kozyavkin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
; TITLE OF INVENTION: Methanopyrus Kandleri AV19 and Monophyly of Archael Methanogens
; TITLE OF INVENTION: and Methods of Use Thereof
; FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; CURRENT FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 716
; LENGTH: 815
; TYPE: PRT
; ORGANISM: Methanopyrus kandleri
US-10-506-454-716

Query Match 62.5%; Score 35; DB 9; Length 815;
Best Local Similarity 55.6%; Pred. No. 2e+02;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

```
Qy          1 CCKCDSTLR 9
              || |: | |
Db         96 CCACEVTTR 104
```

RESULT 41
US-11-090-439-42
; Sequence 42, Application US/11090439
; Publication No. US20050266442A1
; GENERAL INFORMATION:
; APPLICANT: Squillace, Rachel
; APPLICANT: Weiner, Michael P.
; TITLE OF INVENTION: Immortalized Human Tuberous Sclerosis Null
; TITLE OF INVENTION: Angiomyolipoma Cell and Method of Use Thereof
; FILE REFERENCE: 24318-502
; CURRENT APPLICATION NUMBER: US/11/090,439
; CURRENT FILING DATE: 2005-03-25
; PRIOR APPLICATION NUMBER: 60/556,344
; PRIOR FILING DATE: 2004-03-25
; NUMBER OF SEQ ID NOS: 62
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 42
; LENGTH: 1302
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-090-439-42

Query Match 62.5%; Score 35; DB 11; Length 1302;
Best Local Similarity 83.3%; Pred. No. 3e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```
Qy          2 CKCDST 7
              |:||||
Db       1011 CRCDST 1016
```

RESULT 42
US-11-096-568A-6627

```
; Sequence 6627, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 6627
;   LENGTH: 315
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(315)
;   OTHER INFORMATION: Ceres Seq. ID no. 14316066
US-11-096-568A-6627

  Query Match             60.7%;  Score 34;  DB 11;  Length 315;
  Best Local Similarity   71.4%;  Pred. No. 1.4e+02;
  Matches    5;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCKCDST 7
              || | ||
Db        118 CCVCQST 124


RESULT 43
US-11-096-568A-6626
; Sequence 6626, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 6626
;   LENGTH: 323
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(323)
;   OTHER INFORMATION: Ceres Seq. ID no. 14316065
US-11-096-568A-6626

  Query Match             60.7%;  Score 34;  DB 11;  Length 323;
  Best Local Similarity   71.4%;  Pred. No. 1.4e+02;
  Matches    5;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCKCDST 7
              || | ||
Db        126 CCVCQST 132


RESULT 44
US-11-055-822-154
; Sequence 154, Application US/11055822
; Publication No. US20050260707A1
; GENERAL INFORMATION:
;  APPLICANT: Pompejus, Markus
;  APPLICANT:  Kroger, Burkhard
;  APPLICANT:  Schroder, Hartwig
;  APPLICANT:  Zelder, Oskar
;  APPLICANT:  Haberhauer, Gregor
;  TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING
;  TITLE OF INVENTION:  METABOLIC PATHWAY PROTEINS
;  FILE REFERENCE: BGI-121CPCN
;  CURRENT APPLICATION NUMBER: US/11/055,822
;  CURRENT FILING DATE:  2005-02-11
;  PRIOR APPLICATION NUMBER: 09/606,740
;  PRIOR FILING DATE: 2000-06-23
;  PRIOR APPLICATION NUMBER: 60/141,031
;  PRIOR FILING DATE: 1999-06-25
;  PRIOR APPLICATION NUMBER: 60/142,101
;  PRIOR FILING DATE: 1999-07-02
;  PRIOR APPLICATION NUMBER: 60/148,613
;  PRIOR FILING DATE: 1999-08-12
;  PRIOR APPLICATION NUMBER: 60/187,970
;  PRIOR FILING DATE: 2000-03-09
;  PRIOR APPLICATION NUMBER: DE 19930476.9
;  PRIOR FILING DATE: 1999-07-01
;  PRIOR APPLICATION NUMBER: DE 19931415.2
;  PRIOR FILING DATE: 1999-07-08
;  PRIOR APPLICATION NUMBER: DE 19931418.7
;  PRIOR FILING DATE: 1999-07-08
;  PRIOR APPLICATION NUMBER: DE 19931419.5
;  PRIOR FILING DATE: 1999-07-08
;  PRIOR APPLICATION NUMBER: DE 19931420.9
;  PRIOR FILING DATE: 1999-07-08
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 1158
; SEQ ID NO 154
;   LENGTH: 433
;   TYPE: PRT
;   ORGANISM: Corynebacterium glutamicum
US-11-055-822-154

  Query Match             60.7%;  Score 34;  DB 11;  Length 433;
  Best Local Similarity   75.0%;  Pred. No. 1.8e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTL 8
              |  |||||
Db        207 CFDCDSTL 214


RESULT 45
US-10-469-469-162
; Sequence 162, Application US/10469469
; Publication No. US20060079493A1
; GENERAL INFORMATION:
;  APPLICANT: FRITZ, LAWRENCE C.
;  APPLICANT:  BURROWS, FRANCIS J.
;  TITLE OF INVENTION: METHODS FOR TREATING GENETICALLY-DEFINED PROLIFERATIVE
;  TITLE OF INVENTION:  DISORDERS WITH HSP90 INHIBITORS
;  FILE REFERENCE: CON-0010-USN
;  CURRENT APPLICATION NUMBER: US/10/469,469
;  CURRENT FILING DATE:  2003-08-27
;  PRIOR APPLICATION NUMBER: PCT/US02/06518
;  PRIOR FILING DATE: 2002-03-01
;  PRIOR APPLICATION NUMBER: 60/272,751
;  PRIOR FILING DATE: 2001-03-01
;  NUMBER OF SEQ ID NOS: 330
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 162
;   LENGTH: 585
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-469-469-162

  Query Match             60.7%;  Score 34;  DB 9;  Length 585;
  Best Local Similarity   55.6%;  Pred. No. 2.3e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||| | ::
Db        521 CCKCLSEMQ 529


RESULT 46
```

```
US-10-469-469-165
; Sequence 165, Application US/10469469
; Publication No. US20060079493A1
; GENERAL INFORMATION:
;  APPLICANT: FRITZ, LAWRENCE C.
;  APPLICANT:  BURROWS, FRANCIS J.
;  TITLE OF INVENTION: METHODS FOR TREATING GENETICALLY-DEFINED PROLIFERATIVE
;  TITLE OF INVENTION:  DISORDERS WITH HSP90 INHIBITORS
;  FILE REFERENCE: CON-0010-USN
;  CURRENT APPLICATION NUMBER: US/10/469,469
;  CURRENT FILING DATE:  2003-08-27
;  PRIOR APPLICATION NUMBER: PCT/US02/06518
;  PRIOR FILING DATE: 2002-03-01
;  PRIOR APPLICATION NUMBER: 60/272,751
;  PRIOR FILING DATE: 2001-03-01
;  NUMBER OF SEQ ID NOS: 330
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 165
;   LENGTH: 585
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-469-469-165

  Query Match             60.7%;  Score 34;  DB 9;  Length 585;
  Best Local Similarity   55.6%;  Pred. No. 2.3e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCKCDSTLR 9
              |||| | ::
Db        521 CCKCLSEMQ 529


RESULT 47
US-11-052-554A-89
; Sequence 89, Application US/11052554A
; Publication No. US20050288866A1
; GENERAL INFORMATION:
;  APPLICANT: Sachdeva, et al.
;  TITLE OF INVENTION: COMPUTATIONAL METHOD FOR IDENTIFYING ADHESIN AND ADHESIN-LIKE
;  TITLE OF INVENTION:  PROTEINS OF THERAPEUTIC POTENTIAL
;  FILE REFERENCE: 30853/40359A
;  CURRENT APPLICATION NUMBER: US/11/052,554A
;  CURRENT FILING DATE:  2005-02-07
;  PRIOR APPLICATION NUMBER: US 60/589,227
;  PRIOR FILING DATE: 2004-07-20
;  PRIOR APPLICATION NUMBER: IN 173/DEL/2004
;  PRIOR FILING DATE: 2004-02-06
;  NUMBER OF SEQ ID NOS: 763
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 89
;   LENGTH: 1010
;   TYPE: PRT
;   ORGANISM: Haemophilus influenzae Rd
US-11-052-554A-89

  Query Match             60.7%;  Score 34;  DB 11;  Length 1010;
  Best Local Similarity   71.4%;  Pred. No. 3.5e+02;
  Matches    5;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CCKCDST 7
              || | ||
Db         33 CCLCSST 39


RESULT 48
US-10-922-232B-63
; Sequence 63, Application US/10922232B
; Publication No. US20060024668A1
; GENERAL INFORMATION:
;  APPLICANT: van der Hoek, Cornelia
;  TITLE OF INVENTION: Coronavirus, nucleic acid, protein, and methods for the generatic
;  TITLE OF INVENTION:  vaccine, medicaments and diagnostics.
;  FILE REFERENCE: 294-226
;  CURRENT APPLICATION NUMBER: US/10/922,232B
;  CURRENT FILING DATE:  2004-08-18
;  PRIOR APPLICATION NUMBER: US 60/535,002
;  PRIOR FILING DATE: 2004-01-07
;  PRIOR APPLICATION NUMBER: EP 03077602.5
;  PRIOR FILING DATE: 2003-08-18
;  PRIOR APPLICATION NUMBER: EP 04075050.7
;  PRIOR FILING DATE: 2004-01-07
;  NUMBER OF SEQ ID NOS: 66
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 63
;   LENGTH: 1356
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic sequence.  Spike protein/S-gene.
US-10-922-232B-63

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; Sequence 4045, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
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;   LENGTH: 134
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(134)
;   OTHER INFORMATION: Ceres Seq. ID no. 15221367
US-11-096-568A-4045

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RESULT 50
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; Sequence 2, Application US/11225903
; Publication No. US20060059582A1
; GENERAL INFORMATION:
;  APPLICANT: Jankowski, Boris
;  APPLICANT:  Feldmann, Kenneth A.
;  APPLICANT:  Bobzin, Steven Craig
;  TITLE OF INVENTION: Modulation of Amino Acid and Sugar Content in Plants
;  FILE REFERENCE: 11696-137001/WO1
;  CURRENT APPLICATION NUMBER: US/11/225,903
;  CURRENT FILING DATE:  2005-09-13
;  PRIOR APPLICATION NUMBER: 60/610,356
;  PRIOR FILING DATE: 2004-9-14
;  NUMBER OF SEQ ID NOS: 28
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; SEQ ID NO 2
;   LENGTH: 176
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (117)..(157)
;   OTHER INFORMATION: Pfam Name: zf-AN1; Pfam Description: AN1-like Zinc finger
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (19)..(43)
;   OTHER INFORMATION: Pfam Name: zf-A20; Pfam Description: A20-like zinc finger
US-11-225-903-2

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Db        131 CKCGSTI 137


Search completed: May  5, 2006, 08:40:34
Job time : 9.4 secs
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OM protein - protein search, using sw model

Run on: May 5, 2006, 04:48:55 ; Search time 20.7 Seconds
(without alignments)
35.946 Million cell updates/sec

Title: US-08-170-344-62
Perfect score: 51
Sequence: 1 KCDSTLRLC 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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| 197 | 30 | 58.8 | 45 | 2 | US-10-178-213-150 | Sequence 150, App |
| 198 | 30 | 58.8 | 45 | 2 | US-10-178-213-153 | Sequence 153, App |
| 199 | 30 | 58.8 | 45 | 2 | US-10-178-213-156 | Sequence 156, App |
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| 201 | 30 | 58.8 | 45 | 2 | US-10-178-213-162 | Sequence 162, App |
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| 204 | 30 | 58.8 | 45 | 2 | US-10-178-213-171 | Sequence 171, App |
| 205 | 30 | 58.8 | 45 | 2 | US-10-178-213-180 | Sequence 180, App |
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| 212 | 30 | 58.8 | 45 | 2 | US-10-178-213-204 | Sequence 204, App |
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| 227 | 30 | 58.8 | 72 | 2 | US-10-178-213-176 | Sequence 176, App |
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| 232 | 30 | 58.8 | 72 | 2 | US-10-178-213-197 | Sequence 197, App |
| 233 | 30 | 58.8 | 72 | 2 | US-10-178-213-200 | Sequence 200, App |
| 234 | 30 | 58.8 | 72 | 2 | US-10-178-213-203 | Sequence 203, App |
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| 459 | 28 | 54.9 | 30 | 2 | US-08-487-072A-109 | Sequence 109, App |
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| 483 | 28 | 54.9 | 109 | 2 | US-09-973-278-634 | Sequence 634, App |
| 484 | 28 | 54.9 | 110 | 2 | US-09-270-767-60458 | Sequence 60458, A |
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| 488 | 28 | 54.9 | 129 | 1 | US-08-470-299-21 | Sequence 21, Appl |
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| 495 | 28 | 54.9 | 129 | 2 | US-08-765-012A-19 | Sequence 19, Appl |
| 496 | 28 | 54.9 | 129 | 2 | US-08-765-012A-20 | Sequence 20, Appl |
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| 512 | 28 | 54.9 | 131 | 2 | US-08-765-012A-9 | Sequence 9, Appli |
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| 522 | 28 | 54.9 | 153 | 2 | US-10-295-723-112 | Sequence 112, App |
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| 662 | 27 | 52.9 | 17 | 2 | US-08-467-344A-416 | Sequence 416, App |
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| 668 | 27 | 52.9 | 44 | 2 | US-09-657-276-1406 | Sequence 1406, Ap |
| 669 | 27 | 52.9 | 44 | 2 | US-10-178-213-102 | Sequence 102, App |
| 670 | 27 | 52.9 | 44 | 2 | US-10-178-213-108 | Sequence 108, App |
| 671 | 27 | 52.9 | 44 | 2 | US-10-004-860-1196 | Sequence 1196, Ap |
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| 691 | 27 | 52.9 | 69 | 2 | US-10-178-213-107 | Sequence 107, App |
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| 962 | 27 | 52.9 | 636 | 2 | US-07-757-342D-7 | Sequence 7, Appli |
| 963 | 27 | 52.9 | 636 | 2 | US-09-461-657B-7 | Sequence 7, Appli |
| 964 | 27 | 52.9 | 637 | 2 | US-09-949-016-11538 | Sequence 11538, A |
| 965 | 27 | 52.9 | 637 | 2 | US-09-949-016-11539 | Sequence 11539, A |
| 966 | 27 | 52.9 | 638 | 2 | US-09-902-540-11575 | Sequence 11575, A |
| 967 | 27 | 52.9 | 640 | 2 | US-09-270-767-44307 | Sequence 44307, A |
| 968 | 27 | 52.9 | 642 | 2 | US-09-337-307A-3 | Sequence 3, Appli |
| 969 | 27 | 52.9 | 642 | 2 | US-09-337-307A-4 | Sequence 4, Appli |
| 970 | 27 | 52.9 | 651 | 2 | US-09-949-016-7899 | Sequence 7899, Ap |
| 971 | 27 | 52.9 | 672 | 2 | US-09-949-016-9511 | Sequence 9511, Ap |
| 972 | 27 | 52.9 | 674 | 2 | US-07-757-342D-10 | Sequence 10, Appl |
| 973 | 27 | 52.9 | 674 | 2 | US-09-461-657B-10 | Sequence 10, Appl |
| 974 | 27 | 52.9 | 675 | 6 | 5258288-1 | Patent No. 5258288 |
| 975 | 27 | 52.9 | 687 | 1 | US-08-449-645A-29 | Sequence 29, Appl |
| 976 | 27 | 52.9 | 687 | 1 | US-08-702-367A-29 | Sequence 29, Appl |

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|---|---|---|---|---|---|---|
| 977 | 27 | 52.9 | 692 | 2 | US-09-538-092-632 | Sequence 632, App |
| 978 | 27 | 52.9 | 699 | 2 | US-07-757-342D-2 | Sequence 2, Appli |
| 979 | 27 | 52.9 | 699 | 2 | US-09-461-657B-2 | Sequence 2, Appli |
| 980 | 27 | 52.9 | 700 | 2 | US-07-757-342D-3 | Sequence 3, Appli |
| 981 | 27 | 52.9 | 700 | 2 | US-09-461-657B-3 | Sequence 3, Appli |
| 982 | 27 | 52.9 | 726 | 2 | US-09-392-714-21 | Sequence 21, Appl |
| 983 | 27 | 52.9 | 727 | 2 | US-09-252-991A-18812 | Sequence 18812, A |
| 984 | 27 | 52.9 | 729 | 2 | US-09-625-188-20 | Sequence 20, Appl |
| 985 | 27 | 52.9 | 731 | 2 | US-09-949-016-9763 | Sequence 9763, Ap |
| 986 | 27 | 52.9 | 746 | 2 | US-09-949-016-11494 | Sequence 11494, A |
| 987 | 27 | 52.9 | 753 | 1 | US-08-712-241-2 | Sequence 2, Appli |
| 988 | 27 | 52.9 | 753 | 1 | US-08-712-241-3 | Sequence 3, Appli |
| 989 | 27 | 52.9 | 753 | 2 | US-08-026-143B-3 | Sequence 3, Appli |
| 990 | 27 | 52.9 | 753 | 2 | US-09-949-002-299 | Sequence 299, App |
| 991 | 27 | 52.9 | 753 | 4 | PCT-US92-10621-3 | Sequence 3, Appli |
| 992 | 27 | 52.9 | 753 | 4 | PCT-US94-02233-3 | Sequence 3, Appli |
| 993 | 27 | 52.9 | 754 | 2 | US-09-949-002-556 | Sequence 556, App |
| 994 | 27 | 52.9 | 760 | 2 | US-09-248-796A-17568 | Sequence 17568, A |
| 995 | 27 | 52.9 | 781 | 2 | US-09-949-016-6959 | Sequence 6959, Ap |
| 996 | 27 | 52.9 | 790 | 2 | US-09-949-016-7017 | Sequence 7017, Ap |
| 997 | 27 | 52.9 | 790 | 2 | US-09-949-016-8169 | Sequence 8169, Ap |
| 998 | 27 | 52.9 | 790 | 2 | US-09-949-016-8170 | Sequence 8170, Ap |
| 999 | 27 | 52.9 | 795 | 2 | US-07-741-453A-55 | Sequence 55, Appl |
| 1000 | 27 | 52.9 | 808 | 2 | US-10-104-047-3401 | Sequence 3401, Ap |

ALIGNMENTS

```
RESULT 1
US-08-075-541D-38
; Sequence 38, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  38:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  19 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-38

  Query Match             100.0%;  Score 51;  DB 2;  Length 19;
  Best Local Similarity   100.0%;  Pred. No. 0.013;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db          7 KCDSTLRLC 15


RESULT 2
US-09-000-003A-8
; Sequence 8, Application US/09000003A
; Patent No. 6652850
;  GENERAL INFORMATION:
;       APPLICANT: Philip, Ramila
;                  Lebkowski, Jane S.
;       TITLE OF INVENTION: ADENO-ASSOCIATED VIRAL LIPOSOMES AND
;                           THEIR USE IN TRANSFECTING DENDRITIC CELLS TO STIMULATE
;                           SPECIFIC IMMUNITY
;       NUMBER OF SEQUENCES: 30
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: Alexis Barron, Esq.
;            STREET: Suite 2600 Aramark Tower, 1101 Market Street
;            CITY: Philadelphia
;            STATE: PA
;            COUNTRY: United States of America
;            ZIP: 19107
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.25
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/000,003A
;            FILING DATE: 15-Jun-1998
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: PCT/US96/12012
;            FILING DATE: 19-JUL-1996
;            APPLICATION NUMBER: US 60/001,312
;            FILING DATE: 21-JUL-1995
;            APPLICATION NUMBER: US 60/007,184
;            FILING DATE: 01-NOV-1995
;            APPLICATION NUMBER: US 08/566,286
;            FILING DATE: 01-DEC-1995
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Barron, Alexis
;            REGISTRATION NUMBER: 22,702
;            REFERENCE/DOCKET NUMBER: 20,846-K USA
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (215) 923-4466
;            TELEFAX: (215) 923-2189
;  INFORMATION FOR SEQ ID NO: 8:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 19 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: peptide
;       FRAGMENT TYPE: internal
;       SEQUENCE DESCRIPTION: SEQ ID NO: 8:
US-09-000-003A-8

  Query Match             100.0%;  Score 51;  DB 2;  Length 19;
  Best Local Similarity   100.0%;  Pred. No. 0.013;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
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Db          1 KCDSTLRLC 9


RESULT 3
US-09-405-986A-9
; Sequence 9, Application US/09405986A
; Patent No. 6676946
; GENERAL INFORMATION:
;  APPLICANT: Bay, Sylvie
;  APPLICANT:  Cantacuzene, Daniele
;  APPLICANT:  Leclerc, Claude
;  APPLICANT:  Lo-Man, Richard
;  TITLE OF INVENTION: MULTIPLE ANTIGEN GLYCOPEPTIDE CARBOHYDRATE,
;  TITLE OF INVENTION:  VACCINE COMPRISING THE SAME AND USE THEREOF
;  FILE REFERENCE: 102.166A-1
;  CURRENT APPLICATION NUMBER: US/09/405,986A
;  CURRENT FILING DATE:  2002-06-11
;  PRIOR APPLICATION NUMBER: US 09/049,847
;  PRIOR FILING DATE: 1998-03-27
;  PRIOR APPLICATION NUMBER: US 60/041,726
;  PRIOR FILING DATE: 1997-03-27
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
;   LENGTH: 19
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   OTHER INFORMATION: HPV 16 E7 PEPTIDE
US-09-405-986A-9

  Query Match             100.0%;  Score 51;  DB 2;  Length 19;
  Best Local Similarity   100.0%;  Pred. No. 0.013;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db          1 KCDSTLRLC 9


RESULT 4
US-09-980-177A-74
; Sequence 74, Application US/09980177A
; Patent No. 6838084
; GENERAL INFORMATION:
;  APPLICANT: Jochmus, Ingrid
;  APPLICANT:  Nieland, John
;  TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
;  TITLE OF INVENTION:  Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
;  TITLE OF INVENTION:  Therapy
;  FILE REFERENCE: 50125/036001
;  CURRENT APPLICATION NUMBER: US/09/980,177A
;  CURRENT FILING DATE:  2001-11-29
;  PRIOR APPLICATION NUMBER: PCT/EP00/05006
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: DE 19925199.1
;  PRIOR FILING DATE: 1999-06-01
;  NUMBER OF SEQ ID NOS: 77
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 74
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-980-177A-74

  Query Match             100.0%;  Score 51;  DB 2;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.013;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db          5 KCDSTLRLC 13


RESULT 5
US-08-075-541D-47
; Sequence 47, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  47:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  25 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-47

  Query Match             100.0%;  Score 51;  DB 2;  Length 25;
  Best Local Similarity   100.0%;  Pred. No. 0.016;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         11 KCDSTLRLC 19


RESULT 6
US-08-934-915-52
; Sequence 52, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
```

```
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  52:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  30 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-52

  Query Match             100.0%;  Score 51;  DB 1;  Length 30;
  Best Local Similarity   100.0%;  Pred. No. 0.02;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         17 KCDSTLRLC 25


RESULT 7
US-08-934-915-53
; Sequence 53, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  53:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  30 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-53

  Query Match             100.0%;  Score 51;  DB 1;  Length 30;
  Best Local Similarity   100.0%;  Pred. No. 0.02;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db          3 KCDSTLRLC 11


RESULT 8
US-09-486-394-3
; Sequence 3, Application US/09486394
; Patent No. 6478749
; GENERAL INFORMATION:
;  APPLICANT: Hopfl, Reinhard
;  TITLE OF INVENTION: Diagnostic Kit for Skin Tests, and Method
;  FILE REFERENCE: 032929-001
;  CURRENT APPLICATION NUMBER: US/09/486,394
;  CURRENT FILING DATE:  2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/04773
;  PRIOR FILING DATE: 1998-07-30
;  PRIOR APPLICATION NUMBER: DE 197 37 409.3
;  PRIOR FILING DATE: 1997-08-27
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 30
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(30)
;   OTHER INFORMATION: E7 peptide.
US-09-486-394-3

  Query Match             100.0%;  Score 51;  DB 2;  Length 30;
  Best Local Similarity   100.0%;  Pred. No. 0.02;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         20 KCDSTLRLC 28


RESULT 9
US-08-406-248-6
; Sequence 6, Application US/08406248
; Patent No. 5736318
;  GENERAL INFORMATION:
;    APPLICANT:  Munger, Karl
;    APPLICANT:  Jones, D. Leanne
;    TITLE OF INVENTION:  METHOD AND KIT FOR EVALUATING
;    TITLE OF INVENTION:  TRANSFORMED CELLS
;    NUMBER OF SEQUENCES:  6
```

```
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Ann-Louise Kerner, Ph.D., Lappin & Kusmer
;      STREET:  200 State Street
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/406,248
;      FILING DATE:
;      CLASSIFICATION:  436
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  McDaniels, Patricia A.
;      REGISTRATION NUMBER:  33,194
;      REFERENCE/DOCKET NUMBER:  HAZ-011
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-330-1300
;      TELEFAX:  617-330-1311
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  98 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-406-248-6

  Query Match             100.0%;  Score 51;  DB 1;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.062;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 10
US-08-075-541D-42
; Sequence 42, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  42:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  98 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-42

  Query Match             100.0%;  Score 51;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.062;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 11
US-09-382-616A-1
; Sequence 1, Application US/09382616A
; Patent No. 6200746
; GENERAL INFORMATION:
;  APPLICANT:  Fisher, Christopher
;  APPLICANT:  He, Wanxia
;  TITLE OF INVENTION:  Methods to Identify Anti-Viral Agents
;  FILE REFERENCE:  28341/6216
;  CURRENT APPLICATION NUMBER: US/09/382,616A
;  CURRENT FILING DATE:  1999-08-25
;  PRIOR APPLICATION NUMBER:  09/382,616
;  PRIOR FILING DATE:  1999-08-25
;  NUMBER OF SEQ ID NOS:  43
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Papillomavirus sylvilagi
US-09-382-616A-1

  Query Match             100.0%;  Score 51;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.062;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 12
US-08-944-368A-4
; Sequence 4, Application US/08944368A
; Patent No. 6228368
;  GENERAL INFORMATION:
;    APPLICANT:  Gissman, et al.
;    TITLE OF INVENTION:  Papilloma Virus Capsomere Vaccine
;    TITLE OF INVENTION:  Formulations and Methods of Use
;    NUMBER OF SEQUENCES:  28
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray &
;      ADDRESSEE:  Borun
;      STREET:  233 South Wacker Drive, 6300 Sears Tower
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  United States of America
;      ZIP:  60606-6402
;    COMPUTER READABLE FORM:
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;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/944,368A
;      FILING DATE:
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Williams Jr., Joseph A.
;      REGISTRATION NUMBER:  38,659
;      REFERENCE/DOCKET NUMBER:  27013/34028
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  312-474-6300
;      TELEFAX:  312-474-0448
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  98 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-944-368A-4

  Query Match             100.0%;  Score 51;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.062;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 13
US-09-820-764-4
; Sequence 4, Application US/09820764
; Patent No. 6352696
;  GENERAL INFORMATION:
;       APPLICANT: BURGER, Alexander
;                  HALLEK, Michael
;       TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                           FORMULATIONS AND METHODS OF USE
;       NUMBER OF SEQUENCES: 28
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: FOLEY & LARDNER
;            STREET: 3000 K Street, N.W.
;            CITY: Washington
;            STATE: D.C.
;            COUNTRY: U.S.A.
;            ZIP: 20007-5109
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.30
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/820,764
;            FILING DATE: 30-Mar-2001
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: US 09/026,896
;            FILING DATE: 20-FEB-1998
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Sandercock, Colin G.
;            REGISTRATION NUMBER: 31,298
;            REFERENCE/DOCKET NUMBER: 37067/102
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (202) 672-5300
;            TELEFAX: (202) 672-5399
;  INFORMATION FOR SEQ ID NO: 4:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 98 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-764-4

  Query Match             100.0%;  Score 51;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.062;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 14
US-09-613-303-8
; Sequence 8, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
;  APPLICANT:  Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION:  INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE:  12071/002001
;  CURRENT APPLICATION NUMBER: US/09/613,303
;  CURRENT FILING DATE:  2000-07-10
;  PRIOR APPLICATION NUMBER:  US 60/143,757
;  PRIOR FILING DATE:  1999-07-08
;  NUMBER OF SEQ ID NOS:  55
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-09-613-303-8

  Query Match             100.0%;  Score 51;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.062;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 15
US-09-566-420-19
; Sequence 19, Application US/09566420
; Patent No. 6500641
; GENERAL INFORMATION:
;  APPLICANT:  CHEN, SI-YI AND ZHAOYANG, YOU
;  TITLE OF INVENTION:  METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
;  TITLE OF INVENTION:  IMMUNE RESPONSE
;  FILE REFERENCE:  TBA
;  CURRENT APPLICATION NUMBER: US/09/566,420
;  CURRENT FILING DATE:  2000-05-05
;  PRIOR APPLICATION NUMBER:  60/132,752
;  PRIOR FILING DATE:  1999-05-06
;  PRIOR APPLICATION NUMBER:  60/132,750
;  PRIOR FILING DATE:  1999-05-06
;  NUMBER OF SEQ ID NOS:  19
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 19
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type E7
US-09-566-420-19

  Query Match             100.0%;  Score 51;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.062;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
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Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 16
US-09-986-118A-4
; Sequence 4, Application US/09986118A
; Patent No. 6562351
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                            FORMULATIONS AND METHODS OF USE
;        NUMBER OF SEQUENCES: 28
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: FOLEY & LARDNER
;             STREET: 3000 K Street, N.W.
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: U.S.A.
;             ZIP: 20007-5109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/986,118A
;             FILING DATE: 07-No. 6562351-2001
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US 09/026,896
;             FILING DATE: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Sandercock, Colin G.
;             REGISTRATION NUMBER: 31,298
;             REFERENCE/DOCKET NUMBER: 37067/102
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 672-5300
;             TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 98 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

  Query Match             100.0%;  Score 51;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.062;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 17
US-09-728-466-1
; Sequence 1, Application US/09728466
; Patent No. 6641994
; GENERAL INFORMATION:
;  APPLICANT:  Fisher, Christopher
;  APPLICANT:  He, Wanxia
;  TITLE OF INVENTION:  Methods to Identify Anti-Viral Agents
;  FILE REFERENCE:  28341/6216
;  CURRENT APPLICATION NUMBER: US/09/728,466
;  CURRENT FILING DATE:  2000-12-01
;  PRIOR APPLICATION NUMBER:  09/382,616
;  PRIOR FILING DATE:  1999-08-25
;  NUMBER OF SEQ ID NOS:  43
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Papillomavirus sylvilagi
US-09-728-466-1

  Query Match             100.0%;  Score 51;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.062;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 18
US-09-824-017-4
; Sequence 4, Application US/09824017
; Patent No. 6649167
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                            FORMULATIONS AND METHODS OF USE
;        NUMBER OF SEQUENCES: 28
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: FOLEY & LARDNER
;             STREET: 3000 K Street, N.W.
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: U.S.A.
;             ZIP: 20007-5109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/824,017
;             FILING DATE: 03-Apr-2001
;             CLASSIFICATION: 424
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 09/026,896
;             FILING DATE: 1998-02-20
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Sandercock, Colin G.
;             REGISTRATION NUMBER: 31,298
;             REFERENCE/DOCKET NUMBER: 37067/102
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 672-5300
;             TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 98 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-824-017-4

  Query Match             100.0%;  Score 51;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.062;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 19
US-10-267-311-8
; Sequence 8, Application US/10267311
```

```
; Patent No. 6657055
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-8

  Query Match             100.0%;  Score 51;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.062;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 20
US-10-201-764-19
; Sequence 19, Application US/10201764
; Patent No. 6716623
; GENERAL INFORMATION:
;  APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
;  TITLE OF INVENTION:  IMMUNE RESPONSE
;  FILE REFERENCE: TBA
;  CURRENT APPLICATION NUMBER: US/10/201,764
;  CURRENT FILING DATE:  2002-07-22
;  PRIOR APPLICATION NUMBER: US/09/566,420
;  PRIOR FILING DATE: 2000-05-05
;  PRIOR APPLICATION NUMBER: 60/132,752
;  PRIOR FILING DATE: 1999-05-06
;  PRIOR APPLICATION NUMBER: 60/132,750
;  PRIOR FILING DATE: 1999-05-06
;  NUMBER OF SEQ ID NOS: 19
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type E7
US-10-201-764-19

  Query Match             100.0%;  Score 51;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.062;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 21
US-09-637-746-3
; Sequence 3, Application US/09637746
; Patent No. 6727079
; GENERAL INFORMATION:
;  APPLICANT: Thorgeirsson, Snorri S.
;  APPLICANT:  Woitach, Joseph T.
;  APPLICANT:  Zhang, Minghuang
;  TITLE OF INVENTION: cDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS PROTEIN
;  TITLE OF INVENTION:  PRODUCT
;  FILE REFERENCE: 11613.29USW1
;  CURRENT APPLICATION NUMBER: US/09/637,746
;  CURRENT FILING DATE:  2000-08-11
;  PRIOR APPLICATION NUMBER: PCT/US99/04142
;  PRIOR FILING DATE: 1999-02-25
;  PRIOR APPLICATION NUMBER: US 60/079,567
;  PRIOR FILING DATE: 1998-03-27
;  PRIOR APPLICATION NUMBER: US 60/075,922
;  PRIOR FILING DATE: 1998-02-25
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-09-637-746-3

  Query Match             100.0%;  Score 51;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.062;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 22
US-09-501-097A-7
; Sequence 7, Application US/09501097A
; Patent No. 6734173
; GENERAL INFORMATION:
;  APPLICANT: Tzyy-Choou Wu
;  APPLICANT:  Chien-Fu Hung
;  TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
;  FILE REFERENCE: 2240-169349
;  CURRENT APPLICATION NUMBER: US/09/501,097A
;  CURRENT FILING DATE:  2000-02-09
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-09-501-097A-7

  Query Match             100.0%;  Score 51;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.062;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 23
US-09-980-523A-12
; Sequence 12, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
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; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-09-980-523A-12

Query Match 100.0%; Score 51; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.062;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCDSTLRLC 9
||||||||| 
Db 60 KCDSTLRLC 68

RESULT 24
US-09-613-303-12
; Sequence 12, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/09/613,303
; CURRENT FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-09-613-303-12

Query Match 100.0%; Score 51; DB 2; Length 121;
Best Local Similarity 100.0%; Pred. No. 0.076;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCDSTLRLC 9
||||||||| 
Db 83 KCDSTLRLC 91

RESULT 25
US-10-267-311-12
; Sequence 12, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-12

Query Match 100.0%; Score 51; DB 2; Length 121;
Best Local Similarity 100.0%; Pred. No. 0.076;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCDSTLRLC 9
||||||||| 
Db 83 KCDSTLRLC 91

RESULT 26
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

Query Match 100.0%; Score 51; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCDSTLRLC 9
||||||||| 
Db 28 KCDSTLRLC 36

RESULT 27
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0

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; SEQ ID NO 14
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-14

  Query Match             100.0%;  Score 51;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.11;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         28 KCDSTLRLC 36


RESULT 28
US-09-462-993-2
; Sequence 2, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
;  APPLICANT:  KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION:  ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE:  017753-122
;  CURRENT APPLICATION NUMBER: US/09/462,993
;  CURRENT FILING DATE:  2000-04-17
;  PRIOR APPLICATION NUMBER:  PCT/FR98/01576
;  PRIOR FILING DATE:  1998-07-17
;  PRIOR APPLICATION NUMBER:  FR 97/09152
;  PRIOR FILING DATE:  1997-07-18
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  PatentIn Ver. 2.2
; SEQ ID NO 2
;   LENGTH: 185
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Derivated from human papillomavirus, strain
;   OTHER INFORMATION: HPV-16, E7 fusion signals of the rabies
;   OTHER INFORMATION: glycoprotein, clone E7*TMR.
US-09-462-993-2

  Query Match             100.0%;  Score 51;  DB 2;  Length 185;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         79 KCDSTLRLC 87


RESULT 29
US-09-613-303-35
; Sequence 35, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
;  APPLICANT:  Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION:  INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE:  12071/002001
;  CURRENT APPLICATION NUMBER: US/09/613,303
;  CURRENT FILING DATE:  2000-07-10
;  PRIOR APPLICATION NUMBER:  US 60/143,757
;  PRIOR FILING DATE:  1999-07-08
;  NUMBER OF SEQ ID NOS:  55
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 35
;   LENGTH: 198
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-09-613-303-35

  Query Match             100.0%;  Score 51;  DB 2;  Length 198;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db        160 KCDSTLRLC 168


RESULT 30
US-10-267-311-35
; Sequence 35, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 35
;   LENGTH: 198
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-35

  Query Match             100.0%;  Score 51;  DB 2;  Length 198;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db        160 KCDSTLRLC 168


RESULT 31
US-09-485-885-1
; Sequence 1, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 1
;   LENGTH: 220
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-1
```

Query Match 100.0%; Score 51; DB 2; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 KCDSTLRLC 9
              |||||||||
Db        173 KCDSTLRLC 181
```

RESULT 32
US-09-485-885-8
; Sequence 8, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-8

Query Match 100.0%; Score 51; DB 2; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 KCDSTLRLC 9
              |||||||||
Db        173 KCDSTLRLC 181
```

RESULT 33
US-09-485-885-12
; Sequence 12, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-12

Query Match 100.0%; Score 51; DB 2; Length 239;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 KCDSTLRLC 9
              |||||||||
Db        192 KCDSTLRLC 200
```

RESULT 34
US-08-459-818-20
; Sequence 20, Application US/08459818
; Patent No. 5851795
; GENERAL INFORMATION:
; APPLICANT: Linsley, Peter S.
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Damle, Nitin K.
; APPLICANT: Brady, William
; TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 11150 Santa Monica Blvd., Suite 400
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: FastSeq 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/459,818
; FILING DATE: 02-JUN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Adriano, Sarah B.
; REGISTRATION NUMBER: 34,470
; REFERENCE/DOCKET NUMBER: 30436.35US02
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 310-445-1140
; TELEFAX: 310-445-9031
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 253 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-459-818-20

Query Match 100.0%; Score 51; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 KCDSTLRLC 9
              |||||||||
Db        215 KCDSTLRLC 223
```

RESULT 35
US-08-889-666-20
; Sequence 20, Application US/08889666
; Patent No. 5885579
; GENERAL INFORMATION:
; APPLICANT: Linsley, Peter S.
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Damle, Nitin K.
; APPLICANT: Brady, William
; APPLICANT: Kiener, Peter A.
; TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould

```
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/889,666
;      FILING DATE:  08-JUL-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/375390
;      FILING DATE:  18-JAN-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-35US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  253 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-889-666-20

  Query Match             100.0%;  Score 51;  DB 1;  Length 253;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db        215 KCDSTLRLC 223


RESULT 36
US-08-465-078-20
; Sequence 20, Application US/08465078
; Patent No. 5885796
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Kiener, Peter A.
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/465,078
;      FILING DATE:  05-JUN-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/375390
;      FILING DATE:  18-JAN-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-35US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  253 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-465-078-20

  Query Match             100.0%;  Score 51;  DB 1;  Length 253;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db        215 KCDSTLRLC 223


RESULT 37
US-08-725-776-20
; Sequence 20, Application US/08725776
; Patent No. 5968510
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Kiener, Peter A.
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/725,776
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/375390
;      FILING DATE:  18-JAN-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-35US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  253 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-725-776-20
```

```
  Query Match             100.0%;  Score 51;  DB 1;  Length 253;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db        215 KCDSTLRLC 223


RESULT 38
US-08-488-062-20
; Sequence 20, Application US/08488062
; Patent No. 5977318
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Kiener, Peter A.
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/488,062
;      FILING DATE:  07-JUN-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/375390
;      FILING DATE:  18-JAN-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-35US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  253 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-488-062-20

  Query Match             100.0%;  Score 51;  DB 1;  Length 253;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db        215 KCDSTLRLC 223


RESULT 39
US-08-117-083-9
; Sequence 9, Application US/08117083
; Patent No. 5719054
;  GENERAL INFORMATION:
;    APPLICANT:  Boursnell, Michael E.
;    APPLICANT:  Inglis, Stephen C.
;    APPLICANT:  Munro, Alan J.
;    TITLE OF INVENTION:  Recombinant Virus Vectors Encoding Human
;    TITLE OF INVENTION:  Papilloma Virus Proteins
;    NUMBER OF SEQUENCES:  70
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Walter H. Dreger
;      STREET:  4 Embarcadero Center, Suite 3400
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/117,083
;      FILING DATE:  10-SEP-1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Dreger, Walter H.
;      REGISTRATION NUMBER:  24,190
;      REFERENCE/DOCKET NUMBER:  A-58783
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-781-1989
;      TELEFAX:  415-398-3249
;      TELEX:  910 277299
;  INFORMATION FOR SEQ ID NO:  9:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  263 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    FEATURE:
;      NAME/KEY:  Protein
;      LOCATION:  1..263
;      OTHER INFORMATION:  /note= "Xaa refers to stop codon in
;      OTHER INFORMATION:  the open reading frame."
US-08-117-083-9

  Query Match             100.0%;  Score 51;  DB 1;  Length 263;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db        221 KCDSTLRLC 229


RESULT 40
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
```

```
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

  Query Match             100.0%;  Score 51;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db        220 KCDSTLRLC 228


RESULT 41
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-10

  Query Match             100.0%;  Score 51;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db        220 KCDSTLRLC 228


RESULT 42
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 51;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db        220 KCDSTLRLC 228


RESULT 43
US-09-501-097A-25
; Sequence 25, Application US/09501097A
; Patent No. 6734173
; GENERAL INFORMATION:
;  APPLICANT: Tzyy-Choou Wu
;  APPLICANT:  Chien-Fu Hung
;  TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
;  FILE REFERENCE: 2240-169349
;  CURRENT APPLICATION NUMBER: US/09/501,097A
;  CURRENT FILING DATE:  2000-02-09
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 25
;   LENGTH: 287
;   TYPE: PRT
;   ORGANISM: Human papillomavirus/Mouse
US-09-501-097A-25

  Query Match             100.0%;  Score 51;  DB 2;  Length 287;
  Best Local Similarity   100.0%;  Pred. No. 0.18;
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Qy          1 KCDSTLRLC 9
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Db        249 KCDSTLRLC 257


RESULT 44
US-09-613-303-33
; Sequence 33, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
;  APPLICANT:  Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION:  INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE:  12071/002001
;  CURRENT APPLICATION NUMBER: US/09/613,303
;  CURRENT FILING DATE:  2000-07-10
;  PRIOR APPLICATION NUMBER:  US 60/143,757
;  PRIOR FILING DATE:  1999-07-08
;  NUMBER OF SEQ ID NOS:  55
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 33
;   LENGTH: 295
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-09-613-303-33

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Qy          1 KCDSTLRLC 9
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Db        257 KCDSTLRLC 265


RESULT 45
US-10-267-311-33
; Sequence 33, Application US/10267311
; Patent No. 6657055
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; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 33
;   LENGTH: 295
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-33

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Qy          1 KCDSTLRLC 9
              |||||||||
Db        257 KCDSTLRLC 265


RESULT 46
US-09-613-303-25
; Sequence 25, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
;  APPLICANT:  Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION:  INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE:  12071/002001
;  CURRENT APPLICATION NUMBER: US/09/613,303
;  CURRENT FILING DATE:  2000-07-10
;  PRIOR APPLICATION NUMBER:  US 60/143,757
;  PRIOR FILING DATE:  1999-07-08
;  NUMBER OF SEQ ID NOS:  55
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 25
;   LENGTH: 324
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
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;   OTHER INFORMATION: fusion sequence
US-09-613-303-25

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Db        286 KCDSTLRLC 294


RESULT 47
US-10-267-311-25
; Sequence 25, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
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;   OTHER INFORMATION: fusion sequence
US-10-267-311-25

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Db        286 KCDSTLRLC 294


RESULT 48
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 6
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;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-6

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Qy          1 KCDSTLRLC 9
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Db        324 KCDSTLRLC 332


RESULT 49
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
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;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
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;   ORGANISM: Homo sapien
US-09-485-885-14

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Qy          1 KCDSTLRLC 9
              |||||||||
Db        343 KCDSTLRLC 351


RESULT 50
US-09-501-097A-22
; Sequence 22, Application US/09501097A
; Patent No. 6734173
; GENERAL INFORMATION:
;  APPLICANT: Tzyy-Choou Wu
;  APPLICANT:  Chien-Fu Hung
;  TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
;  FILE REFERENCE: 2240-169349
;  CURRENT APPLICATION NUMBER: US/09/501,097A
;  CURRENT FILING DATE:  2000-02-09
;  NUMBER OF SEQ ID NOS: 25
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US-09-501-097A-22

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Qy          1 KCDSTLRLC 9
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Post-processing: Minimum Match 0%
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Listing first 1000 summaries

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| 89 | 38 | 74.5 | 9 | 4 | US-10-365-908-16 | Sequence 16, Appl |
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| 93 | 37 | 72.5 | 15 | 4 | US-10-648-547-83 | Sequence 83, Appl |
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| 101 | 37 | 72.5 | 507 | 4 | US-10-437-963-145784 | Sequence 145784, |
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| 108 | 35 | 68.6 | 49 | 4 | US-10-424-599-255945 | Sequence 255945, |
| 109 | 35 | 68.6 | 51 | 4 | US-10-424-599-199337 | Sequence 199337, |
| 110 | 35 | 68.6 | 55 | 3 | US-09-864-761-35722 | Sequence 35722, A |
| 111 | 35 | 68.6 | 55 | 4 | US-10-424-599-148644 | Sequence 148644, |
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| 113 | 35 | 68.6 | 60 | 3 | US-09-864-761-48047 | Sequence 48047, A |
| 114 | 35 | 68.6 | 92 | 5 | US-10-501-282-2368 | Sequence 2368, Ap |
| 115 | 35 | 68.6 | 134 | 4 | US-10-425-115-198802 | Sequence 198802, |
| 116 | 35 | 68.6 | 154 | 4 | US-10-425-114-51204 | Sequence 51204, A |
| 117 | 35 | 68.6 | 198 | 4 | US-10-437-963-165784 | Sequence 165784, |
| 118 | 35 | 68.6 | 231 | 4 | US-10-425-115-197450 | Sequence 197450, |
| 119 | 35 | 68.6 | 237 | 4 | US-10-437-963-199711 | Sequence 199711, |
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| 121 | 35 | 68.6 | 510 | 4 | US-10-437-963-138453 | Sequence 138453, |
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| 123 | 35 | 68.6 | 1052 | 4 | US-10-425-115-194364 | Sequence 194364, |
| 124 | 35 | 68.6 | 1174 | 4 | US-10-205-841-40 | Sequence 40, Appl |
| 125 | 35 | 68.6 | 2645 | 5 | US-10-732-923-8232 | Sequence 8232, Ap |
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| 127 | 35 | 68.6 | 4599 | 4 | US-10-464-368-70 | Sequence 70, Appl |
| 128 | 35 | 68.6 | 4599 | 4 | US-10-479-875-4 | Sequence 4, Appli |
| 129 | 35 | 68.6 | 4599 | 6 | US-11-019-855-13 | Sequence 13, Appl |
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| 153 | 33 | 64.7 | 15 | 4 | US-10-306-541-63 | Sequence 63, Appl |
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| 166 | 33 | 64.7 | 90 | 5 | US-10-450-763-42988 | Sequence 42988, A |
| 167 | 33 | 64.7 | 90 | 5 | US-10-450-763-45572 | Sequence 45572, A |
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| 175 | 33 | 64.7 | 271 | 4 | US-10-424-599-187628 | Sequence 187628, |
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| 197 | 33 | 64.7 | 1510 | 4 | US-10-425-115-293802 | Sequence 293802, |
| 198 | 33 | 64.7 | 1540 | 4 | US-10-425-115-293807 | Sequence 293807, |
| 199 | 33 | 64.7 | 1570 | 4 | US-10-425-115-293806 | Sequence 293806, |
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| 211 | 32 | 62.7 | 32 | 3 | US-09-910-082A-324 | Sequence 324, App |
| 212 | 32 | 62.7 | 32 | 4 | US-10-765-926-42 | Sequence 42, Appl |
| 213 | 32 | 62.7 | 32 | 4 | US-10-765-926-324 | Sequence 324, App |
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| 215 | 32 | 62.7 | 35 | 3 | US-09-910-082A-399 | Sequence 399, App |
| 216 | 32 | 62.7 | 35 | 4 | US-10-765-926-246 | Sequence 246, App |
| 217 | 32 | 62.7 | 35 | 4 | US-10-765-926-399 | Sequence 399, App |
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| 229 | 32 | 62.7 | 101 | 4 | US-10-316-253-144 | Sequence 144, App |
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| 232 | 32 | 62.7 | 106 | 4 | US-10-424-599-266830 | Sequence 266830, |
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| 274 | 31 | 60.8 | 9 | 4 | US-10-141-645-110 | Sequence 110, App |
| 275 | 31 | 60.8 | 9 | 4 | US-10-141-645-117 | Sequence 117, App |
| 276 | 31 | 60.8 | 15 | 4 | US-10-648-547-94 | Sequence 94, Appl |
| 277 | 31 | 60.8 | 15 | 4 | US-10-306-541-94 | Sequence 94, Appl |
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| 337 | 31 | 60.8 | 199 | 5 | US-10-484-380-66 | Sequence 66, Appl |
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| 339 | 31 | 60.8 | 199 | 5 | US-10-484-380-70 | Sequence 70, Appl |
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| 344 | 31 | 60.8 | 214 | 4 | US-10-219-247-1 | Sequence 1, Appli |
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| 351 | 31 | 60.8 | 249 | 4 | US-10-225-067-60 | Sequence 60, Appl |
| 352 | 31 | 60.8 | 249 | 4 | US-10-374-780A-138 | Sequence 138, App |
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| 359 | 31 | 60.8 | 301 | 4 | US-10-369-493-279 | Sequence 279, App |
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| 368 | 31 | 60.8 | 364 | 4 | US-10-282-122A-75757 | Sequence 75757, A |
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| 379 | 31 | 60.8 | 380 | 5 | US-10-732-923-7469 | Sequence 7469, Ap |
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| 389 | 31 | 60.8 | 422 | 5 | US-10-863-332-448 | Sequence 448, App |
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| 397 | 31 | 60.8 | 450 | 4 | US-10-307-389-3 | Sequence 3, Appli |
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| 406 | 31 | 60.8 | 485 | 3 | US-09-833-245-1730 | Sequence 1730, Ap |
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| 414 | 31 | 60.8 | 585 | 6 | US-11-097-143-7623 | Sequence 7623, Ap |
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| 423 | 31 | 60.8 | 872 | 4 | US-10-251-661-4 | Sequence 4, Appli |
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| 426 | 31 | 60.8 | 872 | 4 | US-10-436-715-85 | Sequence 85, Appl |
| 427 | 31 | 60.8 | 872 | 4 | US-10-722-357-18 | Sequence 18, Appl |
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| 453 | 31 | 60.8 | 1238 | 5 | US-10-764-415B-38 | Sequence 38, Appl |
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| 467 | 31 | 60.8 | 1401 | 5 | US-10-719-993-661 | Sequence 661, App |
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| 480 | 31 | 60.8 | 1464 | 5 | US-10-473-127-240 | Sequence 240, App |
| 481 | 31 | 60.8 | 1464 | 5 | US-10-473-127-241 | Sequence 241, App |
| 482 | 31 | 60.8 | 1464 | 5 | US-10-473-127-242 | Sequence 242, App |
| 483 | 31 | 60.8 | 1464 | 5 | US-10-473-127-243 | Sequence 243, App |
| 484 | 31 | 60.8 | 1464 | 5 | US-10-473-127-244 | Sequence 244, App |
| 485 | 31 | 60.8 | 1464 | 5 | US-10-473-127-245 | Sequence 245, App |
| 486 | 31 | 60.8 | 1464 | 5 | US-10-473-127-246 | Sequence 246, App |
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| 514 | 30 | 58.8 | 45 | 4 | US-10-178-213-150 | Sequence 150, App |
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| 516 | 30 | 58.8 | 45 | 4 | US-10-178-213-156 | Sequence 156, App |
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| 518 | 30 | 58.8 | 45 | 4 | US-10-178-213-162 | Sequence 162, App |
| 519 | 30 | 58.8 | 45 | 4 | US-10-178-213-165 | Sequence 165, App |
| 520 | 30 | 58.8 | 45 | 4 | US-10-178-213-168 | Sequence 168, App |
| 521 | 30 | 58.8 | 45 | 4 | US-10-178-213-171 | Sequence 171, App |
| 522 | 30 | 58.8 | 45 | 4 | US-10-178-213-180 | Sequence 180, App |
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| 524 | 30 | 58.8 | 45 | 4 | US-10-178-213-186 | Sequence 186, App |
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| 528 | 30 | 58.8 | 45 | 4 | US-10-178-213-201 | Sequence 201, App |
| 529 | 30 | 58.8 | 45 | 4 | US-10-178-213-204 | Sequence 204, App |
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| 668 | 30 | 58.8 | 290 | 4 | US-10-260-877-76 | Sequence 76, Appl |
| 669 | 30 | 58.8 | 291 | 4 | US-10-232-544-119 | Sequence 119, App |
| 670 | 30 | 58.8 | 301 | 4 | US-10-425-114-41137 | Sequence 41137, A |
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| 672 | 30 | 58.8 | 336 | 4 | US-10-232-544-122 | Sequence 122, App |
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| 674 | 30 | 58.8 | 337 | 3 | US-09-828-478-5 | Sequence 5, Appli |
| 675 | 30 | 58.8 | 337 | 3 | US-09-779-679-27 | Sequence 27, Appl |
| 676 | 30 | 58.8 | 337 | 3 | US-09-991-225-6 | Sequence 6, Appli |
| 677 | 30 | 58.8 | 337 | 4 | US-10-055-106C-3 | Sequence 3, Appli |
| 678 | 30 | 58.8 | 337 | 4 | US-10-167-192-3 | Sequence 3, Appli |
| 679 | 30 | 58.8 | 337 | 4 | US-10-225-567A-547 | Sequence 547, App |
| 680 | 30 | 58.8 | 337 | 4 | US-10-290-078-21 | Sequence 21, Appl |
| 681 | 30 | 58.8 | 337 | 4 | US-10-349-021-5 | Sequence 5, Appli |
| 682 | 30 | 58.8 | 337 | 4 | US-10-369-405-6 | Sequence 6, Appli |
| 683 | 30 | 58.8 | 337 | 4 | US-10-400-991-6 | Sequence 6, Appli |
| 684 | 30 | 58.8 | 337 | 4 | US-10-692-605-4 | Sequence 4, Appli |

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| 756 | 30 | 58.8 | 864 | 4 | US-10-210-281-52 | Sequence 52, Appl |
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| 771 | 30 | 58.8 | 2447 | 4 | US-10-369-072-28 | Sequence 28, Appl |
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| 774 | 30 | 58.8 | 5674 | 5 | US-10-844-716-10 | Sequence 10, Appl |
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| 778 | 29.5 | 57.8 | 2966 | 5 | US-10-840-512-160 | Sequence 160, App |
| 779 | 29 | 56.9 | 9 | 3 | US-09-891-823-97 | Sequence 97, Appl |
| 780 | 29 | 56.9 | 9 | 4 | US-10-365-908-97 | Sequence 97, Appl |
| 781 | 29 | 56.9 | 9 | 5 | US-10-871-138-97 | Sequence 97, Appl |
| 782 | 29 | 56.9 | 10 | 3 | US-09-891-823-84 | Sequence 84, Appl |
| 783 | 29 | 56.9 | 10 | 3 | US-09-891-823-101 | Sequence 101, App |
| 784 | 29 | 56.9 | 10 | 4 | US-10-365-908-84 | Sequence 84, Appl |
| 785 | 29 | 56.9 | 10 | 4 | US-10-365-908-101 | Sequence 101, App |
| 786 | 29 | 56.9 | 10 | 4 | US-10-648-547-47 | Sequence 47, Appl |
| 787 | 29 | 56.9 | 10 | 4 | US-10-306-541-47 | Sequence 47, Appl |
| 788 | 29 | 56.9 | 10 | 5 | US-10-871-138-84 | Sequence 84, Appl |
| 789 | 29 | 56.9 | 10 | 5 | US-10-871-138-101 | Sequence 101, App |
| 790 | 29 | 56.9 | 12 | 5 | US-10-659-207-160 | Sequence 160, App |
| 791 | 29 | 56.9 | 14 | 3 | US-09-932-613-42 | Sequence 42, Appl |
| 792 | 29 | 56.9 | 14 | 3 | US-09-932-613-56 | Sequence 56, Appl |
| 793 | 29 | 56.9 | 14 | 3 | US-09-932-322-42 | Sequence 42, Appl |
| 794 | 29 | 56.9 | 14 | 3 | US-09-932-322-56 | Sequence 56, Appl |
| 795 | 29 | 56.9 | 16 | 5 | US-10-659-207-319 | Sequence 319, App |
| 796 | 29 | 56.9 | 20 | 4 | US-10-432-465-48 | Sequence 48, Appl |
| 797 | 29 | 56.9 | 20 | 5 | US-10-890-526-73 | Sequence 73, Appl |
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| 801 | 29 | 56.9 | 24 | 3 | US-09-910-009A-512 | Sequence 512, App |
| 802 | 29 | 56.9 | 24 | 4 | US-10-828-478-190 | Sequence 190, App |
| 803 | 29 | 56.9 | 24 | 4 | US-10-828-478-512 | Sequence 512, App |
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| 827 | 29 | 56.9 | 49 | 4 | US-10-635-977-21 | Sequence 21, Appl |
| 828 | 29 | 56.9 | 49 | 4 | US-10-635-977-22 | Sequence 22, Appl |
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| 841 | 29 | 56.9 | 71 | 4 | US-10-369-294-25 | Sequence 25, Appl |
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| 848 | 29 | 56.9 | 75 | 4 | US-10-221-278-364 | Sequence 364, App |
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| 864 | 29 | 56.9 | 90 | 4 | US-10-425-115-221786 | Sequence 221786, |
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| 866 | 29 | 56.9 | 93 | 4 | US-10-424-599-226135 | Sequence 226135, |
| 867 | 29 | 56.9 | 93 | 4 | US-10-767-701-55363 | Sequence 55363, A |
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| 884 | 29 | 56.9 | 106 | 3 | US-09-984-271-138 | Sequence 138, App |
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| 886 | 29 | 56.9 | 106 | 6 | US-11-062-999-52 | Sequence 52, Appl |
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| 892 | 29 | 56.9 | 110 | 4 | US-10-403-571-72 | Sequence 72, Appl |
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| 902 | 29 | 56.9 | 111 | 4 | US-10-767-701-33165 | Sequence 33165, A |
| 903 | 29 | 56.9 | 112 | 4 | US-10-424-599-152133 | Sequence 152133, |
| 904 | 29 | 56.9 | 113 | 4 | US-10-276-774-2689 | Sequence 2689, Ap |
| 905 | 29 | 56.9 | 114 | 4 | US-10-424-599-163655 | Sequence 163655, |
| 906 | 29 | 56.9 | 114 | 4 | US-10-425-115-288161 | Sequence 288161, |
| 907 | 29 | 56.9 | 114 | 4 | US-10-425-115-291221 | Sequence 291221, |
| 908 | 29 | 56.9 | 115 | 5 | US-10-617-320-3436 | Sequence 3436, Ap |
| 909 | 29 | 56.9 | 117 | 4 | US-10-437-963-172521 | Sequence 172521, |
| 910 | 29 | 56.9 | 121 | 4 | US-10-767-701-51401 | Sequence 51401, A |
| 911 | 29 | 56.9 | 125 | 4 | US-10-029-386-28291 | Sequence 28291, A |
| 912 | 29 | 56.9 | 129 | 4 | US-10-108-260A-3023 | Sequence 3023, Ap |
| 913 | 29 | 56.9 | 129 | 4 | US-10-424-599-161232 | Sequence 161232, |
| 914 | 29 | 56.9 | 132 | 4 | US-10-437-963-200000 | Sequence 200000, |
| 915 | 29 | 56.9 | 132 | 6 | US-11-097-143-18318 | Sequence 18318, A |
| 916 | 29 | 56.9 | 133 | 4 | US-10-425-115-201382 | Sequence 201382, |
| 917 | 29 | 56.9 | 135 | 4 | US-10-767-701-50200 | Sequence 50200, A |
| 918 | 29 | 56.9 | 136 | 4 | US-10-767-701-56761 | Sequence 56761, A |
| 919 | 29 | 56.9 | 137 | 3 | US-09-867-550-832 | Sequence 832, App |
| 920 | 29 | 56.9 | 139 | 4 | US-10-437-963-144714 | Sequence 144714, |
| 921 | 29 | 56.9 | 141 | 5 | US-10-450-763-58488 | Sequence 58488, A |
| 922 | 29 | 56.9 | 143 | 5 | US-10-450-763-43120 | Sequence 43120, A |
| 923 | 29 | 56.9 | 144 | 4 | US-10-425-115-262091 | Sequence 262091, |
| 924 | 29 | 56.9 | 144 | 4 | US-10-425-115-262093 | Sequence 262093, |
| 925 | 29 | 56.9 | 146 | 4 | US-10-178-389-2 | Sequence 2, Appli |
| 926 | 29 | 56.9 | 146 | 4 | US-10-755-889-14 | Sequence 14, Appl |
| 927 | 29 | 56.9 | 146 | 5 | US-10-775-204-575 | Sequence 575, App |
| 928 | 29 | 56.9 | 146 | 5 | US-10-775-204-578 | Sequence 578, App |
| 929 | 29 | 56.9 | 146 | 5 | US-10-775-204-592 | Sequence 592, App |
| 930 | 29 | 56.9 | 147 | 4 | US-10-653-595-181 | Sequence 181, App |
| 931 | 29 | 56.9 | 147 | 4 | US-10-437-963-174977 | Sequence 174977, |
| 932 | 29 | 56.9 | 148 | 3 | US-09-397-945-181 | Sequence 181, App |
| 933 | 29 | 56.9 | 157 | 4 | US-10-437-963-154707 | Sequence 154707, |
| 934 | 29 | 56.9 | 157 | 4 | US-10-425-115-199539 | Sequence 199539, |
| 935 | 29 | 56.9 | 159 | 4 | US-10-437-963-174060 | Sequence 174060, |
| 936 | 29 | 56.9 | 161 | 4 | US-10-424-599-196885 | Sequence 196885, |
| 937 | 29 | 56.9 | 162 | 4 | US-10-437-963-126506 | Sequence 126506, |
| 938 | 29 | 56.9 | 168 | 4 | US-10-425-115-199537 | Sequence 199537, |
| 939 | 29 | 56.9 | 169 | 4 | US-10-437-963-188256 | Sequence 188256, |
| 940 | 29 | 56.9 | 171 | 4 | US-10-424-599-235024 | Sequence 235024, |
| 941 | 29 | 56.9 | 171 | 5 | US-10-450-763-57668 | Sequence 57668, A |
| 942 | 29 | 56.9 | 179 | 3 | US-09-855-604-801 | Sequence 801, App |
| 943 | 29 | 56.9 | 179 | 3 | US-09-855-604-801 | Sequence 801, App |
| 944 | 29 | 56.9 | 179 | 4 | US-10-767-701-38099 | Sequence 38099, A |
| 945 | 29 | 56.9 | 182 | 5 | US-10-491-823-96 | Sequence 96, Appl |
| 946 | 29 | 56.9 | 183 | 3 | US-09-800-729-101 | Sequence 101, App |
| 947 | 29 | 56.9 | 183 | 3 | US-09-833-245-2225 | Sequence 2225, Ap |
| 948 | 29 | 56.9 | 183 | 4 | US-10-425-115-220916 | Sequence 220916, |
| 949 | 29 | 56.9 | 189 | 4 | US-10-424-599-233126 | Sequence 233126, |
| 950 | 29 | 56.9 | 191 | 4 | US-10-425-115-226227 | Sequence 226227, |
| 951 | 29 | 56.9 | 194 | 3 | US-09-974-879-145 | Sequence 145, App |
| 952 | 29 | 56.9 | 194 | 4 | US-10-424-599-235829 | Sequence 235829, |
| 953 | 29 | 56.9 | 194 | 4 | US-10-621-401-145 | Sequence 145, App |
| 954 | 29 | 56.9 | 194 | 4 | US-10-363-616-357 | Sequence 357, App |
| 955 | 29 | 56.9 | 195 | 3 | US-09-305-736-144 | Sequence 144, App |
| 956 | 29 | 56.9 | 195 | 3 | US-09-818-683-144 | Sequence 144, App |
| 957 | 29 | 56.9 | 195 | 3 | US-09-818-683-144 | Sequence 144, App |
| 958 | 29 | 56.9 | 195 | 4 | US-10-424-599-235055 | Sequence 235055, |
| 959 | 29 | 56.9 | 195 | 4 | US-10-437-963-142654 | Sequence 142654, |
| 960 | 29 | 56.9 | 196 | 4 | US-10-424-599-206670 | Sequence 206670, |
| 961 | 29 | 56.9 | 198 | 4 | US-10-243-552-576 | Sequence 576, App |
| 962 | 29 | 56.9 | 199 | 5 | US-10-484-380-74 | Sequence 74, Appl |
| 963 | 29 | 56.9 | 201 | 4 | US-10-424-599-166106 | Sequence 166106, |
| 964 | 29 | 56.9 | 206 | 3 | US-09-397-945-336 | Sequence 336, App |
| 965 | 29 | 56.9 | 206 | 4 | US-10-424-599-275188 | Sequence 275188, |
| 966 | 29 | 56.9 | 206 | 4 | US-10-653-595-336 | Sequence 336, App |
| 967 | 29 | 56.9 | 210 | 4 | US-10-425-115-287025 | Sequence 287025, |
| 968 | 29 | 56.9 | 211 | 4 | US-10-050-704-266 | Sequence 266, App |
| 969 | 29 | 56.9 | 211 | 4 | US-10-798-512-266 | Sequence 266, App |
| 970 | 29 | 56.9 | 213 | 5 | US-10-450-763-35513 | Sequence 35513, A |
| 971 | 29 | 56.9 | 217 | 4 | US-10-425-115-280955 | Sequence 280955, |
| 972 | 29 | 56.9 | 217 | 5 | US-10-450-763-42364 | Sequence 42364, A |
| 973 | 29 | 56.9 | 220 | 5 | US-10-719-993-862 | Sequence 862, App |
| 974 | 29 | 56.9 | 225 | 4 | US-10-091-007-76 | Sequence 76, Appl |
| 975 | 29 | 56.9 | 232 | 4 | US-10-767-701-51556 | Sequence 51556, A |
| 976 | 29 | 56.9 | 233 | 3 | US-09-216-393-110 | Sequence 110, App |

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| 977 | 29 | 56.9 | 233 | 4 | US-10-321-856-110 | Sequence 110, App |
| 978 | 29 | 56.9 | 234 | 4 | US-10-424-599-171073 | Sequence 171073, |
| 979 | 29 | 56.9 | 235 | 3 | US-09-925-297-626 | Sequence 626, App |
| 980 | 29 | 56.9 | 235 | 4 | US-10-264-237-2354 | Sequence 2354, Ap |
| 981 | 29 | 56.9 | 240 | 5 | US-10-732-923-7462 | Sequence 7462, Ap |
| 982 | 29 | 56.9 | 242 | 4 | US-10-615-659-4 | Sequence 4, Appli |
| 983 | 29 | 56.9 | 242 | 4 | US-10-635-977-4 | Sequence 4, Appli |
| 984 | 29 | 56.9 | 246 | 4 | US-10-424-599-146308 | Sequence 146308, |
| 985 | 29 | 56.9 | 247 | 4 | US-10-425-114-52854 | Sequence 52854, A |
| 986 | 29 | 56.9 | 247 | 5 | US-10-732-923-16365 | Sequence 16365, A |
| 987 | 29 | 56.9 | 248 | 4 | US-10-425-115-330547 | Sequence 330547, |
| 988 | 29 | 56.9 | 254 | 4 | US-10-437-963-171077 | Sequence 171077, |
| 989 | 29 | 56.9 | 256 | 4 | US-10-289-762-910 | Sequence 910, App |
| 990 | 29 | 56.9 | 256 | 4 | US-10-437-963-166722 | Sequence 166722, |
| 991 | 29 | 56.9 | 259 | 4 | US-10-264-049-2343 | Sequence 2343, Ap |
| 992 | 29 | 56.9 | 259 | 4 | US-10-425-114-37100 | Sequence 37100, A |
| 993 | 29 | 56.9 | 261 | 4 | US-10-425-115-299316 | Sequence 299316, |
| 994 | 29 | 56.9 | 271 | 4 | US-10-425-115-189533 | Sequence 189533, |
| 995 | 29 | 56.9 | 277 | 3 | US-09-925-300-1169 | Sequence 1169, Ap |
| 996 | 29 | 56.9 | 283 | 4 | US-10-289-762-1116 | Sequence 1116, Ap |
| 997 | 29 | 56.9 | 283 | 4 | US-10-425-115-366059 | Sequence 366059, |
| 998 | 29 | 56.9 | 289 | 6 | US-11-097-143-17673 | Sequence 17673, A |
| 999 | 29 | 56.9 | 290 | 4 | US-10-425-114-43130 | Sequence 43130, A |
| 1000 | 29 | 56.9 | 292 | 4 | US-10-425-114-63453 | Sequence 63453, A |

ALIGNMENTS

```
RESULT 1
US-10-648-547-67
; Sequence 67, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/9
;  CURRENT APPLICATION NUMBER: US/10/648,547
;  CURRENT FILING DATE:  2003-08-25
;  PRIOR APPLICATION NUMBER: 10/306,541
;  PRIOR FILING DATE: 11-25-2002
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 11-23-2001
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 67
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-648-547-67

  Query Match             100.0%;  Score 51;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.039;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
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Db          2 KCDSTLRLC 10


RESULT 2
US-10-648-547-93
; Sequence 93, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/9
;  CURRENT APPLICATION NUMBER: US/10/648,547
;  CURRENT FILING DATE:  2003-08-25
;  PRIOR APPLICATION NUMBER: 10/306,541
;  PRIOR FILING DATE: 11-25-2002
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 11-23-2001
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 93
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-648-547-93

  Query Match             100.0%;  Score 51;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.039;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db          1 KCDSTLRLC 9


RESULT 3
US-10-648-547-96
; Sequence 96, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/9
;  CURRENT APPLICATION NUMBER: US/10/648,547
;  CURRENT FILING DATE:  2003-08-25
;  PRIOR APPLICATION NUMBER: 10/306,541
;  PRIOR FILING DATE: 11-25-2002
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 11-23-2001
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 96
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-648-547-96

  Query Match             100.0%;  Score 51;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.039;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db          7 KCDSTLRLC 15


RESULT 4
US-10-476-570-16
; Sequence 16, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
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; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E7 60-74
US-10-476-570-16

Query Match 100.0%; Score 51; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCDSTLRLC 9
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Db 1 KCDSTLRLC 9

RESULT 5
US-10-306-541-67
; Sequence 67, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 67
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-67

Query Match 100.0%; Score 51; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCDSTLRLC 9
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Db 2 KCDSTLRLC 10

RESULT 6
US-10-306-541-93
; Sequence 93, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 93
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-93

Query Match 100.0%; Score 51; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCDSTLRLC 9
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Db 1 KCDSTLRLC 9

RESULT 7
US-10-306-541-96
; Sequence 96, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 96
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-96

Query Match 100.0%; Score 51; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCDSTLRLC 9
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Db 7 KCDSTLRLC 15

RESULT 8
US-09-888-721-7
; Sequence 7, Application US/09888721
; Patent No. US20020132990A1
; GENERAL INFORMATION:
; APPLICANT: Huston, James S.
; APPLICANT: Wils, Pierre
; APPLICANT: Zhu, Quan
; APPLICANT: Laurent, Olivier
; APPLICANT: Marasco, Wayne A.
; APPLICANT: Scherman, Daniel
; TITLE OF INVENTION: BIOENGINEERED VEHICLES FOR TARGETED NUCLEIC ACID
; TITLE OF INVENTION: DELIVERY
; FILE REFERENCE: 23611-A USA
; CURRENT APPLICATION NUMBER: US/09/888,721
; CURRENT FILING DATE: 2001-06-25
; PRIOR APPLICATION NUMBER: 60/213,653
; PRIOR FILING DATE: 2000-06-23
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-09-888-721-7

Query Match 100.0%; Score 51; DB 3; Length 19;
Best Local Similarity 100.0%; Pred. No. 0.048;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCDSTLRLC 9
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Db 1 KCDSTLRLC 9

RESULT 9
US-10-668-400-9
; Sequence 9, Application US/10668400

; Publication No. US20040058859A1
; GENERAL INFORMATION:
; APPLICANT: Bay, Sylvie
; APPLICANT: Cantacuzene, Daniele
; APPLICANT: Leclerc, Claude
; APPLICANT: Lo-Man, Richard
; TITLE OF INVENTION: MULTIPLE ANTIGEN GLYCOPEPTIDE CARBOHYDRATE,
; TITLE OF INVENTION: VACCINE COMPRISING THE SAME AND USE THEREOF
; FILE REFERENCE: 102.166A-1
; CURRENT APPLICATION NUMBER: US/10/668,400
; CURRENT FILING DATE: 2003-09-23
; PRIOR APPLICATION NUMBER: US 09/049,847
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: US 60/041,726
; PRIOR FILING DATE: 1997-03-27
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
; FEATURE:
; NAME/KEY: MISC_FEATURE
; OTHER INFORMATION: HPV 16 E7 PEPTIDE
US-10-668-400-9

Query Match 100.0%; Score 51; DB 4; Length 19;
Best Local Similarity 100.0%; Pred. No. 0.048;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCDSTLRLC 9
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Db 1 KCDSTLRLC 9

RESULT 10
US-10-432-465-49
; Sequence 49, Application US/10432465
; Publication No. US20040091479A1
; GENERAL INFORMATION:
; APPLICANT: Nieland, John
; APPLICANT: Kaufmann, Andreas
; APPLICANT: Kather, Angela
; APPLICANT: Schinz, Manuela
; TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1
; TITLE OF INVENTION: Protein and E7 Protein and Their Use in Diagnosis and
; TITLE OF INVENTION: Therapy
; FILE REFERENCE: 50125/077001
; CURRENT APPLICATION NUMBER: US/10/432,465
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: PCT/EP01/14037
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: DE 10059631.2
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-432-465-49

Query Match 100.0%; Score 51; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.051;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCDSTLRLC 9
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Db 5 KCDSTLRLC 13

RESULT 11
US-10-890-526-74
; Sequence 74, Application US/10890526
; Publication No. US20040258708A1
; GENERAL INFORMATION:
; APPLICANT: Jochmus, Ingrid
; APPLICANT: Nieland, John
; TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
; TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
; TITLE OF INVENTION: Therapy
; FILE REFERENCE: 50125/036001
; CURRENT APPLICATION NUMBER: US/10/890,526
; CURRENT FILING DATE: 2004-07-13
; PRIOR APPLICATION NUMBER: US/09/980,177
; PRIOR FILING DATE: 2002-05-02
; PRIOR APPLICATION NUMBER: PCT/EP00/05006
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: DE 19925199.1
; PRIOR FILING DATE: 1999-06-01
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-890-526-74

Query Match 100.0%; Score 51; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.051;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCDSTLRLC 9
||||||||||
Db 5 KCDSTLRLC 13

RESULT 12
US-09-728-466-1
; Sequence 1, Application US/09728466
; Patent No. US20010029022A1
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
; APPLICANT: He, Wanxia
; TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
; FILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/09/728,466
; CURRENT FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: 09/382,616
; PRIOR FILING DATE: 1999-08-25
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Papillomavirus sylvilagi
US-09-728-466-1

Query Match 100.0%; Score 51; DB 3; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.23;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCDSTLRLC 9
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Db 60 KCDSTLRLC 68

RESULT 13
US-09-820-765-4
; Sequence 4, Application US/09820765
; Publication No. US20020039584A1
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; HALLEK, Michael
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE

```
;         NUMBER OF SEQUENCES: 28
;         CORRESPONDENCE ADDRESS:
;              ADDRESSEE: FOLEY & LARDNER
;              STREET: 3000 K Street, N.W.
;              CITY: Washington
;              STATE: D.C.
;              COUNTRY: U.S.A.
;              ZIP: 20007-5109
;         COMPUTER READABLE FORM:
;              MEDIUM TYPE: Floppy disk
;              COMPUTER: IBM PC compatible
;              OPERATING SYSTEM: PC-DOS/MS-DOS
;              SOFTWARE: PatentIn Release #1.0, Version #1.30
;         CURRENT APPLICATION DATA:
;              APPLICATION NUMBER: US/09/820,765
;              FILING DATE: 30-Mar-2001
;              CLASSIFICATION: <Unknown>
;         PRIOR APPLICATION DATA:
;              APPLICATION NUMBER: US 09/026,896
;              FILING DATE: 20-FEB-1998
;         ATTORNEY/AGENT INFORMATION:
;              NAME: Sandercock, Colin G.
;              REGISTRATION NUMBER: 31,298
;              REFERENCE/DOCKET NUMBER: 37067/102
;         TELECOMMUNICATION INFORMATION:
;              TELEPHONE: (202) 672-5300
;              TELEFAX: (202) 672-5399
;    INFORMATION FOR SEQ ID NO: 4:
;         SEQUENCE CHARACTERISTICS:
;              LENGTH: 98 amino acids
;              TYPE: amino acid
;              TOPOLOGY: linear
;         MOLECULE TYPE: protein
;         SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-765-4

  Query Match             100.0%;  Score 51;  DB 3;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.23;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 14
US-09-824-017-4
; Sequence 4, Application US/09824017
; Publication No. US20020197668A1
;   GENERAL INFORMATION:
;         APPLICANT: BURGER, Alexander
;                    HALLEK, Michael
;         TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                             FORMULATIONS AND METHODS OF USE
;         NUMBER OF SEQUENCES: 28
;         CORRESPONDENCE ADDRESS:
;              ADDRESSEE: FOLEY & LARDNER
;              STREET: 3000 K Street, N.W.
;              CITY: Washington
;              STATE: D.C.
;              COUNTRY: U.S.A.
;              ZIP: 20007-5109
;         COMPUTER READABLE FORM:
;              MEDIUM TYPE: Floppy disk
;              COMPUTER: IBM PC compatible
;              OPERATING SYSTEM: PC-DOS/MS-DOS
;              SOFTWARE: PatentIn Release #1.0, Version #1.30
;         CURRENT APPLICATION DATA:
;              APPLICATION NUMBER: US/09/824,017
;              FILING DATE: 03-Apr-2001
;              CLASSIFICATION: 424
;         PRIOR APPLICATION DATA:
;              APPLICATION NUMBER: 09/026,896
;              FILING DATE: 1998-02-20
;         ATTORNEY/AGENT INFORMATION:
;              NAME: Sandercock, Colin G.
;              REGISTRATION NUMBER: 31,298
;              REFERENCE/DOCKET NUMBER: 37067/102
;         TELECOMMUNICATION INFORMATION:
;              TELEPHONE: (202) 672-5300
;              TELEFAX: (202) 672-5399
;    INFORMATION FOR SEQ ID NO: 4:
;         SEQUENCE CHARACTERISTICS:
;              LENGTH: 98 amino acids
;              TYPE: amino acid
;              TOPOLOGY: linear
;         MOLECULE TYPE: protein
;         SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-824-017-4

  Query Match             100.0%;  Score 51;  DB 3;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.23;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 15
US-09-986-118A-4
; Sequence 4, Application US/09986118A
; Publication No. US20030021806A1
;   GENERAL INFORMATION:
;         APPLICANT: BURGER, Alexander
;                    HALLEK, Michael
;         TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                             FORMULATIONS AND METHODS OF USE
;         NUMBER OF SEQUENCES: 28
;         CORRESPONDENCE ADDRESS:
;              ADDRESSEE: FOLEY & LARDNER
;              STREET: 3000 K Street, N.W.
;              CITY: Washington
;              STATE: D.C.
;              COUNTRY: U.S.A.
;              ZIP: 20007-5109
;         COMPUTER READABLE FORM:
;              MEDIUM TYPE: Floppy disk
;              COMPUTER: IBM PC compatible
;              OPERATING SYSTEM: PC-DOS/MS-DOS
;              SOFTWARE: PatentIn Release #1.0, Version #1.30
;         CURRENT APPLICATION DATA:
;              APPLICATION NUMBER: US/09/986,118A
;              FILING DATE: 07-No. US20030021806A1-2001
;              CLASSIFICATION: <Unknown>
;         PRIOR APPLICATION DATA:
;              APPLICATION NUMBER: US 09/026,896
;              FILING DATE: <Unknown>
;         ATTORNEY/AGENT INFORMATION:
;              NAME: Sandercock, Colin G.
;              REGISTRATION NUMBER: 31,298
;              REFERENCE/DOCKET NUMBER: 37067/102
;         TELECOMMUNICATION INFORMATION:
;              TELEPHONE: (202) 672-5300
;              TELEFAX: (202) 672-5399
;    INFORMATION FOR SEQ ID NO: 4:
;         SEQUENCE CHARACTERISTICS:
;              LENGTH: 98 amino acids
;              TYPE: amino acid
;              TOPOLOGY: linear
;         MOLECULE TYPE: protein
;         SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

  Query Match             100.0%;  Score 51;  DB 3;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.23;
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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 16
US-10-267-311-8
; Sequence 8, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-8

  Query Match             100.0%;  Score 51;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.23;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 17
US-10-177-390-8
; Sequence 8, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
;  APPLICANT: Schuler, Gerold
;  APPLICANT:  N.V. Antwerps Innovatiecentrum
;  TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
;  TITLE OF INVENTION:  Polynucleotides by Electroporation
;  FILE REFERENCE: 021505wo/JH/ml
;  CURRENT APPLICATION NUMBER: US/10/177,390
;  CURRENT FILING DATE:  2002-06-20
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: fragment of
;   OTHER INFORMATION: human papilloma virus type 16 E7 gene
US-10-177-390-8

  Query Match             100.0%;  Score 51;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.23;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 18
US-10-201-764-19
; Sequence 19, Application US/10201764
; Publication No. US20030166140A1
; GENERAL INFORMATION:
;  APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
;  TITLE OF INVENTION:  IMMUNE RESPONSE
;  FILE REFERENCE: TBA
;  CURRENT APPLICATION NUMBER: US/10/201,764
;  CURRENT FILING DATE:  2002-07-22
;  PRIOR APPLICATION NUMBER: US/09/566,420
;  PRIOR FILING DATE: 2000-05-05
;  PRIOR APPLICATION NUMBER: 60/132,752
;  PRIOR FILING DATE: 1999-05-06
;  PRIOR APPLICATION NUMBER: 60/132,750
;  PRIOR FILING DATE: 1999-05-06
;  NUMBER OF SEQ ID NOS: 19
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type E7
US-10-201-764-19

  Query Match             100.0%;  Score 51;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.23;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 19
US-10-392-113-29
; Sequence 29, Application US/10392113
; Publication No. US20030224993A1
; GENERAL INFORMATION:
;  APPLICANT: Land, Hartmut
;  APPLICANT:  Deleu, Laurent
;  TITLE OF INVENTION: COMPOSITIONS THAT INHIBIT PROLIFERATION
;  TITLE OF INVENTION:  OF CANCER CELLS
;  FILE REFERENCE: 21108.0005U3
;  CURRENT APPLICATION NUMBER: US/10/392,113
;  CURRENT FILING DATE:  2003-03-17
;  PRIOR APPLICATION NUMBER: 60/365,078
;  PRIOR FILING DATE: 2002-03-15
;  PRIOR APPLICATION NUMBER: PCT/US01/32127
;  PRIOR FILING DATE: 2001-10-15
;  PRIOR APPLICATION NUMBER: 60/239,705
;  PRIOR FILING DATE: 2000-10-12
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 29
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:/Note =
;   OTHER INFORMATION: Synthetic Construct
US-10-392-113-29

  Query Match             100.0%;  Score 51;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.23;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68
```

```
RESULT 20
US-10-654-129-4
; Sequence 4, Application US/10654129
; Publication No. US20040081661A1
;  GENERAL INFORMATION:
;       APPLICANT: BURGER, Alexander
;                  HALLEK, Michael
;       TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                           FORMULATIONS AND METHODS OF USE
;       NUMBER OF SEQUENCES: 28
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: FOLEY & LARDNER
;            STREET: 3000 K Street, N.W.
;            CITY: Washington
;            STATE: D.C.
;            COUNTRY: U.S.A.
;            ZIP: 20007-5109
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.30
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/10/654,129
;            FILING DATE: 04-Sep-2003
;            CLASSIFICATION: 424
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: US/09/824,017
;            FILING DATE: 03-Apr-2001
;            APPLICATION NUMBER: 09/026,896
;            FILING DATE: 1998-02-20
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Sandercock, Colin G.
;            REGISTRATION NUMBER: 31,298
;            REFERENCE/DOCKET NUMBER: 37067/102
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (202) 672-5300
;            TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 98 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-654-129-4

  Query Match             100.0%;  Score 51;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.23;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 21
US-10-681-410-19
; Sequence 19, Application US/10681410
; Publication No. US20040096426A1
; GENERAL INFORMATION:
;  APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
;  TITLE OF INVENTION:  IMMUNE RESPONSE
;  FILE REFERENCE: TBA
;  CURRENT APPLICATION NUMBER: US/10/681,410
;  CURRENT FILING DATE:  2003-10-08
;  PRIOR APPLICATION NUMBER: US/10/201,764
;  PRIOR FILING DATE: 2002-07-22
;  PRIOR APPLICATION NUMBER: US/09/566,420
;  PRIOR FILING DATE: 2000-05-05
;  PRIOR APPLICATION NUMBER: 60/132,752
;  PRIOR FILING DATE: 1999-05-06
;  PRIOR APPLICATION NUMBER: 60/132,750
;  PRIOR FILING DATE: 1999-05-06
;  NUMBER OF SEQ ID NOS: 19
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type E7
US-10-681-410-19

  Query Match             100.0%;  Score 51;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.23;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 22
US-10-772-988-3
; Sequence 3, Application US/10772988
; Publication No. US20040139485A1
; GENERAL INFORMATION:
;  APPLICANT: Thorgeirsson, Snorri S.
;  APPLICANT:  Woitach, Joseph T.
;  APPLICANT:  Zhang, Minghuang
;  TITLE OF INVENTION: cDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS PROTEI
;  TITLE OF INVENTION:  PRODUCT
;  FILE REFERENCE: 11613.29USW1
;  CURRENT APPLICATION NUMBER: US/10/772,988
;  CURRENT FILING DATE:  2004-02-05
;  PRIOR APPLICATION NUMBER: US/09/637,746
;  PRIOR FILING DATE: 2000-08-11
;  PRIOR APPLICATION NUMBER: PCT/US99/04142
;  PRIOR FILING DATE: 1999-02-25
;  PRIOR APPLICATION NUMBER: US 60/079,567
;  PRIOR FILING DATE: 1998-03-27
;  PRIOR APPLICATION NUMBER: US 60/075,922
;  PRIOR FILING DATE: 1998-02-25
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-772-988-3

  Query Match             100.0%;  Score 51;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.23;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 23
US-10-479-541-5
; Sequence 5, Application US/10479541
; Publication No. US20040151723A1
; GENERAL INFORMATION:
;  APPLICANT: Kirin Beer Kabushiki Kaisha
;  TITLE OF INVENTION: Novel E7 antigen epitope from human papillomavirus and
;  TITLE OF INVENTION:  CD4+ T cells activated thereby
;  FILE REFERENCE: 137240PX
;  CURRENT APPLICATION NUMBER: US/10/479,541
;  CURRENT FILING DATE:  2003-12-04
;  PRIOR APPLICATION NUMBER: 173803/2001
;  PRIOR FILING DATE: 2001-06-08
;  NUMBER OF SEQ ID NOS: 5
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
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;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-479-541-5

  Query Match             100.0%;  Score 51;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.23;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 24
US-10-042-526A-4
; Sequence 4, Application US/10042526A
; Publication No. US20050031636A1
; GENERAL INFORMATION:
;  APPLICANT: GISSMANN, et al.
;  TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE FORMULATIONS AND METHODS OF USE
;  FILE REFERENCE: 27013/38150
;  CURRENT APPLICATION NUMBER: US/10/042,526A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: US 09/632,286
;  PRIOR FILING DATE: 2000-08-03
;  PRIOR APPLICATION NUMBER: US 08/944,368
;  PRIOR FILING DATE: 1997-10-06
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 4
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human Papilloma Virus
US-10-042-526A-4

  Query Match             100.0%;  Score 51;  DB 5;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.23;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 25
US-10-657-399-1
; Sequence 1, Application US/10657399
; Publication No. US20050032038A1
; GENERAL INFORMATION:
;  APPLICANT: Fisher, Christopher
;  APPLICANT:  He, Wanxia
;  TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
;  FILE REFERENCE: 28341/6216
;  CURRENT APPLICATION NUMBER: US/10/657,399
;  CURRENT FILING DATE:  2003-09-08
;  PRIOR APPLICATION NUMBER: US/09/728,466
;  PRIOR FILING DATE: 2000-12-01
;  PRIOR APPLICATION NUMBER: 09/382,616
;  PRIOR FILING DATE: 1999-08-25
;  NUMBER OF SEQ ID NOS: 43
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Papillomavirus sylvilagi
US-10-657-399-1

  Query Match             100.0%;  Score 51;  DB 5;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.23;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 26
US-10-858-384-12
; Sequence 12, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 12
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-10-858-384-12

  Query Match             100.0%;  Score 51;  DB 5;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.23;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 27
US-10-484-063-26
; Sequence 26, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 26
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-484-063-26

  Query Match             100.0%;  Score 51;  DB 5;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.23;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68
```

```
RESULT 28
US-10-343-448-5
; Sequence 5, Application US/10343448
; Publication No. US20050054820A1
; GENERAL INFORMATION:
;  APPLICANT: WU, Tzyy-Choou
;  APPLICANT:  HUNG, Chien-Fu
;  TITLE OF INVENTION: MOLECULAR VACCINE LINKING AN ENDOPLASMIC RETICULUM CHAPERONE
;  TITLE OF INVENTION:  POLYPEPTIDE TO AN ANTIGEN
;  FILE REFERENCE: 2240-186463
;  CURRENT APPLICATION NUMBER: US/10/343,448
;  CURRENT FILING DATE:  2003-01-31
;  PRIOR APPLICATION NUMBER: PCT/US01/24134
;  PRIOR FILING DATE: 2001-08-02
;  PRIOR APPLICATION NUMBER: US 60/222,902
;  PRIOR FILING DATE: 2000-08-03
;  NUMBER OF SEQ ID NOS: 7
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-343-448-5

  Query Match             100.0%;  Score 51;  DB 5;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.23;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 29
US-10-679-956-8
; Sequence 8, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/679,956
;  CURRENT FILING DATE:  2003-10-06
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-679-956-8

  Query Match             100.0%;  Score 51;  DB 5;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.23;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 30
US-10-367-057-17
; Sequence 17, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
;  APPLICANT: Cuthill, Scott;
;  APPLICANT:  Jackson, Amanda;
;  APPLICANT:  Lewin, David A.;
;  APPLICANT:  Ooi, Chean Eng
;  TITLE OF INVENTION: Complexes and Methods of Using Same
;  FILE REFERENCE: 21402-559
;  CURRENT APPLICATION NUMBER: US/10/367,057
;  CURRENT FILING DATE:  2003-02-14
;  PRIOR APPLICATION NUMBER: 60/256,911
;  PRIOR FILING DATE: 2002-02-14
;  NUMBER OF SEQ ID NOS: 198
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 17
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-367-057-17

  Query Match             100.0%;  Score 51;  DB 5;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.23;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 31
US-11-077-939-5
; Sequence 5, Application US/11077939
; Publication No. US20050196865A1
; GENERAL INFORMATION:
;  APPLICANT: Frazer, Ian Hector
;  TITLE OF INVENTION: Gene Expression System Based on Codon Translation Efficiency
;  FILE REFERENCE: 10338-11U1
;  CURRENT APPLICATION NUMBER: US/11/077,939
;  CURRENT FILING DATE:  2005-03-11
;  PRIOR APPLICATION NUMBER: PCT/AU2003/001200
;  PRIOR FILING DATE: 2003-09-12
;  PRIOR APPLICATION NUMBER: US 60/410410
;  PRIOR FILING DATE: 2002-09-13
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-11-077-939-5

  Query Match             100.0%;  Score 51;  DB 6;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.23;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 32
US-10-115-440-7
; Sequence 7, Application US/10115440
; Publication No. US20040086845A1
; GENERAL INFORMATION:
;  APPLICANT: WU, Tzyy-Choou
;  APPLICANT:  HUNG, Chien-Fu
;  TITLE OF INVENTION: SUPERIOR MOLECULAR VACCINE LINKING THE TRANSLOCATION DOMAIN OF A
;  TITLE OF INVENTION:  BACTERIAL TOXIN TO AN ANTIGEN
;  FILE REFERENCE: 02240-179934
;  CURRENT APPLICATION NUMBER: US/10/115,440
;  CURRENT FILING DATE:  2002-09-30
;  PRIOR APPLICATION NUMBER: US 60/281,003
;  PRIOR FILING DATE: 2001-04-04
;  PRIOR APPLICATION NUMBER: PCT/US00/41422
```

```
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: US 09/501,097
;  PRIOR FILING DATE: 2000-02-09
;  PRIOR APPLICATION NUMBER: US 09/421,608
;  PRIOR FILING DATE: 1999-10-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
;   LENGTH: 99
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-115-440-7

  Query Match            100.0%;  Score 51;  DB 4;  Length 99;
  Best Local Similarity   100.0%;  Pred. No. 0.23;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 33
US-10-472-724-4
; Sequence 4, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
;  APPLICANT: Cid-Arregui, Angel
;  APPLICANT:  Zur Hausen, Harald
;  TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
;  FILE REFERENCE: 4121-154
;  CURRENT APPLICATION NUMBER: US/10/472,724
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP02/03271
;  PRIOR FILING DATE: 2002-03-22
;  PRIOR APPLICATION NUMBER: EP 01107271.7
;  PRIOR FILING DATE: 2001-03-23
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
;   LENGTH: 111
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic Construct
US-10-472-724-4

  Query Match            100.0%;  Score 51;  DB 4;  Length 111;
  Best Local Similarity   100.0%;  Pred. No. 0.26;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         65 KCDSTLRLC 73


RESULT 34
US-10-267-311-12
; Sequence 12, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
;   LENGTH: 121
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-12

  Query Match            100.0%;  Score 51;  DB 4;  Length 121;
  Best Local Similarity   100.0%;  Pred. No. 0.28;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         83 KCDSTLRLC 91


RESULT 35
US-10-679-956-12
; Sequence 12, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/679,956
;  CURRENT FILING DATE:  2003-10-06
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
;   LENGTH: 121
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-679-956-12

  Query Match            100.0%;  Score 51;  DB 5;  Length 121;
  Best Local Similarity   100.0%;  Pred. No. 0.28;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         83 KCDSTLRLC 91


RESULT 36
US-11-072-288-2
; Sequence 2, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
;  APPLICANT: KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE: 017753-122
;  CURRENT APPLICATION NUMBER: US/11/072,288
;  CURRENT FILING DATE:  2005-03-07
;  PRIOR APPLICATION NUMBER: US/09/462,993
;  PRIOR FILING DATE: 2000-04-17
;  PRIOR APPLICATION NUMBER: PCT/FR98/01576
;  PRIOR FILING DATE: 1998-07-17
;  PRIOR APPLICATION NUMBER: FR 97/09152
;  PRIOR FILING DATE: 1997-07-18
;  NUMBER OF SEQ ID NOS: 23
```

; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 2
; LENGTH: 185
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derivated from human papillomavirus, strain
; OTHER INFORMATION: HPV-16, E7 fusion signals of the rabies
; OTHER INFORMATION: glycoprotein, clone E7*TMR.
US-11-072-288-2

Query Match 100.0%; Score 51; DB 6; Length 185;
Best Local Similarity 100.0%; Pred. No. 0.42;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCDSTLRLC 9
||||||||| 
Db 79 KCDSTLRLC 87

RESULT 37
US-10-267-311-35
; Sequence 35, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-35

Query Match 100.0%; Score 51; DB 4; Length 198;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCDSTLRLC 9
||||||||| 
Db 160 KCDSTLRLC 168

RESULT 38
US-10-679-956-35
; Sequence 35, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/679,956
; CURRENT FILING DATE: 2003-10-06
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-679-956-35

Query Match 100.0%; Score 51; DB 5; Length 198;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCDSTLRLC 9
||||||||| 
Db 160 KCDSTLRLC 168

RESULT 39
US-10-000-903-1
; Sequence 1, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-1

Query Match 100.0%; Score 51; DB 4; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCDSTLRLC 9
||||||||| 
Db 173 KCDSTLRLC 181

RESULT 40
US-10-000-903-8
; Sequence 8, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 8

; LENGTH: 220
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-8

Query Match 100.0%; Score 51; DB 4; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCDSTLRLC 9
||||||||||
Db 173 KCDSTLRLC 181

RESULT 41
US-10-899-771-1
; Sequence 1, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
; OTHER INFORMATION: influenzae B and E7 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-1

Query Match 100.0%; Score 51; DB 5; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCDSTLRLC 9
||||||||||
Db 173 KCDSTLRLC 181

RESULT 42
US-10-899-771-8
; Sequence 8, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
; OTHER INFORMATION: influenzae B and mutated E7 from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-8

Query Match 100.0%; Score 51; DB 5; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCDSTLRLC 9
||||||||||
Db 173 KCDSTLRLC 181

RESULT 43
US-10-000-903-12
; Sequence 12, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-12

Query Match 100.0%; Score 51; DB 4; Length 239;
Best Local Similarity 100.0%; Pred. No. 0.54;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCDSTLRLC 9
||||||||||
Db 192 KCDSTLRLC 200

RESULT 44
US-10-899-771-12
; Sequence 12, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28

```
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 12
;   LENGTH: 239
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
;   OTHER INFORMATION: pneumoniae and E7 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-12

  Query Match             100.0%;  Score 51;  DB 5;  Length 239;
  Best Local Similarity   100.0%;  Pred. No. 0.54;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db        192 KCDSTLRLC 200


RESULT 45
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 51;  DB 3;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.6;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db        220 KCDSTLRLC 228


RESULT 46
US-10-115-440-5
; Sequence 5, Application US/10115440
; Publication No. US20040086845A1
; GENERAL INFORMATION:
;  APPLICANT: WU, Tzyy-Choou
;  APPLICANT:  HUNG, Chien-Fu
;  TITLE OF INVENTION: SUPERIOR MOLECULAR VACCINE LINKING THE TRANSLOCATION DOMAIN OF A
;  TITLE OF INVENTION:  BACTERIAL TOXIN TO AN ANTIGEN
;  FILE REFERENCE: 02240-179934
;  CURRENT APPLICATION NUMBER: US/10/115,440
;  CURRENT FILING DATE:  2002-09-30
;  PRIOR APPLICATION NUMBER: US 60/281,003
;  PRIOR FILING DATE: 2001-04-04
;  PRIOR APPLICATION NUMBER: PCT/US00/41422
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: US 09/501,097
;  PRIOR FILING DATE: 2000-02-09
;  PRIOR APPLICATION NUMBER: US 09/421,608
;  PRIOR FILING DATE: 1999-10-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;   LENGTH: 289
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-115-440-5

  Query Match             100.0%;  Score 51;  DB 4;  Length 289;
  Best Local Similarity   100.0%;  Pred. No. 0.65;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db        233 KCDSTLRLC 241


RESULT 47
US-10-267-311-33
; Sequence 33, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 33
;   LENGTH: 295
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-33

  Query Match             100.0%;  Score 51;  DB 4;  Length 295;
  Best Local Similarity   100.0%;  Pred. No. 0.66;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db        257 KCDSTLRLC 265


RESULT 48
US-10-679-956-33
; Sequence 33, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/679,956
;  CURRENT FILING DATE:  2003-10-06
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 33
;   LENGTH: 295
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
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; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-679-956-33

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Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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US-10-267-311-25
; Sequence 25, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 324
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-25

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Best Local Similarity 100.0%; Pred. No. 0.72;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 286 KCDSTLRLC 294

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; Sequence 25, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/679,956
; CURRENT FILING DATE: 2003-10-06
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 25
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; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-679-956-25

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Best Local Similarity 100.0%; Pred. No. 0.72;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCDSTLRLC 9
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Db 286 KCDSTLRLC 294

Search completed: May 5, 2006, 08:39:49
Job time : 61 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:29:56 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-62
Perfect score: 51
Sequence: 1 KCDSTLRLC 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_New:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 3 | 51 | 100.0 | 98 | 8 | US-10-511-814-11 | Sequence 11, Appl |
| 4 | 51 | 100.0 | 98 | 9 | US-10-530-253-14 | Sequence 14, Appl |
| 5 | 51 | 100.0 | 98 | 11 | US-11-179-478-4 | Sequence 4, Appli |
| 6 | 51 | 100.0 | 248 | 9 | US-10-530-253-1 | Sequence 1, Appli |
| 7 | 51 | 100.0 | 248 | 9 | US-10-530-253-3 | Sequence 3, Appli |
| 8 | 51 | 100.0 | 248 | 9 | US-10-530-253-5 | Sequence 5, Appli |
| 9 | 51 | 100.0 | 248 | 9 | US-10-530-253-7 | Sequence 7, Appli |
| 10 | 51 | 100.0 | 248 | 9 | US-10-530-253-9 | Sequence 9, Appli |
| 11 | 51 | 100.0 | 248 | 9 | US-10-530-253-11 | Sequence 11, Appl |
| 12 | 51 | 100.0 | 256 | 11 | US-11-192-923A-2 | Sequence 2, Appli |
| 13 | 46 | 90.2 | 99 | 9 | US-10-530-253-34 | Sequence 34, Appl |
| 14 | 44 | 86.3 | 99 | 9 | US-10-530-253-30 | Sequence 30, Appl |
| 15 | 40 | 78.4 | 98 | 9 | US-10-530-253-28 | Sequence 28, Appl |
| 16 | 38 | 74.5 | 11 | 9 | US-10-530-061-656 | Sequence 656, App |
| 17 | 36 | 70.6 | 137 | 11 | US-11-188-298-5260 | Sequence 5260, Ap |
| 18 | 36 | 70.6 | 157 | 11 | US-11-079-463-6401 | Sequence 6401, Ap |
| 19 | 35 | 68.6 | 97 | 9 | US-10-530-253-29 | Sequence 29, Appl |
| 20 | 34 | 66.7 | 146 | 11 | US-11-072-512-3316 | Sequence 3316, Ap |
| 21 | 33 | 64.7 | 10 | 9 | US-10-530-061-858 | Sequence 858, App |
| 22 | 33 | 64.7 | 15 | 9 | US-10-530-061-1746 | Sequence 1746, Ap |
| 23 | 33 | 64.7 | 98 | 9 | US-10-530-253-36 | Sequence 36, Appl |
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| 33 | 31 | 60.8 | 45 | 11 | US-11-123-896-207 | Sequence 207, App |
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| 35 | 31 | 60.8 | 127 | 11 | US-11-172-740-2156 | Sequence 2156, Ap |
| 36 | 31 | 60.8 | 258 | 11 | US-11-188-298-9105 | Sequence 9105, Ap |
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| 45 | 31 | 60.8 | 485 | 11 | US-11-264-096-1730 | Sequence 1730, Ap |
| 46 | 31 | 60.8 | 485 | 11 | US-11-264-096-1731 | Sequence 1731, Ap |
| 47 | 31 | 60.8 | 485 | 11 | US-11-264-096-1732 | Sequence 1732, Ap |
| 48 | 31 | 60.8 | 512 | 11 | US-11-032-236-6 | Sequence 6, Appli |
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| 50 | 31 | 60.8 | 1219 | 11 | US-11-032-236-4 | Sequence 4, Appli |
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| 52 | 31 | 60.8 | 1238 | 11 | US-11-050-346-66 | Sequence 66, Appl |
| 53 | 31 | 60.8 | 1238 | 11 | US-11-103-077-21 | Sequence 21, Appl |
| 54 | 31 | 60.8 | 1238 | 11 | US-11-058-066-21 | Sequence 21, Appl |
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| 58 | 31 | 60.8 | 1395 | 11 | US-11-096-568A-33181 | Sequence 33181, A |
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| 65 | 30 | 58.8 | 36 | 11 | US-11-123-896-177 | Sequence 177, App |
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| 68 | 30 | 58.8 | 45 | 11 | US-11-123-896-144 | Sequence 144, App |
| 69 | 30 | 58.8 | 45 | 11 | US-11-123-896-150 | Sequence 150, App |
| 70 | 30 | 58.8 | 45 | 11 | US-11-123-896-153 | Sequence 153, App |
| 71 | 30 | 58.8 | 45 | 11 | US-11-123-896-156 | Sequence 156, App |
| 72 | 30 | 58.8 | 45 | 11 | US-11-123-896-159 | Sequence 159, App |
| 73 | 30 | 58.8 | 45 | 11 | US-11-123-896-162 | Sequence 162, App |
| 74 | 30 | 58.8 | 45 | 11 | US-11-123-896-165 | Sequence 165, App |
| 75 | 30 | 58.8 | 45 | 11 | US-11-123-896-168 | Sequence 168, App |
| 76 | 30 | 58.8 | 45 | 11 | US-11-123-896-171 | Sequence 171, App |
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| 84 | 30 | 58.8 | 45 | 11 | US-11-123-896-204 | Sequence 204, App |
| 85 | 30 | 58.8 | 45 | 11 | US-11-123-896-210 | Sequence 210, App |
| 86 | 30 | 58.8 | 47 | 11 | US-11-172-571-39 | Sequence 39, Appl |
| 87 | 30 | 58.8 | 64 | 11 | US-11-123-896-158 | Sequence 158, App |
| 88 | 30 | 58.8 | 68 | 11 | US-11-123-896-188 | Sequence 188, App |
| 89 | 30 | 58.8 | 72 | 11 | US-11-123-896-140 | Sequence 140, App |
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| 93 | 30 | 58.8 | 72 | 11 | US-11-123-896-155 | Sequence 155, App |
| 94 | 30 | 58.8 | 72 | 11 | US-11-123-896-161 | Sequence 161, App |

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| 97 | 30 | 58.8 | 72 | 11 | US-11-123-896-170 | Sequence 170, App |
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| 99 | 30 | 58.8 | 72 | 11 | US-11-123-896-179 | Sequence 179, App |
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| 107 | 30 | 58.8 | 85 | 11 | US-11-123-896-185 | Sequence 185, App |
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| 124 | 30 | 58.8 | 337 | 11 | US-11-157-930-5 | Sequence 5, Appli |
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| 156 | 29 | 56.9 | 14 | 11 | US-11-232-439-56 | Sequence 56, Appl |
| 157 | 29 | 56.9 | 16 | 9 | US-10-929-988-319 | Sequence 319, App |
| 158 | 29 | 56.9 | 41 | 11 | US-11-233-683-47 | Sequence 47, Appl |
| 159 | 29 | 56.9 | 47 | 11 | US-11-172-571-42 | Sequence 42, Appl |
| 160 | 29 | 56.9 | 48 | 11 | US-11-172-571-44 | Sequence 44, Appl |
| 161 | 29 | 56.9 | 49 | 11 | US-11-172-571-26 | Sequence 26, Appl |
| 162 | 29 | 56.9 | 52 | 11 | US-11-188-298-3867 | Sequence 3867, Ap |
| 163 | 29 | 56.9 | 76 | 11 | US-11-188-298-20066 | Sequence 20066, A |
| 164 | 29 | 56.9 | 85 | 11 | US-11-188-298-19214 | Sequence 19214, A |
| 165 | 29 | 56.9 | 86 | 11 | US-11-188-298-2781 | Sequence 2781, Ap |
| 166 | 29 | 56.9 | 86 | 11 | US-11-188-298-8724 | Sequence 8724, Ap |
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| 173 | 29 | 56.9 | 106 | 11 | US-11-172-571-25 | Sequence 25, Appl |
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| 175 | 29 | 56.9 | 110 | 11 | US-11-232-440-61 | Sequence 61, Appl |
| 176 | 29 | 56.9 | 110 | 11 | US-11-188-298-353 | Sequence 353, App |
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| 179 | 29 | 56.9 | 110 | 11 | US-11-188-298-8129 | Sequence 8129, Ap |
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| 195 | 29 | 56.9 | 134 | 11 | US-11-079-463-8653 | Sequence 8653, Ap |
| 196 | 29 | 56.9 | 183 | 11 | US-11-188-298-22542 | Sequence 22542, A |
| 197 | 29 | 56.9 | 183 | 11 | US-11-264-096-2225 | Sequence 2225, Ap |
| 198 | 29 | 56.9 | 211 | 11 | US-11-124-368A-187 | Sequence 187, App |
| 199 | 29 | 56.9 | 227 | 11 | US-11-096-568A-15842 | Sequence 15842, A |
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| 202 | 29 | 56.9 | 344 | 9 | US-10-922-232B-61 | Sequence 61, Appl |
| 203 | 29 | 56.9 | 351 | 11 | US-11-096-568A-24095 | Sequence 24095, A |
| 204 | 29 | 56.9 | 358 | 11 | US-11-174-819-89 | Sequence 89, Appl |
| 205 | 29 | 56.9 | 361 | 11 | US-11-096-568A-24094 | Sequence 24094, A |
| 206 | 29 | 56.9 | 362 | 11 | US-11-174-816-70 | Sequence 70, Appl |
| 207 | 29 | 56.9 | 377 | 11 | US-11-024-959-450 | Sequence 450, App |
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| 209 | 29 | 56.9 | 396 | 11 | US-11-096-568A-10448 | Sequence 10448, A |
| 210 | 29 | 56.9 | 401 | 11 | US-11-096-568A-3253 | Sequence 3253, Ap |
| 211 | 29 | 56.9 | 419 | 11 | US-11-045-004-2110 | Sequence 2110, Ap |
| 212 | 29 | 56.9 | 420 | 9 | US-10-131-826A-290 | Sequence 290, App |
| 213 | 29 | 56.9 | 420 | 9 | US-10-973-115B-290 | Sequence 290, App |
| 214 | 29 | 56.9 | 420 | 9 | US-10-218-784-122 | Sequence 122, App |
| 215 | 29 | 56.9 | 420 | 9 | US-10-219-061-122 | Sequence 122, App |
| 216 | 29 | 56.9 | 420 | 9 | US-10-219-062-122 | Sequence 122, App |
| 217 | 29 | 56.9 | 420 | 9 | US-10-219-064-122 | Sequence 122, App |
| 218 | 29 | 56.9 | 420 | 9 | US-10-233-134-122 | Sequence 122, App |
| 219 | 29 | 56.9 | 420 | 9 | US-10-137-873A-290 | Sequence 290, App |
| 220 | 29 | 56.9 | 420 | 9 | US-10-152-370-290 | Sequence 290, App |
| 221 | 29 | 56.9 | 420 | 11 | US-11-290-153-290 | Sequence 290, App |
| 222 | 29 | 56.9 | 425 | 9 | US-10-522-096-4 | Sequence 4, Appli |
| 223 | 29 | 56.9 | 426 | 9 | US-10-454-437-70 | Sequence 70, Appl |
| 224 | 29 | 56.9 | 426 | 9 | US-10-454-437-72 | Sequence 72, Appl |
| 225 | 29 | 56.9 | 437 | 11 | US-11-087-099-2535 | Sequence 2535, Ap |
| 226 | 29 | 56.9 | 449 | 11 | US-11-096-568A-20424 | Sequence 20424, A |
| 227 | 29 | 56.9 | 456 | 11 | US-11-096-568A-20423 | Sequence 20423, A |
| 228 | 29 | 56.9 | 472 | 11 | US-11-096-568A-20422 | Sequence 20422, A |
| 229 | 29 | 56.9 | 501 | 11 | US-11-188-298-11519 | Sequence 11519, A |
| 230 | 29 | 56.9 | 514 | 9 | US-10-840-688-2 | Sequence 2, Appli |
| 231 | 29 | 56.9 | 514 | 9 | US-10-840-688-3 | Sequence 3, Appli |
| 232 | 29 | 56.9 | 514 | 9 | US-10-840-688-4 | Sequence 4, Appli |
| 233 | 29 | 56.9 | 514 | 9 | US-10-840-688-5 | Sequence 5, Appli |
| 234 | 29 | 56.9 | 514 | 9 | US-10-840-688-6 | Sequence 6, Appli |
| 235 | 29 | 56.9 | 514 | 9 | US-10-840-688-7 | Sequence 7, Appli |
| 236 | 29 | 56.9 | 514 | 9 | US-10-840-688-8 | Sequence 8, Appli |
| 237 | 29 | 56.9 | 514 | 9 | US-10-840-688-9 | Sequence 9, Appli |
| 238 | 29 | 56.9 | 514 | 9 | US-10-840-688-10 | Sequence 10, Appl |
| 239 | 29 | 56.9 | 514 | 9 | US-10-840-688-11 | Sequence 11, Appl |
| 240 | 29 | 56.9 | 514 | 9 | US-10-840-688-12 | Sequence 12, Appl |

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| 241 | 29 | 56.9 | 514 | 9 | US-10-840-688-13 | Sequence 13, Appl |
| 242 | 29 | 56.9 | 514 | 9 | US-10-840-688-21 | Sequence 21, Appl |
| 243 | 29 | 56.9 | 582 | 11 | US-11-074-176-110 | Sequence 110, App |
| 244 | 29 | 56.9 | 603 | 9 | US-10-514-581-8 | Sequence 8, Appli |
| 245 | 29 | 56.9 | 603 | 9 | US-10-514-581-13 | Sequence 13, Appl |
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| 247 | 29 | 56.9 | 765 | 11 | US-11-087-099-6242 | Sequence 6242, Ap |
| 248 | 29 | 56.9 | 828 | 9 | US-10-745-586-199 | Sequence 199, App |
| 249 | 29 | 56.9 | 829 | 11 | US-11-096-568A-20149 | Sequence 20149, A |
| 250 | 29 | 56.9 | 843 | 11 | US-11-096-568A-20148 | Sequence 20148, A |
| 251 | 29 | 56.9 | 864 | 11 | US-11-096-568A-2472 | Sequence 2472, Ap |
| 252 | 29 | 56.9 | 876 | 11 | US-11-096-568A-20147 | Sequence 20147, A |
| 253 | 29 | 56.9 | 879 | 11 | US-11-096-568A-2471 | Sequence 2471, Ap |
| 254 | 29 | 56.9 | 911 | 9 | US-10-242-586-52 | Sequence 52, Appl |
| 255 | 29 | 56.9 | 911 | 9 | US-10-242-902-52 | Sequence 52, Appl |
| 256 | 29 | 56.9 | 911 | 9 | US-10-243-116-52 | Sequence 52, Appl |
| 257 | 29 | 56.9 | 911 | 9 | US-10-243-136-52 | Sequence 52, Appl |
| 258 | 29 | 56.9 | 911 | 9 | US-10-243-189-52 | Sequence 52, Appl |
| 259 | 29 | 56.9 | 911 | 9 | US-10-243-215-52 | Sequence 52, Appl |
| 260 | 29 | 56.9 | 911 | 9 | US-10-243-236-52 | Sequence 52, Appl |
| 261 | 29 | 56.9 | 911 | 9 | US-10-243-298-52 | Sequence 52, Appl |
| 262 | 29 | 56.9 | 911 | 9 | US-10-243-304-52 | Sequence 52, Appl |
| 263 | 29 | 56.9 | 911 | 9 | US-10-243-338-52 | Sequence 52, Appl |
| 264 | 29 | 56.9 | 911 | 9 | US-10-243-345-52 | Sequence 52, Appl |
| 265 | 29 | 56.9 | 911 | 9 | US-10-243-357-52 | Sequence 52, Appl |
| 266 | 29 | 56.9 | 911 | 9 | US-10-245-083-52 | Sequence 52, Appl |
| 267 | 29 | 56.9 | 911 | 9 | US-10-247-015-52 | Sequence 52, Appl |
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| 269 | 29 | 56.9 | 3597 | 11 | US-11-019-711-6 | Sequence 6, Appli |
| 270 | 29 | 56.9 | 3600 | 11 | US-11-019-711-2 | Sequence 2, Appli |
| 271 | 29 | 56.9 | 3635 | 11 | US-11-019-711-47 | Sequence 47, Appl |
| 272 | 29 | 56.9 | 3690 | 9 | US-10-995-561-1016 | Sequence 1016, Ap |
| 273 | 29 | 56.9 | 3714 | 9 | US-10-995-561-1015 | Sequence 1015, Ap |
| 274 | 29 | 56.9 | 3717 | 9 | US-10-821-234-1076 | Sequence 1076, Ap |
| 275 | 29 | 56.9 | 6738 | 9 | US-10-922-232B-56 | Sequence 56, Appl |
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| 277 | 28.5 | 55.9 | 20 | 11 | US-11-106-415-39 | Sequence 39, Appl |
| 278 | 28.5 | 55.9 | 20 | 11 | US-11-233-256-27 | Sequence 27, Appl |
| 279 | 28.5 | 55.9 | 20 | 11 | US-11-233-256-39 | Sequence 39, Appl |
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| 281 | 28.5 | 55.9 | 210 | 7 | US-09-978-360A-432 | Sequence 432, App |
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| 285 | 28 | 54.9 | 20 | 11 | US-11-233-256-37 | Sequence 37, Appl |
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| 288 | 28 | 54.9 | 47 | 11 | US-11-172-571-40 | Sequence 40, Appl |
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| 292 | 28 | 54.9 | 129 | 9 | US-10-519-390-15 | Sequence 15, Appl |
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| 294 | 28 | 54.9 | 129 | 11 | US-11-176-830-543 | Sequence 543, App |
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| 296 | 28 | 54.9 | 129 | 11 | US-11-176-830-545 | Sequence 545, App |
| 297 | 28 | 54.9 | 129 | 11 | US-11-176-830-546 | Sequence 546, App |
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| 305 | 28 | 54.9 | 129 | 11 | US-11-176-830-554 | Sequence 554, App |
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| 309 | 28 | 54.9 | 129 | 11 | US-11-176-830-558 | Sequence 558, App |
| 310 | 28 | 54.9 | 129 | 11 | US-11-176-830-559 | Sequence 559, App |
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| 313 | 28 | 54.9 | 129 | 11 | US-11-176-830-562 | Sequence 562, App |
| 314 | 28 | 54.9 | 129 | 11 | US-11-176-830-563 | Sequence 563, App |
| 315 | 28 | 54.9 | 129 | 11 | US-11-176-830-564 | Sequence 564, App |
| 316 | 28 | 54.9 | 129 | 11 | US-11-176-830-565 | Sequence 565, App |
| 317 | 28 | 54.9 | 129 | 11 | US-11-176-830-566 | Sequence 566, App |
| 318 | 28 | 54.9 | 129 | 11 | US-11-176-830-567 | Sequence 567, App |
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| 320 | 28 | 54.9 | 153 | 11 | US-11-174-398-8 | Sequence 8, Appli |
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| 323 | 28 | 54.9 | 176 | 11 | US-11-188-298-5715 | Sequence 5715, Ap |
| 324 | 28 | 54.9 | 186 | 11 | US-11-087-099-11979 | Sequence 11979, A |
| 325 | 28 | 54.9 | 195 | 11 | US-11-096-568A-10511 | Sequence 10511, A |
| 326 | 28 | 54.9 | 201 | 9 | US-10-821-234-1665 | Sequence 1665, Ap |
| 327 | 28 | 54.9 | 206 | 11 | US-11-096-568A-26544 | Sequence 26544, A |
| 328 | 28 | 54.9 | 210 | 7 | US-09-995-493-204 | Sequence 204, App |
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| 330 | 28 | 54.9 | 238 | 11 | US-11-096-568A-21438 | Sequence 21438, A |
| 331 | 28 | 54.9 | 240 | 11 | US-11-096-568A-21437 | Sequence 21437, A |
| 332 | 28 | 54.9 | 241 | 11 | US-11-096-568A-21436 | Sequence 21436, A |
| 333 | 28 | 54.9 | 242 | 11 | US-11-188-298-4046 | Sequence 4046, Ap |
| 334 | 28 | 54.9 | 255 | 11 | US-11-096-568A-5538 | Sequence 5538, Ap |
| 335 | 28 | 54.9 | 255 | 11 | US-11-026-396-5 | Sequence 5, Appli |
| 336 | 28 | 54.9 | 258 | 11 | US-11-096-568A-5537 | Sequence 5537, Ap |
| 337 | 28 | 54.9 | 273 | 11 | US-11-026-396-7 | Sequence 7, Appli |
| 338 | 28 | 54.9 | 280 | 9 | US-10-467-657-4208 | Sequence 4208, Ap |
| 339 | 28 | 54.9 | 281 | 11 | US-11-045-004-1189 | Sequence 1189, Ap |
| 340 | 28 | 54.9 | 293 | 11 | US-11-026-396-4 | Sequence 4, Appli |
| 341 | 28 | 54.9 | 295 | 11 | US-11-026-396-2 | Sequence 2, Appli |
| 342 | 28 | 54.9 | 299 | 11 | US-11-024-959-359 | Sequence 359, App |
| 343 | 28 | 54.9 | 299 | 11 | US-11-096-568A-4689 | Sequence 4689, Ap |
| 344 | 28 | 54.9 | 309 | 9 | US-10-524-647-128 | Sequence 128, App |
| 345 | 28 | 54.9 | 309 | 9 | US-10-524-972-116 | Sequence 116, App |
| 346 | 28 | 54.9 | 314 | 11 | US-11-096-568A-4688 | Sequence 4688, Ap |
| 347 | 28 | 54.9 | 319 | 11 | US-11-096-568A-15414 | Sequence 15414, A |
| 348 | 28 | 54.9 | 323 | 11 | US-11-087-099-7555 | Sequence 7555, Ap |
| 349 | 28 | 54.9 | 329 | 11 | US-11-139-425-3 | Sequence 3, Appli |
| 350 | 28 | 54.9 | 329 | 11 | US-11-172-740-244 | Sequence 244, App |
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| 353 | 28 | 54.9 | 348 | 11 | US-11-079-463-9506 | Sequence 9506, Ap |
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| 355 | 28 | 54.9 | 384 | 11 | US-11-096-568A-21965 | Sequence 21965, A |
| 356 | 28 | 54.9 | 384 | 11 | US-11-172-740-475 | Sequence 475, App |
| 357 | 28 | 54.9 | 396 | 11 | US-11-079-463-6058 | Sequence 6058, Ap |
| 358 | 28 | 54.9 | 408 | 11 | US-11-096-568A-16345 | Sequence 16345, A |
| 359 | 28 | 54.9 | 420 | 11 | US-11-096-568A-16344 | Sequence 16344, A |
| 360 | 28 | 54.9 | 423 | 11 | US-11-070-080-16 | Sequence 16, Appl |
| 361 | 28 | 54.9 | 428 | 9 | US-10-506-454-628 | Sequence 628, App |
| 362 | 28 | 54.9 | 433 | 11 | US-11-055-822-154 | Sequence 154, App |
| 363 | 28 | 54.9 | 437 | 11 | US-11-096-568A-16343 | Sequence 16343, A |
| 364 | 28 | 54.9 | 446 | 11 | US-11-096-568A-21964 | Sequence 21964, A |
| 365 | 28 | 54.9 | 449 | 11 | US-11-096-568A-19441 | Sequence 19441, A |
| 366 | 28 | 54.9 | 455 | 11 | US-11-096-568A-19440 | Sequence 19440, A |
| 367 | 28 | 54.9 | 457 | 11 | US-11-096-568A-19439 | Sequence 19439, A |
| 368 | 28 | 54.9 | 461 | 9 | US-10-784-004-393 | Sequence 393, App |
| 369 | 28 | 54.9 | 461 | 11 | US-11-188-298-11652 | Sequence 11652, A |
| 370 | 28 | 54.9 | 492 | 11 | US-11-188-298-15299 | Sequence 15299, A |
| 371 | 28 | 54.9 | 497 | 11 | US-11-096-568A-21963 | Sequence 21963, A |
| 372 | 28 | 54.9 | 501 | 8 | US-10-505-928-121 | Sequence 121, App |
| 373 | 28 | 54.9 | 501 | 9 | US-10-510-903-14 | Sequence 14, Appl |
| 374 | 28 | 54.9 | 551 | 11 | US-11-087-099-8478 | Sequence 8478, Ap |
| 375 | 28 | 54.9 | 576 | 11 | US-11-045-004-2670 | Sequence 2670, Ap |
| 376 | 28 | 54.9 | 647 | 11 | US-11-188-298-11549 | Sequence 11549, A |
| 377 | 28 | 54.9 | 664 | 11 | US-11-080-991-40 | Sequence 40, Appl |
| 378 | 28 | 54.9 | 665 | 11 | US-11-098-686-10601 | Sequence 10601, A |
| 379 | 28 | 54.9 | 692 | 11 | US-11-024-959-486 | Sequence 486, App |
| 380 | 28 | 54.9 | 754 | 11 | US-11-197-133A-18 | Sequence 18, Appl |
| 381 | 28 | 54.9 | 757 | 11 | US-11-126-022-32 | Sequence 32, Appl |
| 382 | 28 | 54.9 | 808 | 9 | US-10-523-503-24 | Sequence 24, Appl |
| 383 | 28 | 54.9 | 879 | 9 | US-10-877-346-17 | Sequence 17, Appl |
| 384 | 28 | 54.9 | 879 | 9 | US-10-877-346-52 | Sequence 52, Appl |
| 385 | 28 | 54.9 | 879 | 9 | US-10-877-346-53 | Sequence 53, Appl |
| 386 | 28 | 54.9 | 879 | 9 | US-10-877-346-54 | Sequence 54, Appl |

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| 387 | 28 | 54.9 | 911 | 11 | US-11-096-568A-29958 | Sequence 29958, A |
| 388 | 28 | 54.9 | 968 | 11 | US-11-096-568A-31193 | Sequence 31193, A |
| 389 | 28 | 54.9 | 972 | 11 | US-11-096-568A-31192 | Sequence 31192, A |
| 390 | 28 | 54.9 | 994 | 11 | US-11-096-568A-31191 | Sequence 31191, A |
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| 393 | 28 | 54.9 | 1150 | 9 | US-10-821-234-1083 | Sequence 1083, Ap |
| 394 | 28 | 54.9 | 1419 | 11 | US-11-114-962-3 | Sequence 3, Appli |
| 395 | 28 | 54.9 | 1451 | 9 | US-10-995-561-829 | Sequence 829, App |
| 396 | 28 | 54.9 | 1590 | 9 | US-10-055-877-146 | Sequence 146, App |
| 397 | 28 | 54.9 | 1669 | 9 | US-10-330-773-392 | Sequence 392, App |
| 398 | 28 | 54.9 | 1690 | 9 | US-10-330-773-389 | Sequence 389, App |
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| 405 | 27 | 52.9 | 14 | 11 | US-11-232-439-38 | Sequence 38, Appl |
| 406 | 27 | 52.9 | 14 | 11 | US-11-232-439-397 | Sequence 397, App |
| 407 | 27 | 52.9 | 15 | 9 | US-10-530-061-1712 | Sequence 1712, Ap |
| 408 | 27 | 52.9 | 44 | 11 | US-11-123-896-102 | Sequence 102, App |
| 409 | 27 | 52.9 | 44 | 11 | US-11-123-896-108 | Sequence 108, App |
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| 411 | 27 | 52.9 | 55 | 9 | US-10-467-657-8693 | Sequence 8693, Ap |
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| 413 | 27 | 52.9 | 69 | 11 | US-11-123-896-107 | Sequence 107, App |
| 414 | 27 | 52.9 | 80 | 9 | US-10-467-657-1620 | Sequence 1620, Ap |
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| 416 | 27 | 52.9 | 98 | 11 | US-11-096-568A-13372 | Sequence 13372, A |
| 417 | 27 | 52.9 | 107 | 11 | US-11-188-298-12105 | Sequence 12105, A |
| 418 | 27 | 52.9 | 114 | 11 | US-11-096-568A-13371 | Sequence 13371, A |
| 419 | 27 | 52.9 | 116 | 11 | US-11-172-740-1935 | Sequence 1935, Ap |
| 420 | 27 | 52.9 | 120 | 11 | US-11-096-568A-11876 | Sequence 11876, A |
| 421 | 27 | 52.9 | 127 | 9 | US-10-523-362-48 | Sequence 48, Appl |
| 422 | 27 | 52.9 | 132 | 11 | US-11-079-463-8101 | Sequence 8101, Ap |
| 423 | 27 | 52.9 | 151 | 9 | US-10-915-002-169 | Sequence 169, App |
| 424 | 27 | 52.9 | 155 | 11 | US-11-018-868-48 | Sequence 48, Appl |
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| 431 | 27 | 52.9 | 178 | 9 | US-10-194-487-542 | Sequence 542, App |
| 432 | 27 | 52.9 | 178 | 9 | US-10-195-883-542 | Sequence 542, App |
| 433 | 27 | 52.9 | 178 | 9 | US-10-195-888-542 | Sequence 542, App |
| 434 | 27 | 52.9 | 178 | 9 | US-10-195-889-542 | Sequence 542, App |
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| 453 | 27 | 52.9 | 234 | 9 | US-10-506-454-519 | Sequence 519, App |
| 454 | 27 | 52.9 | 234 | 10 | US-11-301-554-1825 | Sequence 1825, Ap |
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| 469 | 27 | 52.9 | 250 | 11 | US-11-188-298-9972 | Sequence 9972, Ap |
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| 471 | 27 | 52.9 | 272 | 11 | US-11-188-298-1603 | Sequence 1603, Ap |
| 472 | 27 | 52.9 | 274 | 8 | US-10-370-959-83 | Sequence 83, Appl |
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| 475 | 27 | 52.9 | 288 | 11 | US-11-096-568A-12248 | Sequence 12248, A |
| 476 | 27 | 52.9 | 294 | 11 | US-11-096-568A-33809 | Sequence 33809, A |
| 477 | 27 | 52.9 | 303 | 11 | US-11-096-568A-20727 | Sequence 20727, A |
| 478 | 27 | 52.9 | 309 | 11 | US-11-096-568A-31451 | Sequence 31451, A |
| 479 | 27 | 52.9 | 312 | 9 | US-10-718-264-10 | Sequence 10, Appl |
| 480 | 27 | 52.9 | 312 | 9 | US-10-718-264-165 | Sequence 165, App |
| 481 | 27 | 52.9 | 312 | 9 | US-10-718-264-166 | Sequence 166, App |
| 482 | 27 | 52.9 | 312 | 9 | US-10-718-264-10 | Sequence 10, Appl |
| 483 | 27 | 52.9 | 312 | 9 | US-10-718-264-165 | Sequence 165, App |
| 484 | 27 | 52.9 | 312 | 9 | US-10-718-264-166 | Sequence 166, App |
| 485 | 27 | 52.9 | 312 | 11 | US-11-217-562-4 | Sequence 4, Appli |
| 486 | 27 | 52.9 | 312 | 11 | US-11-107-219-4 | Sequence 4, Appli |
| 487 | 27 | 52.9 | 312 | 11 | US-11-176-667-10 | Sequence 10, Appl |
| 488 | 27 | 52.9 | 312 | 11 | US-11-176-667-165 | Sequence 165, App |
| 489 | 27 | 52.9 | 312 | 11 | US-11-176-667-166 | Sequence 166, App |
| 490 | 27 | 52.9 | 314 | 9 | US-10-718-264-24 | Sequence 24, Appl |
| 491 | 27 | 52.9 | 314 | 9 | US-10-718-264-24 | Sequence 24, Appl |
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| 493 | 27 | 52.9 | 314 | 11 | US-11-107-219-3 | Sequence 3, Appli |
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| 505 | 27 | 52.9 | 353 | 9 | US-10-973-115B-296 | Sequence 296, App |
| 506 | 27 | 52.9 | 353 | 9 | US-10-137-873A-296 | Sequence 296, App |
| 507 | 27 | 52.9 | 353 | 9 | US-10-152-370-296 | Sequence 296, App |
| 508 | 27 | 52.9 | 353 | 11 | US-11-096-568A-29745 | Sequence 29745, A |
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| 515 | 27 | 52.9 | 364 | 11 | US-11-188-298-16470 | Sequence 16470, A |
| 516 | 27 | 52.9 | 366 | 11 | US-11-188-298-16522 | Sequence 16522, A |
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| 524 | 27 | 52.9 | 380 | 11 | US-11-096-568A-18516 | Sequence 18516, A |
| 525 | 27 | 52.9 | 386 | 9 | US-10-501-035-286 | Sequence 286, App |
| 526 | 27 | 52.9 | 386 | 11 | US-11-096-568A-18911 | Sequence 18911, A |
| 527 | 27 | 52.9 | 387 | 11 | US-11-235-621-15 | Sequence 15, Appl |
| 528 | 27 | 52.9 | 391 | 9 | US-10-784-004-1228 | Sequence 1228, Ap |
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| 531 | 27 | 52.9 | 394 | 11 | US-11-087-099-5320 | Sequence 5320, Ap |
| 532 | 27 | 52.9 | 397 | 11 | US-11-096-568A-17076 | Sequence 17076, A |

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| 534 | 27 | 52.9 | 399 | 11 | US-11-072-175-183 | Sequence 183, App |
| 535 | 27 | 52.9 | 407 | 8 | US-10-505-928-109 | Sequence 109, App |
| 536 | 27 | 52.9 | 408 | 11 | US-11-096-568A-17075 | Sequence 17075, A |
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| 538 | 27 | 52.9 | 411 | 11 | US-11-079-463-8798 | Sequence 8798, Ap |
| 539 | 27 | 52.9 | 415 | 11 | US-11-096-568A-18910 | Sequence 18910, A |
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| 541 | 27 | 52.9 | 420 | 11 | US-11-096-568A-18515 | Sequence 18515, A |
| 542 | 27 | 52.9 | 426 | 11 | US-11-186-284-89 | Sequence 89, Appl |
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| 546 | 27 | 52.9 | 439 | 11 | US-11-096-568A-1216 | Sequence 1216, Ap |
| 547 | 27 | 52.9 | 445 | 9 | US-10-821-234-959 | Sequence 959, App |
| 548 | 27 | 52.9 | 452 | 11 | US-11-096-568A-18909 | Sequence 18909, A |
| 549 | 27 | 52.9 | 465 | 11 | US-11-169-041-173 | Sequence 173, App |
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| 552 | 27 | 52.9 | 492 | 11 | US-11-096-568A-29641 | Sequence 29641, A |
| 553 | 27 | 52.9 | 494 | 11 | US-11-087-099-9605 | Sequence 9605, Ap |
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| 555 | 27 | 52.9 | 501 | 11 | US-11-087-099-1586 | Sequence 1586, Ap |
| 556 | 27 | 52.9 | 501 | 11 | US-11-188-298-12516 | Sequence 12516, A |
| 557 | 27 | 52.9 | 508 | 11 | US-11-268-342-2 | Sequence 2, Appli |
| 558 | 27 | 52.9 | 508 | 11 | US-11-188-298-15690 | Sequence 15690, A |
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| 573 | 27 | 52.9 | 626 | 11 | US-11-050-346-19 | Sequence 19, Appl |
| 574 | 27 | 52.9 | 633 | 9 | US-10-467-657-6628 | Sequence 6628, Ap |
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| 576 | 27 | 52.9 | 699 | 11 | US-11-235-621-9 | Sequence 9, Appli |
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| 579 | 27 | 52.9 | 753 | 11 | US-11-186-284-153 | Sequence 153, App |
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| 581 | 27 | 52.9 | 790 | 9 | US-10-973-115B-204 | Sequence 204, App |
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| 585 | 27 | 52.9 | 808 | 11 | US-11-072-512-3401 | Sequence 3401, Ap |
| 586 | 27 | 52.9 | 854 | 9 | US-10-511-657-4 | Sequence 4, Appli |
| 587 | 27 | 52.9 | 868 | 11 | US-11-235-621-11 | Sequence 11, Appl |
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| 594 | 27 | 52.9 | 1066 | 11 | US-11-169-041-148 | Sequence 148, App |
| 595 | 27 | 52.9 | 1067 | 11 | US-11-209-137-3 | Sequence 3, Appli |
| 596 | 27 | 52.9 | 1067 | 11 | US-11-054-912-3 | Sequence 3, Appli |
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| 598 | 27 | 52.9 | 1071 | 11 | US-11-043-752-44 | Sequence 44, Appl |
| 599 | 27 | 52.9 | 1097 | 9 | US-10-995-561-781 | Sequence 781, App |
| 600 | 27 | 52.9 | 1159 | 11 | US-11-194-246-439 | Sequence 439, App |
| 601 | 27 | 52.9 | 1170 | 8 | US-10-511-937-3007 | Sequence 3007, Ap |
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| 604 | 27 | 52.9 | 1172 | 11 | US-11-186-284-203 | Sequence 203, App |
| 605 | 27 | 52.9 | 1193 | 11 | US-11-022-478-8 | Sequence 8, Appli |
| 606 | 27 | 52.9 | 1218 | 9 | US-10-501-035-303 | Sequence 303, App |
| 607 | 27 | 52.9 | 1218 | 11 | US-11-078-735-20 | Sequence 20, Appl |
| 608 | 27 | 52.9 | 1218 | 11 | US-11-050-346-65 | Sequence 65, Appl |
| 609 | 27 | 52.9 | 1218 | 11 | US-11-103-077-20 | Sequence 20, Appl |
| 610 | 27 | 52.9 | 1218 | 11 | US-11-072-175-155 | Sequence 155, App |
| 611 | 27 | 52.9 | 1218 | 11 | US-11-022-478-4 | Sequence 4, Appli |
| 612 | 27 | 52.9 | 1218 | 11 | US-11-209-137-1 | Sequence 1, Appli |
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| 614 | 27 | 52.9 | 1218 | 11 | US-11-058-066-20 | Sequence 20, Appl |
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| 617 | 27 | 52.9 | 1322 | 11 | US-11-296-294-19 | Sequence 19, Appl |
| 618 | 27 | 52.9 | 1353 | 11 | US-11-296-294-16 | Sequence 16, Appl |
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| 621 | 27 | 52.9 | 1378 | 11 | US-11-296-294-18 | Sequence 18, Appl |
| 622 | 27 | 52.9 | 1453 | 11 | US-11-096-568A-30749 | Sequence 30749, A |
| 623 | 27 | 52.9 | 1483 | 9 | US-10-506-513-4 | Sequence 4, Appli |
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| 625 | 27 | 52.9 | 1555 | 11 | US-11-096-568A-30748 | Sequence 30748, A |
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| 629 | 27 | 52.9 | 2871 | 11 | US-11-169-041-131 | Sequence 131, App |
| 630 | 27 | 52.9 | 3002 | 9 | US-10-821-234-916 | Sequence 916, App |
| 631 | 27 | 52.9 | 4544 | 9 | US-10-501-035-214 | Sequence 214, App |
| 632 | 27 | 52.9 | 4544 | 11 | US-11-076-427A-32 | Sequence 32, Appl |
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| 634 | 26.5 | 52.0 | 478 | 9 | US-10-821-234-915 | Sequence 915, App |
| 635 | 26.5 | 52.0 | 951 | 11 | US-11-121-438-14 | Sequence 14, Appl |
| 636 | 26.5 | 52.0 | 1018 | 11 | US-11-067-121-17 | Sequence 17, Appl |
| 637 | 26.5 | 52.0 | 1036 | 9 | US-10-131-826A-142 | Sequence 142, App |
| 638 | 26.5 | 52.0 | 1036 | 9 | US-10-973-115B-142 | Sequence 142, App |
| 639 | 26.5 | 52.0 | 1036 | 9 | US-10-137-873A-142 | Sequence 142, App |
| 640 | 26.5 | 52.0 | 1036 | 9 | US-10-152-370-142 | Sequence 142, App |
| 641 | 26.5 | 52.0 | 1036 | 11 | US-11-290-153-142 | Sequence 142, App |
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| 643 | 26 | 51.0 | 9 | 9 | US-10-982-145-94 | Sequence 94, Appl |
| 644 | 26 | 51.0 | 9 | 9 | US-10-982-145-105 | Sequence 105, App |
| 645 | 26 | 51.0 | 9 | 9 | US-10-982-145-112 | Sequence 112, App |
| 646 | 26 | 51.0 | 9 | 9 | US-10-982-145-119 | Sequence 119, App |
| 647 | 26 | 51.0 | 13 | 11 | US-11-232-439-34 | Sequence 34, Appl |
| 648 | 26 | 51.0 | 13 | 11 | US-11-232-439-40 | Sequence 40, Appl |
| 649 | 26 | 51.0 | 14 | 11 | US-11-232-439-29 | Sequence 29, Appl |
| 650 | 26 | 51.0 | 14 | 11 | US-11-232-439-37 | Sequence 37, Appl |
| 651 | 26 | 51.0 | 14 | 11 | US-11-232-439-54 | Sequence 54, Appl |
| 652 | 26 | 51.0 | 17 | 9 | US-10-929-988-473 | Sequence 473, App |
| 653 | 26 | 51.0 | 29 | 9 | US-10-467-657-6316 | Sequence 6316, Ap |
| 654 | 26 | 51.0 | 36 | 9 | US-10-957-351-215 | Sequence 215, App |
| 655 | 26 | 51.0 | 37 | 9 | US-10-957-351-135 | Sequence 135, App |
| 656 | 26 | 51.0 | 37 | 11 | US-11-121-301-29 | Sequence 29, Appl |
| 657 | 26 | 51.0 | 47 | 11 | US-11-172-571-17 | Sequence 17, Appl |
| 658 | 26 | 51.0 | 47 | 11 | US-11-172-571-41 | Sequence 41, Appl |
| 659 | 26 | 51.0 | 47 | 11 | US-11-172-571-43 | Sequence 43, Appl |
| 660 | 26 | 51.0 | 49 | 11 | US-11-172-571-16 | Sequence 16, Appl |
| 661 | 26 | 51.0 | 56 | 9 | US-10-467-657-4332 | Sequence 4332, Ap |
| 662 | 26 | 51.0 | 67 | 11 | US-11-172-740-1843 | Sequence 1843, Ap |
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| 665 | 26 | 51.0 | 77 | 11 | US-11-096-568A-10064 | Sequence 10064, A |
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| 667 | 26 | 51.0 | 80 | 11 | US-11-188-298-16979 | Sequence 16979, A |
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| 670 | 26 | 51.0 | 102 | 11 | US-11-072-512-2247 | Sequence 2247, Ap |
| 671 | 26 | 51.0 | 106 | 11 | US-11-096-568A-10063 | Sequence 10063, A |
| 672 | 26 | 51.0 | 108 | 11 | US-11-188-298-9803 | Sequence 9803, Ap |
| 673 | 26 | 51.0 | 109 | 11 | US-11-045-004-793 | Sequence 793, App |
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| 675 | 26 | 51.0 | 112 | 11 | US-11-188-298-21450 | Sequence 21450, A |
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| 678 | 26 | 51.0 | 125 | 11 | US-11-079-463-8672 | Sequence 8672, Ap |

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| 679 | 26 | 51.0 | 129 | 11 | US-11-172-740-2155 | Sequence 2155, Ap |
| 680 | 26 | 51.0 | 136 | 11 | US-11-188-298-4178 | Sequence 4178, Ap |
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| 682 | 26 | 51.0 | 157 | 11 | US-11-188-298-17711 | Sequence 17711, A |
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| 685 | 26 | 51.0 | 173 | 11 | US-11-072-512-3186 | Sequence 3186, Ap |
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| 687 | 26 | 51.0 | 181 | 11 | US-11-188-298-5058 | Sequence 5058, Ap |
| 688 | 26 | 51.0 | 198 | 11 | US-11-096-568A-19296 | Sequence 19296, A |
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| 690 | 26 | 51.0 | 205 | 11 | US-11-188-298-8122 | Sequence 8122, Ap |
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| 698 | 26 | 51.0 | 214 | 11 | US-11-087-099-2532 | Sequence 2532, Ap |
| 699 | 26 | 51.0 | 214 | 11 | US-11-087-099-2638 | Sequence 2638, Ap |
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| 701 | 26 | 51.0 | 214 | 11 | US-11-188-298-954 | Sequence 954, App |
| 702 | 26 | 51.0 | 215 | 11 | US-11-087-099-3283 | Sequence 3283, Ap |
| 703 | 26 | 51.0 | 217 | 11 | US-11-250-759-272 | Sequence 272, App |
| 704 | 26 | 51.0 | 220 | 11 | US-11-087-099-9763 | Sequence 9763, Ap |
| 705 | 26 | 51.0 | 224 | 11 | US-11-188-298-12069 | Sequence 12069, A |
| 706 | 26 | 51.0 | 227 | 11 | US-11-087-099-451 | Sequence 451, App |
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| 708 | 26 | 51.0 | 234 | 11 | US-11-172-740-1333 | Sequence 1333, Ap |
| 709 | 26 | 51.0 | 238 | 11 | US-11-188-298-18907 | Sequence 18907, A |
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| 711 | 26 | 51.0 | 240 | 11 | US-11-188-298-2177 | Sequence 2177, Ap |
| 712 | 26 | 51.0 | 240 | 11 | US-11-188-298-14877 | Sequence 14877, A |
| 713 | 26 | 51.0 | 243 | 11 | US-11-250-759-269 | Sequence 269, App |
| 714 | 26 | 51.0 | 243 | 11 | US-11-250-759-270 | Sequence 270, App |
| 715 | 26 | 51.0 | 243 | 11 | US-11-250-759-271 | Sequence 271, App |
| 716 | 26 | 51.0 | 247 | 11 | US-11-201-774-2 | Sequence 2, Appli |
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| 718 | 26 | 51.0 | 250 | 11 | US-11-172-740-823 | Sequence 823, App |
| 719 | 26 | 51.0 | 250 | 11 | US-11-172-740-1721 | Sequence 1721, Ap |
| 720 | 26 | 51.0 | 253 | 11 | US-11-087-099-4911 | Sequence 4911, Ap |
| 721 | 26 | 51.0 | 259 | 11 | US-11-172-740-947 | Sequence 947, App |
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| 723 | 26 | 51.0 | 266 | 11 | US-11-072-512-3891 | Sequence 3891, Ap |
| 724 | 26 | 51.0 | 267 | 11 | US-11-087-099-5429 | Sequence 5429, Ap |
| 725 | 26 | 51.0 | 274 | 11 | US-11-087-099-4342 | Sequence 4342, Ap |
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| 727 | 26 | 51.0 | 286 | 11 | US-11-188-298-15502 | Sequence 15502, A |
| 728 | 26 | 51.0 | 286 | 11 | US-11-188-298-22210 | Sequence 22210, A |
| 729 | 26 | 51.0 | 291 | 9 | US-10-527-500-43 | Sequence 43, Appl |
| 730 | 26 | 51.0 | 292 | 11 | US-11-188-298-8628 | Sequence 8628, Ap |
| 731 | 26 | 51.0 | 293 | 9 | US-10-527-500-77 | Sequence 77, Appl |
| 732 | 26 | 51.0 | 295 | 11 | US-11-087-099-8551 | Sequence 8551, Ap |
| 733 | 26 | 51.0 | 297 | 9 | US-10-511-989-165 | Sequence 165, App |
| 734 | 26 | 51.0 | 298 | 9 | US-10-467-657-4362 | Sequence 4362, Ap |
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| 739 | 26 | 51.0 | 308 | 11 | US-11-172-740-1722 | Sequence 1722, Ap |
| 740 | 26 | 51.0 | 314 | 11 | US-11-087-099-9832 | Sequence 9832, Ap |
| 741 | 26 | 51.0 | 318 | 11 | US-11-096-568A-8399 | Sequence 8399, Ap |
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| 744 | 26 | 51.0 | 324 | 11 | US-11-087-099-4433 | Sequence 4433, Ap |
| 745 | 26 | 51.0 | 324 | 11 | US-11-188-298-15103 | Sequence 15103, A |
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| 747 | 26 | 51.0 | 333 | 9 | US-10-454-437-392 | Sequence 392, App |
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| 754 | 26 | 51.0 | 342 | 11 | US-11-096-568A-6252 | Sequence 6252, Ap |
| 755 | 26 | 51.0 | 345 | 11 | US-11-087-099-6778 | Sequence 6778, Ap |
| 756 | 26 | 51.0 | 345 | 11 | US-11-087-099-10622 | Sequence 10622, A |
| 757 | 26 | 51.0 | 345 | 11 | US-11-087-099-11205 | Sequence 11205, A |
| 758 | 26 | 51.0 | 345 | 11 | US-11-264-627-6 | Sequence 6, Appli |
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| 760 | 26 | 51.0 | 347 | 11 | US-11-096-568A-16579 | Sequence 16579, A |
| 761 | 26 | 51.0 | 348 | 11 | US-11-087-099-6233 | Sequence 6233, Ap |
| 762 | 26 | 51.0 | 349 | 11 | US-11-087-099-9072 | Sequence 9072, Ap |
| 763 | 26 | 51.0 | 350 | 11 | US-11-024-959-379 | Sequence 379, App |
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| 765 | 26 | 51.0 | 353 | 8 | US-10-322-836-38 | Sequence 38, Appl |
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| 768 | 26 | 51.0 | 358 | 11 | US-11-087-099-8360 | Sequence 8360, Ap |
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| 770 | 26 | 51.0 | 360 | 11 | US-11-188-298-11821 | Sequence 11821, A |
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| 772 | 26 | 51.0 | 365 | 11 | US-11-108-528-76 | Sequence 76, Appl |
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| 774 | 26 | 51.0 | 366 | 9 | US-10-329-258-27 | Sequence 27, Appl |
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| 777 | 26 | 51.0 | 366 | 11 | US-11-087-099-6377 | Sequence 6377, Ap |
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| 780 | 26 | 51.0 | 371 | 11 | US-11-079-463-9900 | Sequence 9900, Ap |
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| 793 | 26 | 51.0 | 385 | 11 | US-11-087-099-7112 | Sequence 7112, Ap |
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| 795 | 26 | 51.0 | 389 | 11 | US-11-087-099-10018 | Sequence 10018, A |
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| 798 | 26 | 51.0 | 390 | 11 | US-11-087-099-7953 | Sequence 7953, Ap |
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| 801 | 26 | 51.0 | 391 | 11 | US-11-087-099-4105 | Sequence 4105, Ap |
| 802 | 26 | 51.0 | 391 | 11 | US-11-087-099-6831 | Sequence 6831, Ap |
| 803 | 26 | 51.0 | 391 | 11 | US-11-087-099-11571 | Sequence 11571, A |
| 804 | 26 | 51.0 | 391 | 11 | US-11-087-099-12271 | Sequence 12271, A |
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| 806 | 26 | 51.0 | 392 | 11 | US-11-087-099-774 | Sequence 774, App |
| 807 | 26 | 51.0 | 392 | 11 | US-11-087-099-862 | Sequence 862, App |
| 808 | 26 | 51.0 | 392 | 11 | US-11-087-099-870 | Sequence 870, App |
| 809 | 26 | 51.0 | 392 | 11 | US-11-087-099-884 | Sequence 884, App |
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| 811 | 26 | 51.0 | 392 | 11 | US-11-087-099-1122 | Sequence 1122, Ap |
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| 813 | 26 | 51.0 | 392 | 11 | US-11-087-099-1690 | Sequence 1690, Ap |
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| 815 | 26 | 51.0 | 392 | 11 | US-11-087-099-1928 | Sequence 1928, Ap |
| 816 | 26 | 51.0 | 392 | 11 | US-11-087-099-2084 | Sequence 2084, Ap |
| 817 | 26 | 51.0 | 392 | 11 | US-11-087-099-2178 | Sequence 2178, Ap |
| 818 | 26 | 51.0 | 392 | 11 | US-11-087-099-2325 | Sequence 2325, Ap |
| 819 | 26 | 51.0 | 392 | 11 | US-11-087-099-2767 | Sequence 2767, Ap |
| 820 | 26 | 51.0 | 392 | 11 | US-11-087-099-2863 | Sequence 2863, Ap |
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| 822 | 26 | 51.0 | 392 | 11 | US-11-087-099-3142 | Sequence 3142, Ap |
| 823 | 26 | 51.0 | 392 | 11 | US-11-087-099-3144 | Sequence 3144, Ap |
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| 828 | 26 | 51.0 | 392 | 11 | US-11-087-099-3878 | Sequence 3878, Ap |
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| 835 | 26 | 51.0 | 392 | 11 | US-11-087-099-4951 | Sequence 4951, Ap |
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| 848 | 26 | 51.0 | 392 | 11 | US-11-087-099-6416 | Sequence 6416, Ap |
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| 873 | 26 | 51.0 | 392 | 11 | US-11-087-099-10100 | Sequence 10100, A |
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| 881 | 26 | 51.0 | 392 | 11 | US-11-087-099-10916 | Sequence 10916, A |
| 882 | 26 | 51.0 | 392 | 11 | US-11-087-099-10999 | Sequence 10999, A |
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| 884 | 26 | 51.0 | 392 | 11 | US-11-087-099-11546 | Sequence 11546, A |
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| 891 | 26 | 51.0 | 392 | 11 | US-11-087-099-11938 | Sequence 11938, A |
| 892 | 26 | 51.0 | 392 | 11 | US-11-087-099-12197 | Sequence 12197, A |
| 893 | 26 | 51.0 | 393 | 11 | US-11-087-099-1514 | Sequence 1514, Ap |
| 894 | 26 | 51.0 | 393 | 11 | US-11-087-099-4244 | Sequence 4244, Ap |
| 895 | 26 | 51.0 | 393 | 11 | US-11-087-099-5119 | Sequence 5119, Ap |
| 896 | 26 | 51.0 | 393 | 11 | US-11-087-099-6443 | Sequence 6443, Ap |
| 897 | 26 | 51.0 | 393 | 11 | US-11-087-099-10685 | Sequence 10685, A |
| 898 | 26 | 51.0 | 393 | 11 | US-11-087-099-11279 | Sequence 11279, A |
| 899 | 26 | 51.0 | 394 | 11 | US-11-087-099-2818 | Sequence 2818, Ap |
| 900 | 26 | 51.0 | 394 | 11 | US-11-087-099-5538 | Sequence 5538, Ap |
| 901 | 26 | 51.0 | 394 | 11 | US-11-087-099-8649 | Sequence 8649, Ap |
| 902 | 26 | 51.0 | 395 | 11 | US-11-087-099-6521 | Sequence 6521, Ap |
| 903 | 26 | 51.0 | 396 | 11 | US-11-087-099-930 | Sequence 930, App |
| 904 | 26 | 51.0 | 396 | 11 | US-11-087-099-8710 | Sequence 8710, Ap |
| 905 | 26 | 51.0 | 397 | 11 | US-11-087-099-1848 | Sequence 1848, Ap |
| 906 | 26 | 51.0 | 397 | 11 | US-11-087-099-3365 | Sequence 3365, Ap |
| 907 | 26 | 51.0 | 397 | 11 | US-11-087-099-4446 | Sequence 4446, Ap |
| 908 | 26 | 51.0 | 398 | 11 | US-11-087-099-5162 | Sequence 5162, Ap |
| 909 | 26 | 51.0 | 399 | 8 | US-10-322-836-36 | Sequence 36, Appl |
| 910 | 26 | 51.0 | 401 | 11 | US-11-087-099-6402 | Sequence 6402, Ap |
| 911 | 26 | 51.0 | 406 | 9 | US-10-493-909-68 | Sequence 68, Appl |
| 912 | 26 | 51.0 | 406 | 11 | US-11-107-028-7 | Sequence 7, Appli |
| 913 | 26 | 51.0 | 406 | 11 | US-11-264-627-2 | Sequence 2, Appli |
| 914 | 26 | 51.0 | 407 | 11 | US-11-072-512-3074 | Sequence 3074, Ap |
| 915 | 26 | 51.0 | 407 | 11 | US-11-087-099-2794 | Sequence 2794, Ap |
| 916 | 26 | 51.0 | 407 | 11 | US-11-087-099-5516 | Sequence 5516, Ap |
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| 918 | 26 | 51.0 | 411 | 11 | US-11-188-298-6314 | Sequence 6314, Ap |
| 919 | 26 | 51.0 | 412 | 11 | US-11-087-099-4042 | Sequence 4042, Ap |
| 920 | 26 | 51.0 | 414 | 11 | US-11-087-099-3133 | Sequence 3133, Ap |
| 921 | 26 | 51.0 | 414 | 11 | US-11-087-099-3464 | Sequence 3464, Ap |
| 922 | 26 | 51.0 | 414 | 11 | US-11-087-099-9955 | Sequence 9955, Ap |
| 923 | 26 | 51.0 | 415 | 11 | US-11-087-099-1187 | Sequence 1187, Ap |
| 924 | 26 | 51.0 | 415 | 11 | US-11-087-099-7779 | Sequence 7779, Ap |
| 925 | 26 | 51.0 | 417 | 11 | US-11-096-568A-8397 | Sequence 8397, Ap |
| 926 | 26 | 51.0 | 417 | 11 | US-11-079-463-8014 | Sequence 8014, Ap |
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| 933 | 26 | 51.0 | 430 | 9 | US-10-506-454-280 | Sequence 280, App |
| 934 | 26 | 51.0 | 430 | 11 | US-11-188-298-13665 | Sequence 13665, A |
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| 936 | 26 | 51.0 | 435 | 11 | US-11-087-099-1868 | Sequence 1868, Ap |
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| 944 | 26 | 51.0 | 451 | 11 | US-11-096-568A-27949 | Sequence 27949, A |
| 945 | 26 | 51.0 | 455 | 9 | US-10-784-004-373 | Sequence 373, App |
| 946 | 26 | 51.0 | 455 | 11 | US-11-156-084-128 | Sequence 128, App |
| 947 | 26 | 51.0 | 455 | 11 | US-11-228-659-61 | Sequence 61, Appl |
| 948 | 26 | 51.0 | 458 | 11 | US-11-096-568A-7980 | Sequence 7980, Ap |
| 949 | 26 | 51.0 | 461 | 11 | US-11-087-099-5294 | Sequence 5294, Ap |
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| 952 | 26 | 51.0 | 464 | 11 | US-11-087-099-2021 | Sequence 2021, Ap |
| 953 | 26 | 51.0 | 464 | 11 | US-11-087-099-3098 | Sequence 3098, Ap |
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| 955 | 26 | 51.0 | 465 | 11 | US-11-087-099-2276 | Sequence 2276, Ap |
| 956 | 26 | 51.0 | 465 | 11 | US-11-087-099-2959 | Sequence 2959, Ap |
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| 958 | 26 | 51.0 | 465 | 11 | US-11-087-099-6887 | Sequence 6887, Ap |
| 959 | 26 | 51.0 | 465 | 11 | US-11-087-099-7406 | Sequence 7406, Ap |
| 960 | 26 | 51.0 | 465 | 11 | US-11-087-099-8842 | Sequence 8842, Ap |
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| 962 | 26 | 51.0 | 466 | 11 | US-11-087-099-6619 | Sequence 6619, Ap |
| 963 | 26 | 51.0 | 466 | 11 | US-11-087-099-8677 | Sequence 8677, Ap |
| 964 | 26 | 51.0 | 466 | 11 | US-11-087-099-8812 | Sequence 8812, Ap |
| 965 | 26 | 51.0 | 467 | 11 | US-11-087-099-9940 | Sequence 9940, Ap |
| 966 | 26 | 51.0 | 467 | 11 | US-11-087-099-12034 | Sequence 12034, A |
| 967 | 26 | 51.0 | 468 | 9 | US-10-763-712A-20 | Sequence 20, Appl |
| 968 | 26 | 51.0 | 468 | 9 | US-10-763-712A-100 | Sequence 100, App |
| 969 | 26 | 51.0 | 468 | 9 | US-10-511-989-164 | Sequence 164, App |
| 970 | 26 | 51.0 | 468 | 11 | US-11-000-463-237 | Sequence 237, App |

| | | | | | | |
|---|---|---|---|---|---|---|
| 971 | 26 | 51.0 | 471 | 11 | US-11-087-099-2187 | Sequence 2187, Ap |
| 972 | 26 | 51.0 | 472 | 11 | US-11-114-301-2 | Sequence 2, Appli |
| 973 | 26 | 51.0 | 472 | 11 | US-11-264-096-2199 | Sequence 2199, Ap |
| 974 | 26 | 51.0 | 474 | 11 | US-11-188-298-14614 | Sequence 14614, A |
| 975 | 26 | 51.0 | 477 | 11 | US-11-079-463-9020 | Sequence 9020, Ap |
| 976 | 26 | 51.0 | 478 | 11 | US-11-079-463-5794 | Sequence 5794, Ap |
| 977 | 26 | 51.0 | 478 | 11 | US-11-045-004-2663 | Sequence 2663, Ap |
| 978 | 26 | 51.0 | 480 | 11 | US-11-096-568A-1228 | Sequence 1228, Ap |
| 979 | 26 | 51.0 | 482 | 11 | US-11-186-448-2 | Sequence 2, Appli |
| 980 | 26 | 51.0 | 482 | 11 | US-11-143-984A-112 | Sequence 112, App |
| 981 | 26 | 51.0 | 482 | 11 | US-11-072-175-164 | Sequence 164, App |
| 982 | 26 | 51.0 | 482 | 11 | US-11-096-568A-7979 | Sequence 7979, Ap |
| 983 | 26 | 51.0 | 484 | 8 | US-10-322-836-40 | Sequence 40, Appl |
| 984 | 26 | 51.0 | 492 | 11 | US-11-188-298-9200 | Sequence 9200, Ap |
| 985 | 26 | 51.0 | 492 | 11 | US-11-188-298-21061 | Sequence 21061, A |
| 986 | 26 | 51.0 | 494 | 11 | US-11-188-298-9864 | Sequence 9864, Ap |
| 987 | 26 | 51.0 | 495 | 11 | US-11-096-568A-7978 | Sequence 7978, Ap |
| 988 | 26 | 51.0 | 495 | 11 | US-11-188-298-3962 | Sequence 3962, Ap |
| 989 | 26 | 51.0 | 496 | 9 | US-10-793-626-1030 | Sequence 1030, Ap |
| 990 | 26 | 51.0 | 496 | 11 | US-11-188-298-1355 | Sequence 1355, Ap |
| 991 | 26 | 51.0 | 496 | 11 | US-11-188-298-4384 | Sequence 4384, Ap |
| 992 | 26 | 51.0 | 496 | 11 | US-11-188-298-4671 | Sequence 4671, Ap |
| 993 | 26 | 51.0 | 496 | 11 | US-11-188-298-5501 | Sequence 5501, Ap |
| 994 | 26 | 51.0 | 496 | 11 | US-11-188-298-7126 | Sequence 7126, Ap |
| 995 | 26 | 51.0 | 496 | 11 | US-11-188-298-8942 | Sequence 8942, Ap |
| 996 | 26 | 51.0 | 496 | 11 | US-11-188-298-9323 | Sequence 9323, Ap |
| 997 | 26 | 51.0 | 496 | 11 | US-11-188-298-10589 | Sequence 10589, A |
| 998 | 26 | 51.0 | 496 | 11 | US-11-188-298-14450 | Sequence 14450, A |
| 999 | 26 | 51.0 | 496 | 11 | US-11-188-298-16067 | Sequence 16067, A |
| 1000 | 26 | 51.0 | 496 | 11 | US-11-188-298-16226 | Sequence 16226, A |

ALIGNMENTS

```
RESULT 1
US-11-041-893-101
; Sequence 101, Application US/11041893
; Publication No. US20060002941A1
; GENERAL INFORMATION:
;  APPLICANT: Mahairas, Gregory G.
;  TITLE OF INVENTION: COMPOSITIONS COMPRISING IMMUNE RESPONSE
;  TITLE OF INVENTION:  ALTERING AGENTS AND METHODS OF USE
;  FILE REFERENCE: 100123.401
;  CURRENT APPLICATION NUMBER: US/11/041,893
;  CURRENT FILING DATE:  2005-01-24
;  PRIOR APPLICATION NUMBER: US 60/616,855
;  PRIOR FILING DATE: 2004-10-06
;  PRIOR APPLICATION NUMBER: US 60/538,713
;  PRIOR FILING DATE: 2004-01-23
;  NUMBER OF SEQ ID NOS: 295
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 101
;   LENGTH: 35
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus E7
US-11-041-893-101

  Query Match             100.0%;  Score 51;  DB 11;  Length 35;
  Best Local Similarity   100.0%;  Pred. No. 0.0045;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         18 KCDSTLRLC 26


RESULT 2
US-10-511-814-8
; Sequence 8, Application US/10511814
; Publication No. US20060088472A1
; GENERAL INFORMATION:
;  APPLICANT: McCance, Dennis
;  APPLICANT:  Westbrook, III, Thomas F.
;  TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
;  FILE REFERENCE: 21108.0016U2
;  CURRENT APPLICATION NUMBER: US/10/511,814
;  CURRENT FILING DATE:  2004-10-19
;  PRIOR APPLICATION NUMBER: PCT/US03/12667
;  PRIOR FILING DATE: 2003-04-21
;  PRIOR APPLICATION NUMBER: 60/374,245
;  PRIOR FILING DATE: 2002-04-19
;  NUMBER OF SEQ ID NOS: 21
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:/Note =
;   OTHER INFORMATION: Synthetic Construct
US-10-511-814-8

  Query Match             100.0%;  Score 51;  DB 8;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.011;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 3
US-10-511-814-11
; Sequence 11, Application US/10511814
; Publication No. US20060088472A1
; GENERAL INFORMATION:
;  APPLICANT: McCance, Dennis
;  APPLICANT:  Westbrook, III, Thomas F.
;  TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
;  FILE REFERENCE: 21108.0016U2
;  CURRENT APPLICATION NUMBER: US/10/511,814
;  CURRENT FILING DATE:  2004-10-19
;  PRIOR APPLICATION NUMBER: PCT/US03/12667
;  PRIOR FILING DATE: 2003-04-21
;  PRIOR APPLICATION NUMBER: 60/374,245
;  PRIOR FILING DATE: 2002-04-19
;  NUMBER OF SEQ ID NOS: 21
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:/Note =
;   OTHER INFORMATION: Synthetic Construct
US-10-511-814-11

  Query Match             100.0%;  Score 51;  DB 8;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.011;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 4
US-10-530-253-14
; Sequence 14, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
```

```
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 14
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-14

  Query Match             100.0%;  Score 51;  DB 9;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.011;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 5
US-11-179-478-4
; Sequence 4, Application US/11179478
; Publication No. US20050249745A1
;  GENERAL INFORMATION:
;    APPLICANT:  BURGER, Alexander
;    APPLICANT:  HALLEK, Michael
;    TITLE OF INVENTION:  PAPILLOMA VIRUS CAPSOMERE VACCINE
;    TITLE OF INVENTION:  FORMULATIONS AND METHODS OF USE
;    NUMBER OF SEQUENCES:  28
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  FOLEY & LARDNER
;      STREET:  3000 K Street, N.W.
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20007-5109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/11/179,478
;      FILING DATE:  13-JULY-2005
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/10/654,129
;      FILING DATE:  04-Sep-2003
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Sandercock, Colin G.
;      REGISTRATION NUMBER:  31,298
;      REFERENCE/DOCKET NUMBER:  37067/102
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 672-5300
;      TELEFAX:  (202) 672-5399
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  98 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-11-179-478-4

  Query Match             100.0%;  Score 51;  DB 11;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.011;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 6
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-1

  Query Match             100.0%;  Score 51;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.025;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db        210 KCDSTLRLC 218


RESULT 7
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-3

  Query Match             100.0%;  Score 51;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.025;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db        210 KCDSTLRLC 218
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RESULT 8
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-5

  Query Match             100.0%;  Score 51;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.025;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db        210 KCDSTLRLC 218


RESULT 9
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-7

  Query Match             100.0%;  Score 51;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.025;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 10
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-9

  Query Match             100.0%;  Score 51;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.025;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 11
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-11

  Query Match             100.0%;  Score 51;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.025;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 12
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
;  APPLICANT: PANG, XIAOWU
;  TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
;  TITLE OF INVENTION:  RECOMBINANT REPLICON
;  FILE REFERENCE: 116620-003
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;  CURRENT APPLICATION NUMBER: US/11/192,923A
;  CURRENT FILING DATE:  2005-07-29
;  PRIOR APPLICATION NUMBER: CN 03115272.4
;  PRIOR FILING DATE: 2003-01-30
;  PRIOR APPLICATION NUMBER: CN 03115273.2
;  PRIOR FILING DATE: 2003-01-30
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
;   LENGTH: 256
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-11-192-923A-2

  Query Match             100.0%;  Score 51;  DB 11;  Length 256;
  Best Local Similarity   100.0%;  Pred. No. 0.026;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||||||||
Db         60 KCDSTLRLC 68


RESULT 13
US-10-530-253-34
; Sequence 34, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 34
;   LENGTH: 99
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 52
US-10-530-253-34

  Query Match             90.2%;  Score 46;  DB 9;  Length 99;
  Best Local Similarity   100.0%;  Pred. No. 0.095;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CDSTLRLC 9
              ||||||||
Db         63 CDSTLRLC 70


RESULT 14
US-10-530-253-30
; Sequence 30, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 30
;   LENGTH: 99
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 35
US-10-530-253-30

  Query Match             86.3%;  Score 44;  DB 9;  Length 99;
  Best Local Similarity   77.8%;  Pred. No. 0.22;
  Matches    7;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              ||::|||||
Db         61 KCEATLRLC 69


RESULT 15
US-10-530-253-28
; Sequence 28, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 28
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 31
US-10-530-253-28

  Query Match             78.4%;  Score 40;  DB 9;  Length 98;
  Best Local Similarity   77.8%;  Pred. No. 1.2;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              :| ||||||
Db         60 QCKSTLRLC 68


RESULT 16
US-10-530-061-656
; Sequence 656, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 656
```

```
;   LENGTH: 11
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-656

  Query Match             74.5%;  Score 38;  DB 9;  Length 11;
  Best Local Similarity   100.0%;  Pred. No. 0.42;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLR 7
              |||||||
Db          5 KCDSTLR 11


RESULT 17
US-11-188-298-5260
; Sequence 5260, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 5260
;   LENGTH: 137
;   TYPE: PRT
;   ORGANISM: Triticum aestivum
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(137)
;   OTHER INFORMATION: unsure at all Xaa locations
US-11-188-298-5260

  Query Match             70.6%;  Score 36;  DB 11;  Length 137;
  Best Local Similarity   75.0%;  Pred. No. 9;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CDSTLRLC 9
              ||| :|||
Db         46 CDSYVRLC 53


RESULT 18
US-11-079-463-6401
; Sequence 6401, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PATH00-03DIV2
;  CURRENT APPLICATION NUMBER: US/11/079,463
;  CURRENT FILING DATE:  2005-03-14
;  PRIOR APPLICATION NUMBER: US 60/128,705
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/540,209
;  PRIOR FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 6401
;   LENGTH: 157
;   TYPE: PRT
;   ORGANISM: B.fragilis
US-11-079-463-6401

  Query Match             70.6%;  Score 36;  DB 11;  Length 157;
  Best Local Similarity   75.0%;  Pred. No. 10;
  Matches    6;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRL 8
              :||||:||
Db        147 QCDSTMRL 154


RESULT 19
US-10-530-253-29
; Sequence 29, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 29
;   LENGTH: 97
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 33
US-10-530-253-29

  Query Match             68.6%;  Score 35;  DB 9;  Length 97;
  Best Local Similarity   62.5%;  Pred. No. 10;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CDSTLRLC 9
              |::|:|||
Db         61 CNTTVRLC 68


RESULT 20
US-11-072-512-3316
; Sequence 3316, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
;  APPLICANT: ISOGAI, TAKAO
;  APPLICANT:  SUGIYAMA, TOMOYASU
;  APPLICANT:  OTSUKI, TETSUJI
;  APPLICANT:  WAKAMATSU, AI
;  APPLICANT:  SATO, HIROYUKI
;  APPLICANT:  ISHII, SHIZUKO
;  APPLICANT:  YAMAMOTO, JUN-ICHI
;  APPLICANT:  ISONO, YUUKO
;  APPLICANT:  HIO, YURI
;  APPLICANT:  OTSUKA, KAORU
;  APPLICANT:  NAGAI, KEIICHI
;  APPLICANT:  IRIE, RYOTARO
;  APPLICANT:  TAMECHIKA, ICHIRO
;  APPLICANT:  SEKI, NAOHIKO
;  APPLICANT:  YOSHIKAWA, TSUTOMU
;  APPLICANT:  OTSUKA, MOTOYUKI
;  APPLICANT:  NAGAHARI, KENJI
;  APPLICANT:  MASUHO, YASUHIKO
;  TITLE OF INVENTION: Novel full length cDNA
;  FILE REFERENCE: 084335-0191
;  CURRENT APPLICATION NUMBER: US/11/072,512
;  CURRENT FILING DATE:  2005-03-07
;  PRIOR APPLICATION NUMBER: US 60/350,978
;  PRIOR FILING DATE: 2002-01-25
;  PRIOR APPLICATION NUMBER: JP 2001-379298
;  PRIOR FILING DATE: 2001-11-05
;  NUMBER OF SEQ ID NOS: 4096
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3316
;   LENGTH: 146
```

```
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-072-512-3316

  Query Match             66.7%;  Score 34;  DB 11;  Length 146;
  Best Local Similarity   62.5%;  Pred. No. 22;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 CDSTLRLC 9
              |  |||:|
Db         10 CSKTLRMC 17


RESULT 21
US-10-530-061-858
; Sequence 858, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 858
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-858

  Query Match             64.7%;  Score 33;  DB 9;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 3.2;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCDSTL 6
              ||||||
Db          5 KCDSTL 10


RESULT 22
US-10-530-061-1746
; Sequence 1746, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1746
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-1746

  Query Match             64.7%;  Score 33;  DB 9;  Length 15;
  Best Local Similarity   62.5%;  Pred. No. 4.6;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CDSTLRLC 9
              | :|:|||
Db          6 CGTTVRLC 13


RESULT 23
US-10-530-253-36
; Sequence 36, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 36
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 58
US-10-530-253-36

  Query Match             64.7%;  Score 33;  DB 9;  Length 98;
  Best Local Similarity   62.5%;  Pred. No. 24;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CDSTLRLC 9
              | :|:|||
Db         62 CGTTVRLC 69


RESULT 24
US-11-079-463-8936
; Sequence 8936, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PATH00-03DIV2
;  CURRENT APPLICATION NUMBER: US/11/079,463
;  CURRENT FILING DATE:  2005-03-14
;  PRIOR APPLICATION NUMBER: US 60/128,705
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/540,209
;  PRIOR FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 8936
;   LENGTH: 682
;   TYPE: PRT
;   ORGANISM: B.fragilis
US-11-079-463-8936

  Query Match             64.7%;  Score 33;  DB 11;  Length 682;
  Best Local Similarity   62.5%;  Pred. No. 1.3e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRL 8
              |||| :|:
Db        231 KCDSAIRI 238
```

```
RESULT 25
US-10-982-145-92
; Sequence 92, Application US/10982145
; Publication No. US20050272645A1
; GENERAL INFORMATION:
;  APPLICANT: Robert Lehrer
;  APPLICANT:  Alan Waring
;  APPLICANT:  Alexander Cole
;  APPLICANT:  Teresa Hong
;  TITLE OF INVENTION: Retrocyclins: Antiviral and
;  TITLE OF INVENTION:  Antimicrobial Peptides
;  FILE REFERENCE: UCLA-001CIP2
;  CURRENT APPLICATION NUMBER: US/10/982,145
;  CURRENT FILING DATE:  2004-11-05
;  PRIOR APPLICATION NUMBER: US03/14106
;  PRIOR FILING DATE: 2003-05-06
;  PRIOR APPLICATION NUMBER: 10/141,645
;  PRIOR FILING DATE: 2002-05-06
;  PRIOR APPLICATION NUMBER: US02/12353
;  PRIOR FILING DATE: 2002-04-18
;  PRIOR APPLICATION NUMBER: 60/284,855
;  PRIOR FILING DATE: 2001-04-18
;  NUMBER OF SEQ ID NOS: 135
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 92
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: expansion of variant residues.
US-10-982-145-92

  Query Match             62.7%;  Score 32;  DB 9;  Length 9;
  Best Local Similarity   55.6%;  Pred. No. 1.9e+05;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              :|  |||:|
Db          1 RCICTLRIC 9


RESULT 26
US-11-188-298-15795
; Sequence 15795, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 15795
;   LENGTH: 224
;   TYPE: PRT
;   ORGANISM: Glycine max
US-11-188-298-15795

  Query Match             62.7%;  Score 32;  DB 11;  Length 224;
  Best Local Similarity   50.0%;  Pred. No. 77;
  Matches    4;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CDSTLRLC 9
              |:| ::||
Db         97 CESAIKLC 104


RESULT 27
US-11-045-004-1809
; Sequence 1809, Application US/11045004
; Publication No. US20060078901A1
; GENERAL INFORMATION:
;  APPLICANT: BUCHRIESER, CARMEN
;  APPLICANT:  FRANGEUL, LIONEL
;  APPLICANT:  COUVE, ELISABETH
;  APPLICANT:  RUSNIOK, CHRISTOPHE
;  APPLICANT:  FSIHI, HAFIDA
;  APPLICANT:  DEHOUX, PIERRE
;  APPLICANT:  DUSSURGET, OLIVIER
;  APPLICANT:  CHETOUANI, FARID
;  APPLICANT:  NEDJARI, HAFED
;  APPLICANT:  GLASER, PHILIPPE
;  APPLICANT:  KUNST, FRANCK
;  APPLICANT:  COSSART, PASCALE
;  APPLICANT:  DANIELS, JUSTIN
;  APPLICANT:  GOEBEI, WERNER
;  APPLICANT:  KREFT, JURGEN
;  APPLICANT:  KUHN, MICHAEL
;  APPLICANT:  NG, EVA
;  APPLICANT:  VAZQUEZ-BOLAND, ANTONIO
;  APPLICANT:  DOMINGUEZ-BERNAL, GUSTAVO
;  APPLICANT:  GARRIDO-GARCIA, PATRICIA
;  APPLICANT:  TIERREZ-MARTINEZ, ALBERTO
;  APPLICANT:  AMEND, ALEXANDRA
;  APPLICANT:  CHAKRABORTY, TRINAD
;  APPLICANT:  DOMANN, EUGEN
;  APPLICANT:  HAIN, THORSTEN
;  APPLICANT:  BERCHE, PATRICK
;  APPLICANT:  CHARBIT, ALAIN
;  APPLICANT:  DURANT, LIONEL
;  APPLICANT:  PEREZ-DIAZ, JOSE-CLAUDIO
;  APPLICANT:  BAQUERO, FERNANDO
;  APPLICANT:  GARCIA DEL PORTILLO, FRANCISCO
;  APPLICANT:  GOMEZ-LOPEZ, NURIA
;  APPLICANT:  MADUENIO, ENCARNA
;  APPLICANT:  PABLOS, BETRIZ DE
;  APPLICANT:  WEHLAND, JURGEN
;  APPLICANT:  KARST, UWE
;  APPLICANT:  ENTIAN, KARL-DIETER
;  APPLICANT:  HAUF, JORG
;  APPLICANT:  ROSE, MATTHIAS
;  APPLICANT:  VOSS, HAMUT
;  TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
;  FILE REFERENCE: 05394.0018-02
;  CURRENT APPLICATION NUMBER: US/11/045,004
;  CURRENT FILING DATE:  2005-01-28
;  PRIOR APPLICATION NUMBER: 10/637,657
;  PRIOR FILING DATE: 2003-08-11
;  PRIOR APPLICATION NUMBER: 10/257,023
;  PRIOR FILING DATE: 2002-10-08
;  PRIOR APPLICATION NUMBER: PCT/FR01/01118
;  PRIOR FILING DATE: 2001-04-11
;  PRIOR APPLICATION NUMBER: FR 00/04,629
;  PRIOR FILING DATE: 2000-04-11
;  NUMBER OF SEQ ID NOS: 2854
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1809
;   LENGTH: 336
;   TYPE: PRT
;   ORGANISM: Listeria monocytogenes
US-11-045-004-1809

  Query Match             62.7%;  Score 32;  DB 11;  Length 336;
  Best Local Similarity   62.5%;  Pred. No. 1.1e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 CDSTLRLC 9
              || || :|
Db        180 CDFTLSIC 187


RESULT 28
```

```
US-11-188-298-6236
; Sequence 6236, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 6236
;   LENGTH: 498
;   TYPE: PRT
;   ORGANISM: Glycine max
US-11-188-298-6236

  Query Match             62.7%;  Score 32;  DB 11;  Length 498;
  Best Local Similarity   50.0%;  Pred. No. 1.6e+02;
  Matches    4;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CDSTLRLC 9
              |:|  ::||
Db        288 CESAIKLC 295


RESULT 29
US-11-188-298-2270
; Sequence 2270, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 2270
;   LENGTH: 214
;   TYPE: PRT
;   ORGANISM: Aquilegia alpina
US-11-188-298-2270

  Query Match             61.8%;  Score 31.5;  DB 11;  Length 214;
  Best Local Similarity   77.8%;  Pred. No. 92;
  Matches    7;  Conservative    1;  Mismatches    0;  Indels    1;  Gaps    1;

Qy          2 CDST-LRLC 9
              |||| |:||
Db        206 CDSTALQLC 214


RESULT 30
US-10-982-145-102
; Sequence 102, Application US/10982145
; Publication No. US20050272645A1
; GENERAL INFORMATION:
;  APPLICANT: Robert Lehrer
;  APPLICANT:  Alan Waring
;  APPLICANT:  Alexander Cole
;  APPLICANT:  Teresa Hong
;  TITLE OF INVENTION: Retrocyclins: Antiviral and
;  TITLE OF INVENTION:  Antimicrobial Peptides
;  FILE REFERENCE: UCLA-001CIP2
;  CURRENT APPLICATION NUMBER: US/10/982,145
;  CURRENT FILING DATE:  2004-11-05
;  PRIOR APPLICATION NUMBER: US03/14106
;  PRIOR FILING DATE: 2003-05-06
;  PRIOR APPLICATION NUMBER: 10/141,645
;  PRIOR FILING DATE: 2002-05-06
;  PRIOR APPLICATION NUMBER: US02/12353
;  PRIOR FILING DATE: 2002-04-18
;  PRIOR APPLICATION NUMBER: 60/284,855
;  PRIOR FILING DATE: 2001-04-18
;  NUMBER OF SEQ ID NOS: 135
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 102
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: expansion of variant residues.
US-10-982-145-102

  Query Match             60.8%;  Score 31;  DB 9;  Length 9;
  Best Local Similarity   55.6%;  Pred. No. 1.9e+05;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              :|  |||:|
Db          1 RCLCTLRIC 9


RESULT 31
US-10-982-145-110
; Sequence 110, Application US/10982145
; Publication No. US20050272645A1
; GENERAL INFORMATION:
;  APPLICANT: Robert Lehrer
;  APPLICANT:  Alan Waring
;  APPLICANT:  Alexander Cole
;  APPLICANT:  Teresa Hong
;  TITLE OF INVENTION: Retrocyclins: Antiviral and
;  TITLE OF INVENTION:  Antimicrobial Peptides
;  FILE REFERENCE: UCLA-001CIP2
;  CURRENT APPLICATION NUMBER: US/10/982,145
;  CURRENT FILING DATE:  2004-11-05
;  PRIOR APPLICATION NUMBER: US03/14106
;  PRIOR FILING DATE: 2003-05-06
;  PRIOR APPLICATION NUMBER: 10/141,645
;  PRIOR FILING DATE: 2002-05-06
;  PRIOR APPLICATION NUMBER: US02/12353
;  PRIOR FILING DATE: 2002-04-18
;  PRIOR APPLICATION NUMBER: 60/284,855
;  PRIOR FILING DATE: 2001-04-18
;  NUMBER OF SEQ ID NOS: 135
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 110
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: expansion of variant residues.
US-10-982-145-110

  Query Match             60.8%;  Score 31;  DB 9;  Length 9;
  Best Local Similarity   55.6%;  Pred. No. 1.9e+05;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              :|  |||:|
Db          1 RCICTLRVC 9


RESULT 32
US-10-982-145-117
; Sequence 117, Application US/10982145
; Publication No. US20050272645A1
; GENERAL INFORMATION:
;  APPLICANT: Robert Lehrer
;  APPLICANT:  Alan Waring
;  APPLICANT:  Alexander Cole
;  APPLICANT:  Teresa Hong
```

```
;  TITLE OF INVENTION: Retrocyclins: Antiviral and
;  TITLE OF INVENTION:  Antimicrobial Peptides
;  FILE REFERENCE: UCLA-001CIP2
;  CURRENT APPLICATION NUMBER: US/10/982,145
;  CURRENT FILING DATE:  2004-11-05
;  PRIOR APPLICATION NUMBER: US03/14106
;  PRIOR FILING DATE: 2003-05-06
;  PRIOR APPLICATION NUMBER: 10/141,645
;  PRIOR FILING DATE: 2002-05-06
;  PRIOR APPLICATION NUMBER: US02/12353
;  PRIOR FILING DATE: 2002-04-18
;  PRIOR APPLICATION NUMBER: 60/284,855
;  PRIOR FILING DATE: 2001-04-18
;  NUMBER OF SEQ ID NOS: 135
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 117
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: expansion of variant residues.
US-10-982-145-117

  Query Match             60.8%;  Score 31;  DB 9;  Length 9;
  Best Local Similarity   55.6%;  Pred. No. 1.9e+05;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              :|  |||:|
Db          1 RCLCTLRIC 9


RESULT 33
US-11-123-896-207
; Sequence 207, Application US/11123896
; Publication No. US20050273881A1
; GENERAL INFORMATION:
;  APPLICANT: Simmons, Carl R.
;  APPLICANT:  Navarro Acevedo, Pedro A.
;  APPLICANT:  Harvell, Leslie
;  APPLICANT:  Cahoon, Rebecca
;  APPLICANT:  McCutchen, Billy Fred
;  APPLICANT:  Lu, Albert
;  APPLICANT:  Herrmann, Rafael
;  APPLICANT:  Wong, James
;  TITLE OF INVENTION: Defensin Polynucleotides and Methods of
;  TITLE OF INVENTION:  Use
;  FILE REFERENCE: 35718/246703
;  CURRENT APPLICATION NUMBER: US/11/123,896
;  CURRENT FILING DATE:  2005-05-06
;  PRIOR APPLICATION NUMBER: 60/300,152
;  PRIOR FILING DATE: 2001-06-22
;  PRIOR APPLICATION NUMBER: 60/300,241
;  PRIOR FILING DATE: 2001-06-22
;  NUMBER OF SEQ ID NOS: 469
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 207
;   LENGTH: 45
;   TYPE: PRT
;   ORGANISM: Taraxacum kok-saghyz
US-11-123-896-207

  Query Match             60.8%;  Score 31;  DB 11;  Length 45;
  Best Local Similarity   55.6%;  Pred. No. 29;
  Matches    5;  Conservative    0;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||   | |
Db         31 KCDGVRRCC 39


RESULT 34
US-11-123-896-206
; Sequence 206, Application US/11123896
; Publication No. US20050273881A1
; GENERAL INFORMATION:
;  APPLICANT: Simmons, Carl R.
;  APPLICANT:  Navarro Acevedo, Pedro A.
;  APPLICANT:  Harvell, Leslie
;  APPLICANT:  Cahoon, Rebecca
;  APPLICANT:  McCutchen, Billy Fred
;  APPLICANT:  Lu, Albert
;  APPLICANT:  Herrmann, Rafael
;  APPLICANT:  Wong, James
;  TITLE OF INVENTION: Defensin Polynucleotides and Methods of
;  TITLE OF INVENTION:  Use
;  FILE REFERENCE: 35718/246703
;  CURRENT APPLICATION NUMBER: US/11/123,896
;  CURRENT FILING DATE:  2005-05-06
;  PRIOR APPLICATION NUMBER: 60/300,152
;  PRIOR FILING DATE: 2001-06-22
;  PRIOR APPLICATION NUMBER: 60/300,241
;  PRIOR FILING DATE: 2001-06-22
;  NUMBER OF SEQ ID NOS: 469
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 206
;   LENGTH: 72
;   TYPE: PRT
;   ORGANISM: Taraxacum kok-saghyz
US-11-123-896-206

  Query Match             60.8%;  Score 31;  DB 11;  Length 72;
  Best Local Similarity   55.6%;  Pred. No. 43;
  Matches    5;  Conservative    0;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRLC 9
              |||   | |
Db         58 KCDGVRRCC 66


RESULT 35
US-11-172-740-2156
; Sequence 2156, Application US/11172740
; Publication No. US20060057724A1
; GENERAL INFORMATION:
;  APPLICANT: MASCIA, Peter
;  APPLICANT:  ALEXANDROV, Nickolai
;  APPLICANT:  BROVER, Vyacheslav
;  TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND POLYPEPTIDES ENCODED THEREBY USEFUL FOR
;  TITLE OF INVENTION:  PLANT CHARACTERISTICS AND PHENOTYPES
;  FILE REFERENCE: 2750-1602PUS2
;  CURRENT APPLICATION NUMBER: US/11/172,740
;  CURRENT FILING DATE:  2005-06-30
;  PRIOR APPLICATION NUMBER: 60/583,621
;  PRIOR FILING DATE: 2004-06-30
;  PRIOR APPLICATION NUMBER: 60/584,829
;  PRIOR FILING DATE: 2004-06-30
;  PRIOR APPLICATION NUMBER: 60/584,800
;  PRIOR FILING DATE: 2004-06-30
;  NUMBER OF SEQ ID NOS: 2523
; SEQ ID NO 2156
;   LENGTH: 127
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(127)
;   OTHER INFORMATION: Public GI no. 46396244
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION:
;   OTHER INFORMATION: Utility: Useful for making plants sterile and for genetic confine
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION:
;   OTHER INFORMATION: Utility: Useful for making smaller plants
```

```
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION:
;   OTHER INFORMATION: Utility: Useful for making stronger plants
US-11-172-740-2156

  Query Match             60.8%;  Score 31;  DB 11;  Length 127;
  Best Local Similarity   62.5%;  Pred. No. 72;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 CDSTLRLC 9
              || :| ||
Db         29 CDESLGLC 36


RESULT 36
US-11-188-298-9105
; Sequence 9105, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 9105
;   LENGTH: 258
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(258)
;   OTHER INFORMATION: unsure at all Xaa locations
US-11-188-298-9105

  Query Match             60.8%;  Score 31;  DB 11;  Length 258;
  Best Local Similarity   85.7%;  Pred. No. 1.3e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CDSTLRL 8
              ||||| |
Db        153 CDSTLAL 159


RESULT 37
US-11-188-298-6447
; Sequence 6447, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 6447
;   LENGTH: 281
;   TYPE: PRT
;   ORGANISM: Eremothecium gossypii
US-11-188-298-6447

  Query Match             60.8%;  Score 31;  DB 11;  Length 281;
  Best Local Similarity   100.0%;  Pred. No. 1.4e+02;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 STLRLC 9
              ||||||
Db         82 STLRLC 87


RESULT 38
US-11-018-018-7
; Sequence 7, Application US/11018018
; Publication No. US20050250794A1
; GENERAL INFORMATION:
;  APPLICANT: Napper, Andrew
;  APPLICANT:  DiStefano, Peter
;  APPLICANT:  Curtis, Rory
;  APPLICANT:  Hixon, Jeffrey
;  APPLICANT:  McDonagh, Thomas
;  TITLE OF INVENTION: METHODS OF TREATING A DISORDER
;  FILE REFERENCE: 13407-052001
;  CURRENT APPLICATION NUMBER: US/11/018,018
;  CURRENT FILING DATE:  2004-12-20
;  PRIOR APPLICATION NUMBER: US 60/530,945
;  PRIOR FILING DATE: 2003-12-19
;  NUMBER OF SEQ ID NOS: 7
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
;   LENGTH: 400
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-018-018-7

  Query Match             60.8%;  Score 31;  DB 11;  Length 400;
  Best Local Similarity   62.5%;  Pred. No. 2e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRL 8
              |||  :||
Db        314 KCDDVMRL 321


RESULT 39
US-11-047-757-7
; Sequence 7, Application US/11047757
; Publication No. US20050256181A1
; GENERAL INFORMATION:
;  APPLICANT: Distefano, Peter
;  APPLICANT:  Watson, Alan D.
;  APPLICANT:  Curtis, Rory
;  APPLICANT:  Geesaman, Bard J.
;  APPLICANT:  Cannon, L. Edward
;  APPLICANT:  Navia, Manuel A.
;  TITLE OF INVENTION: Treating a Viral Disorder
;  FILE REFERENCE: 13407-051001
;  CURRENT APPLICATION NUMBER: US/11/047,757
;  CURRENT FILING DATE:  2005-01-31
;  PRIOR APPLICATION NUMBER: US 60/540,429
;  PRIOR FILING DATE: 2004-01-29
;  PRIOR APPLICATION NUMBER: US 60/560,484
;  PRIOR FILING DATE: 2004-04-07
;  NUMBER OF SEQ ID NOS: 9
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 7
;   LENGTH: 400
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-047-757-7

  Query Match             60.8%;  Score 31;  DB 11;  Length 400;
  Best Local Similarity   62.5%;  Pred. No. 2e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRL 8
              |||  :||
Db        314 KCDDVMRL 321


RESULT 40
US-11-166-892-15
```

```
; Sequence 15, Application US/11166892
; Publication No. US20060014705A1
; GENERAL INFORMATION:
;  APPLICANT: Howitz, Konrad T
;  APPLICANT:  Zipkin, Robert E
;  TITLE OF INVENTION: Compositions and Methods for Selectively Activating Human Sirtuin
;  FILE REFERENCE: BIO0002US
;  CURRENT APPLICATION NUMBER: US/11/166,892
;  CURRENT FILING DATE:  2005-06-24
;  PRIOR APPLICATION NUMBER: US 60/584,943
;  PRIOR FILING DATE: 2004-06-30
;  NUMBER OF SEQ ID NOS: 32
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
;   LENGTH: 400
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-11-166-892-15

  Query Match             60.8%;  Score 31;  DB 11;  Length 400;
  Best Local Similarity   62.5%;  Pred. No. 2e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRL 8
              |||  :||
Db        314 KCDDVMRL 321


RESULT 41
US-11-048-490-7
; Sequence 7, Application US/11048490
; Publication No. US20060019952A1
; GENERAL INFORMATION:
;  APPLICANT: DiStefano, Peter
;  APPLICANT:  Watson, Alan D.
;  APPLICANT:  Curtis, Rory
;  APPLICANT:  Geesaman, Bard J.
;  APPLICANT:  Cannon, L. Edward
;  APPLICANT:  Navia, Manuel A.
;  TITLE OF INVENTION: ANTI-VIRAL THERAPEUTICS
;  FILE REFERENCE: 13407-054001
;  CURRENT APPLICATION NUMBER: US/11/048,490
;  CURRENT FILING DATE:  2005-01-31
;  PRIOR APPLICATION NUMBER: US 60/540,444
;  PRIOR FILING DATE: 2004-01-29
;  NUMBER OF SEQ ID NOS: 9
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
;   LENGTH: 400
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-048-490-7

  Query Match             60.8%;  Score 31;  DB 11;  Length 400;
  Best Local Similarity   62.5%;  Pred. No. 2e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRL 8
              |||  :||
Db        314 KCDDVMRL 321


RESULT 42
US-11-074-374-18
; Sequence 18, Application US/11074374
; Publication No. US20060025337A1
; GENERAL INFORMATION:
;  APPLICANT: SINCLAIR, DAVID A.
;  APPLICANT:  TSAI, LI-HUEI A.
;  TITLE OF INVENTION: SIRTUIN RELATED THERAPEUTICS AND DIAGNOSTICS FOR
;  TITLE OF INVENTION:  NEURODEGENERATIVE DISEASES
;  FILE REFERENCE: HMV-089.03
;  CURRENT APPLICATION NUMBER: US/11/074,374
;  CURRENT FILING DATE:  2005-03-07
;  PRIOR APPLICATION NUMBER: 10/884,022
;  PRIOR FILING DATE: 2004-07-01
;  PRIOR APPLICATION NUMBER: 10/884,879
;  PRIOR FILING DATE: 2004-07-01
;  PRIOR APPLICATION NUMBER: 60/532,158
;  PRIOR FILING DATE: 2003-12-23
;  PRIOR APPLICATION NUMBER: 60/483,949
;  PRIOR FILING DATE: 2003-07-01
;  NUMBER OF SEQ ID NOS: 31
;  SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 18
;   LENGTH: 400
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-074-374-18

  Query Match             60.8%;  Score 31;  DB 11;  Length 400;
  Best Local Similarity   62.5%;  Pred. No. 2e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRL 8
              |||  :||
Db        314 KCDDVMRL 321


RESULT 43
US-11-077-664-7
; Sequence 7, Application US/11077664
; Publication No. US20060074124A1
; GENERAL INFORMATION:
;  APPLICANT: Napper, Andrew
;  APPLICANT:  DiStefano, Peter
;  APPLICANT:  Curtis, Rory A.
;  APPLICANT:  Hixon, Jeffrey
;  APPLICANT:  McDonagh, Thomas
;  APPLICANT:  Huber, L. Julie
;  APPLICANT:  Solomon, Jonathan M.
;  APPLICANT:  Thomas, Russell J.
;  APPLICANT:  Pons, Jean-Francois
;  TITLE OF INVENTION: METHODS OF TREATING A DISORDER
;  FILE REFERENCE: 13407-092001
;  CURRENT APPLICATION NUMBER: US/11/077,664
;  CURRENT FILING DATE:  2005-03-11
;  PRIOR APPLICATION NUMBER: US 10/940,269
;  PRIOR FILING DATE: 2004-09-13
;  PRIOR APPLICATION NUMBER: US 60/502,811
;  PRIOR FILING DATE: 2003-09-12
;  PRIOR APPLICATION NUMBER: US 60/531,443
;  PRIOR FILING DATE: 2003-12-19
;  PRIOR APPLICATION NUMBER: US 60/560,509
;  PRIOR FILING DATE: 2003-04-07
;  NUMBER OF SEQ ID NOS: 7
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
;   LENGTH: 400
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-077-664-7

  Query Match             60.8%;  Score 31;  DB 11;  Length 400;
  Best Local Similarity   62.5%;  Pred. No. 2e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRL 8
              |||  :||
Db        314 KCDDVMRL 321


RESULT 44
US-11-154-293-28
; Sequence 28, Application US/11154293
; Publication No. US20060084085A1
```

```
; GENERAL INFORMATION:
;  APPLICANT: PRESIDENT AND FELLOWS OF HARVARD COLLEGE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR MODULATING BAX-MEDIATED
;  TITLE OF INVENTION:  APOPTOSIS
;  FILE REFERENCE: HMV-095.01
;  CURRENT APPLICATION NUMBER: US/11/154,293
;  CURRENT FILING DATE:  2005-06-16
;  PRIOR APPLICATION NUMBER: 60/580,169
;  PRIOR FILING DATE: 2004-06-16
;  NUMBER OF SEQ ID NOS: 58
;  SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 28
;   LENGTH: 400
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-154-293-28

  Query Match             60.8%;  Score 31;  DB 11;  Length 400;
  Best Local Similarity   62.5%;  Pred. No. 2e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 KCDSTLRL 8
              |||  :||
Db        314 KCDDVMRL 321


RESULT 45
US-11-264-096-1730
; Sequence 1730, Application US/11264096
; Publication No. US20060084794A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Albumin Fusion Proteins
;  FILE REFERENCE: PF546D1
;  CURRENT APPLICATION NUMBER: US/11/264,096
;  CURRENT FILING DATE:  2005-11-02
;  PRIOR APPLICATION NUMBER: 09/833,245
;  PRIOR FILING DATE: 2001-04-12
;  PRIOR APPLICATION NUMBER: 60/229, 358
;  PRIOR FILING DATE: 2000-04-12
;  PRIOR APPLICATION NUMBER: 60/256, 931
;  PRIOR FILING DATE: 2000-12-21
;  PRIOR APPLICATION NUMBER: 60/199, 384
;  PRIOR FILING DATE: 2000-04-25
;  NUMBER OF SEQ ID NOS: 2267
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1730
;   LENGTH: 485
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-264-096-1730

  Query Match             60.8%;  Score 31;  DB 11;  Length 485;
  Best Local Similarity   85.7%;  Pred. No. 2.3e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CDSTLRL 8
              ||| |||
Db        136 CDSQLRL 142


RESULT 46
US-11-264-096-1731
; Sequence 1731, Application US/11264096
; Publication No. US20060084794A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Albumin Fusion Proteins
;  FILE REFERENCE: PF546D1
;  CURRENT APPLICATION NUMBER: US/11/264,096
;  CURRENT FILING DATE:  2005-11-02
;  PRIOR APPLICATION NUMBER: 09/833,245
;  PRIOR FILING DATE: 2001-04-12
;  PRIOR APPLICATION NUMBER: 60/229, 358
;  PRIOR FILING DATE: 2000-04-12
;  PRIOR APPLICATION NUMBER: 60/256, 931
;  PRIOR FILING DATE: 2000-12-21
;  PRIOR APPLICATION NUMBER: 60/199, 384
;  PRIOR FILING DATE: 2000-04-25
;  NUMBER OF SEQ ID NOS: 2267
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1731
;   LENGTH: 485
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-264-096-1731

  Query Match             60.8%;  Score 31;  DB 11;  Length 485;
  Best Local Similarity   85.7%;  Pred. No. 2.3e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CDSTLRL 8
              ||| |||
Db        136 CDSQLRL 142


RESULT 47
US-11-264-096-1732
; Sequence 1732, Application US/11264096
; Publication No. US20060084794A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Albumin Fusion Proteins
;  FILE REFERENCE: PF546D1
;  CURRENT APPLICATION NUMBER: US/11/264,096
;  CURRENT FILING DATE:  2005-11-02
;  PRIOR APPLICATION NUMBER: 09/833,245
;  PRIOR FILING DATE: 2001-04-12
;  PRIOR APPLICATION NUMBER: 60/229, 358
;  PRIOR FILING DATE: 2000-04-12
;  PRIOR APPLICATION NUMBER: 60/256, 931
;  PRIOR FILING DATE: 2000-12-21
;  PRIOR APPLICATION NUMBER: 60/199, 384
;  PRIOR FILING DATE: 2000-04-25
;  NUMBER OF SEQ ID NOS: 2267
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1732
;   LENGTH: 485
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-264-096-1732

  Query Match             60.8%;  Score 31;  DB 11;  Length 485;
  Best Local Similarity   85.7%;  Pred. No. 2.3e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CDSTLRL 8
              ||| |||
Db        136 CDSQLRL 142


RESULT 48
US-11-032-236-6
; Sequence 6, Application US/11032236
; Publication No. US20050273867A1
; GENERAL INFORMATION:
;  APPLICANT: BRULET, PHILIPPE
;  APPLICANT:  ROGERS, KELLY
;  APPLICANT:  PICAUD, SANDRINE
;  TITLE OF INVENTION: NON-INVASIVE REAL-TIME IN VIVO BIOLUMINESCENCE IMAGING
;  TITLE OF INVENTION:  OF LOCAL CA2+ DYNAMICS IN LIVING ORGANISMS
;  FILE REFERENCE: 03495.0328
;  CURRENT APPLICATION NUMBER: US/11/032,236
;  CURRENT FILING DATE:  2005-01-11
;  PRIOR APPLICATION NUMBER: 60/543,659
;  PRIOR FILING DATE: 2004-02-12
```

```
;  NUMBER OF SEQ ID NOS: 7
;  SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 6
;   LENGTH: 512
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;   OTHER INFORMATION: coding sequence contained in mtGA vector
US-11-032-236-6

  Query Match             60.8%;  Score 31;  DB 11;  Length 512;
  Best Local Similarity   50.0%;  Pred. No. 2.4e+02;
  Matches    4;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 CDSTLRLC 9
              |: | |:|
Db        468 CEETFRVC 475


RESULT 49
US-11-188-298-11649
; Sequence 11649, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 11649
;   LENGTH: 768
;   TYPE: PRT
;   ORGANISM: Emericella nidulans
US-11-188-298-11649

  Query Match             60.8%;  Score 31;  DB 11;  Length 768;
  Best Local Similarity   71.4%;  Pred. No. 3.5e+02;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 DSTLRLC 9
              :||:|||
Db        469 ESTIRLC 475


RESULT 50
US-11-032-236-4
; Sequence 4, Application US/11032236
; Publication No. US20050273867A1
; GENERAL INFORMATION:
;  APPLICANT: BRULET, PHILIPPE
;  APPLICANT:  ROGERS, KELLY
;  APPLICANT:  PICAUD, SANDRINE
;  TITLE OF INVENTION: NON-INVASIVE REAL-TIME IN VIVO BIOLUMINESCENCE IMAGING
;  TITLE OF INVENTION:  OF LOCAL CA2+ DYNAMICS IN LIVING ORGANISMS
;  FILE REFERENCE: 03495.0328
;  CURRENT APPLICATION NUMBER: US/11/032,236
;  CURRENT FILING DATE:  2005-01-11
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;  NUMBER OF SEQ ID NOS: 7
;  SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 4
;   LENGTH: 1219
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;   OTHER INFORMATION: coding sequence contained in PSDGA vector
US-11-032-236-4

  Query Match             60.8%;  Score 31;  DB 11;  Length 1219;
  Best Local Similarity   50.0%;  Pred. No. 5.3e+02;
  Matches    4;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

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Search completed: May  5, 2006, 08:40:45
Job time : 10.4 secs
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OM protein - protein search, using sw model

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40.884 Million cell updates/sec

Title: US-08-170-344-63
Perfect score: 57
Sequence: 1 TGRCMSCCR 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

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Minimum DB seq length: 0
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SUMMARIES

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| 667 | 32 | 56.1 | 1422 | 2 | US-08-467-344A-86 | Sequence 86, Appl |
| 668 | 32 | 56.1 | 1422 | 2 | US-08-424-550B-86 | Sequence 86, Appl |
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| 670 | 32 | 56.1 | 1826 | 2 | US-09-198-452A-113 | Sequence 113, App |
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| 990 | 31 | 54.4 | 241 | 1 | US-08-824-996-8 | Sequence 8, Appli |
| 991 | 31 | 54.4 | 241 | 2 | US-08-989-251-29 | Sequence 29, Appl |
| 992 | 31 | 54.4 | 241 | 2 | US-09-042-105-6 | Sequence 6, Appli |
| 993 | 31 | 54.4 | 241 | 2 | US-08-867-352-4 | Sequence 4, Appli |
| 994 | 31 | 54.4 | 241 | 2 | US-09-340-250-29 | Sequence 29, Appl |
| 995 | 31 | 54.4 | 241 | 2 | US-08-795-430-54 | Sequence 54, Appl |
| 996 | 31 | 54.4 | 241 | 2 | US-09-528-108-29 | Sequence 29, Appl |
| 997 | 31 | 54.4 | 241 | 2 | US-09-355-700-54 | Sequence 54, Appl |
| 998 | 31 | 54.4 | 241 | 2 | US-08-465-968-4 | Sequence 4, Appli |
| 999 | 31 | 54.4 | 241 | 2 | US-08-671-573B-53 | Sequence 53, Appl |
| 1000 | 31 | 54.4 | 241 | 2 | US-09-921-398-29 | Sequence 29, Appl |

ALIGNMENTS

```
RESULT 1
US-08-934-915-167
; Sequence 167, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  167:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  21 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-167

  Query Match             100.0%;  Score 57;  DB 1;  Length 21;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db          3 TGRCMSCCR 11


RESULT 2
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
;  APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
;  TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 FC
;  TITLE OF INVENTION:  TRANSCRIPTIONAL REGULATION
;  FILE REFERENCE: N73477C GCW
;  CURRENT APPLICATION NUMBER: US/09/701,080C
;  CURRENT FILING DATE:  2001-02-27
;  PRIOR APPLICATION NUMBER: GB 9811303.8
;  PRIOR FILING DATE: 1998-05-26
;  PRIOR APPLICATION NUMBER: GB 9900157.0
;  PRIOR FILING DATE: 1999-01-05
;  NUMBER OF SEQ ID NOS: 36
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-09-701-080C-18

  Query Match             100.0%;  Score 57;  DB 2;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 0.58;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        133 TGRCMSCCR 141


RESULT 3
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-2
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  Query Match             100.0%;  Score 57;  DB 2;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.6;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        140 TGRCMSCCR 148


RESULT 4
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-3

  Query Match             100.0%;  Score 57;  DB 1;  Length 162;
  Best Local Similarity   100.0%;  Pred. No. 0.61;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        140 TGRCMSCCR 148


RESULT 5
US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-4

  Query Match             100.0%;  Score 57;  DB 1;  Length 162;
  Best Local Similarity   100.0%;  Pred. No. 0.61;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        140 TGRCMSCCR 148


RESULT 6
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

  Query Match             100.0%;  Score 57;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.64;
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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db         78 TGRCMSCCR 86


RESULT 7
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-12

  Query Match             100.0%;  Score 57;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.64;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db         78 TGRCMSCCR 86


RESULT 8
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
;  APPLICANT:  KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION:  ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE:  017753-122
;  CURRENT APPLICATION NUMBER: US/09/462,993
;  CURRENT FILING DATE:  2000-04-17
;  PRIOR APPLICATION NUMBER:  PCT/FR98/01576
;  PRIOR FILING DATE:  1998-07-17
;  PRIOR APPLICATION NUMBER:  FR 97/09152
;  PRIOR FILING DATE:  1997-07-18
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

  Query Match             100.0%;  Score 57;  DB 2;  Length 243;
  Best Local Similarity   100.0%;  Pred. No. 0.85;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        163 TGRCMSCCR 171


RESULT 9
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

  Query Match             100.0%;  Score 57;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.92;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        140 TGRCMSCCR 148


RESULT 10
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-10

  Query Match             100.0%;  Score 57;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.92;
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```
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        140 TGRCMSCCR 148


RESULT 11
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 57;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.92;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        140 TGRCMSCCR 148


RESULT 12
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-4

  Query Match             100.0%;  Score 57;  DB 2;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 0.93;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        246 TGRCMSCCR 254


RESULT 13
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-10

  Query Match             100.0%;  Score 57;  DB 2;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.99;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        265 TGRCMSCCR 273


RESULT 14
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-6

  Query Match             100.0%;  Score 57;  DB 2;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 1.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        246 TGRCMSCCR 254


RESULT 15
US-09-485-885-14
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; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-14

  Query Match             100.0%;  Score 57;  DB 2;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 1.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        265 TGRCMSCCR 273


RESULT 16
US-09-913-204-3
; Sequence 3, Application US/09913204
; Patent No. 6953579
; GENERAL INFORMATION:
;  APPLICANT: GISSMAN. Lutz
;  APPLICANT:  MULLER, Martin
;  APPLICANT:  MULLER, Herman
;  TITLE OF INVENTION: CHIMERIC VIRUS-LIKE PARTICLES OR
;  TITLE OF INVENTION:  CHIMERIC CAPSOMERS FROM BPV
;  FILE REFERENCE: 035280134PCUS00
;  CURRENT APPLICATION NUMBER: US/09/913,204
;  CURRENT FILING DATE:  2001-08-10
;  PRIOR APPLICATION NUMBER: PCT/DE00/00426
;  PRIOR FILING DATE: 2000-02-10
;  PRIOR APPLICATION NUMBER: DE 199 05 883.0
;  PRIOR FILING DATE: 1999-02-11
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
;   LENGTH: 137
;   TYPE: PRT
;   ORGANISM: Bovine papilloma virus
US-09-913-204-3

  Query Match             73.7%;  Score 42;  DB 2;  Length 137;
  Best Local Similarity   75.0%;  Pred. No. 53;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 GRCMSCCR 9
              |||  |||
Db        122 GRCYDCCR 129


RESULT 17
US-09-913-204-7
; Sequence 7, Application US/09913204
; Patent No. 6953579
; GENERAL INFORMATION:
;  APPLICANT: GISSMAN. Lutz
;  APPLICANT:  MULLER, Martin
;  APPLICANT:  MULLER, Herman
;  TITLE OF INVENTION: CHIMERIC VIRUS-LIKE PARTICLES OR
;  TITLE OF INVENTION:  CHIMERIC CAPSOMERS FROM BPV
;  FILE REFERENCE: 035280134PCUS00
;  CURRENT APPLICATION NUMBER: US/09/913,204
;  CURRENT FILING DATE:  2001-08-10
;  PRIOR APPLICATION NUMBER: PCT/DE00/00426
;  PRIOR FILING DATE: 2000-02-10
;  PRIOR APPLICATION NUMBER: DE 199 05 883.0
;  PRIOR FILING DATE: 1999-02-11
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
;   LENGTH: 137
;   TYPE: PRT
;   ORGANISM: Bovine papilloma virus
US-09-913-204-7

  Query Match             73.7%;  Score 42;  DB 2;  Length 137;
  Best Local Similarity   75.0%;  Pred. No. 53;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 GRCMSCCR 9
              |||  |||
Db        122 GRCYDCCR 129


RESULT 18
US-09-913-204-13
; Sequence 13, Application US/09913204
; Patent No. 6953579
; GENERAL INFORMATION:
;  APPLICANT: GISSMAN. Lutz
;  APPLICANT:  MULLER, Martin
;  APPLICANT:  MULLER, Herman
;  TITLE OF INVENTION: CHIMERIC VIRUS-LIKE PARTICLES OR
;  TITLE OF INVENTION:  CHIMERIC CAPSOMERS FROM BPV
;  FILE REFERENCE: 035280134PCUS00
;  CURRENT APPLICATION NUMBER: US/09/913,204
;  CURRENT FILING DATE:  2001-08-10
;  PRIOR APPLICATION NUMBER: PCT/DE00/00426
;  PRIOR FILING DATE: 2000-02-10
;  PRIOR APPLICATION NUMBER: DE 199 05 883.0
;  PRIOR FILING DATE: 1999-02-11
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
;   LENGTH: 137
;   TYPE: PRT
;   ORGANISM: Bovine papilloma virus
US-09-913-204-13

  Query Match             73.7%;  Score 42;  DB 2;  Length 137;
  Best Local Similarity   75.0%;  Pred. No. 53;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 GRCMSCCR 9
              |||  |||
Db        122 GRCYDCCR 129


RESULT 19
US-09-913-204-17
; Sequence 17, Application US/09913204
; Patent No. 6953579
; GENERAL INFORMATION:
;  APPLICANT: GISSMAN. Lutz
;  APPLICANT:  MULLER, Martin
;  APPLICANT:  MULLER, Herman
;  TITLE OF INVENTION: CHIMERIC VIRUS-LIKE PARTICLES OR
;  TITLE OF INVENTION:  CHIMERIC CAPSOMERS FROM BPV
;  FILE REFERENCE: 035280134PCUS00
```

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;  CURRENT APPLICATION NUMBER: US/09/913,204
;  CURRENT FILING DATE:  2001-08-10
;  PRIOR APPLICATION NUMBER: PCT/DE00/00426
;  PRIOR FILING DATE: 2000-02-10
;  PRIOR APPLICATION NUMBER: DE 199 05 883.0
;  PRIOR FILING DATE: 1999-02-11
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 17
;   LENGTH: 137
;   TYPE: PRT
;   ORGANISM: Bovine papilloma virus
US-09-913-204-17

  Query Match             73.7%;  Score 42;  DB 2;  Length 137;
  Best Local Similarity   75.0%;  Pred. No. 53;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 GRCMSCCR 9
              |||  |||
Db        122 GRCYDCCR 129


RESULT 20
US-09-949-016-9721
; Sequence 9721, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9721
;   LENGTH: 261
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-9721

  Query Match             73.7%;  Score 42;  DB 2;  Length 261;
  Best Local Similarity   75.0%;  Pred. No. 89;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCC 8
              |||| :||
Db        147 TGRCPACC 154


RESULT 21
US-09-663-600A-118
; Sequence 118, Application US/09663600A
; Patent No. 6573068
; GENERAL INFORMATION:
;  APPLICANT: Dumas Milne Edwards, Jean-Baptiste
;  APPLICANT:  Duclert, Aymeric
;  APPLICANT:  Bougueleret, Lydie
;  TITLE OF INVENTION: EXTENDED CDNAS FOR SECRETED PROTEINS
;  FILE REFERENCE: 31.US3.CIP
;  CURRENT APPLICATION NUMBER: US/09/663,600A
;  CURRENT FILING DATE:  2000-09-15
;  PRIOR APPLICATION NUMBER: 09/191,997
;  PRIOR FILING DATE: 1998-11-13
;  PRIOR APPLICATION NUMBER: 60/066,677
;  PRIOR FILING DATE: 1997-11-13
;  PRIOR APPLICATION NUMBER: 60/069,957
;  PRIOR FILING DATE: 1997-12-17
;  PRIOR APPLICATION NUMBER: 60/074,121
;  PRIOR FILING DATE: 1998-02-09
;  PRIOR APPLICATION NUMBER: 60/081,563
;  PRIOR FILING DATE: 1998-04-13
;  PRIOR APPLICATION NUMBER: 60/096,116
;  PRIOR FILING DATE: 1998-08-10
;  PRIOR APPLICATION NUMBER: 60/099,273
;  PRIOR FILING DATE: 1998-09-04
;  NUMBER OF SEQ ID NOS: 229
;  SOFTWARE: Patent.pm
; SEQ ID NO 118
;   LENGTH: 89
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SIGNAL
;   LOCATION: -16..-1
US-09-663-600A-118

  Query Match             71.9%;  Score 41;  DB 2;  Length 89;
  Best Local Similarity   77.8%;  Pred. No. 50;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              ||| | |||
Db         38 TGRRMQCCR 46


RESULT 22
US-09-663-600A-212
; Sequence 212, Application US/09663600A
; Patent No. 6573068
; GENERAL INFORMATION:
;  APPLICANT: Dumas Milne Edwards, Jean-Baptiste
;  APPLICANT:  Duclert, Aymeric
;  APPLICANT:  Bougueleret, Lydie
;  TITLE OF INVENTION: EXTENDED CDNAS FOR SECRETED PROTEINS
;  FILE REFERENCE: 31.US3.CIP
;  CURRENT APPLICATION NUMBER: US/09/663,600A
;  CURRENT FILING DATE:  2000-09-15
;  PRIOR APPLICATION NUMBER: 09/191,997
;  PRIOR FILING DATE: 1998-11-13
;  PRIOR APPLICATION NUMBER: 60/066,677
;  PRIOR FILING DATE: 1997-11-13
;  PRIOR APPLICATION NUMBER: 60/069,957
;  PRIOR FILING DATE: 1997-12-17
;  PRIOR APPLICATION NUMBER: 60/074,121
;  PRIOR FILING DATE: 1998-02-09
;  PRIOR APPLICATION NUMBER: 60/081,563
;  PRIOR FILING DATE: 1998-04-13
;  PRIOR APPLICATION NUMBER: 60/096,116
;  PRIOR FILING DATE: 1998-08-10
;  PRIOR APPLICATION NUMBER: 60/099,273
;  PRIOR FILING DATE: 1998-09-04
;  NUMBER OF SEQ ID NOS: 229
;  SOFTWARE: Patent.pm
; SEQ ID NO 212
;   LENGTH: 89
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SIGNAL
;   LOCATION: -16..-1
US-09-663-600A-212

  Query Match             71.9%;  Score 41;  DB 2;  Length 89;
  Best Local Similarity   77.8%;  Pred. No. 50;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              ||| | |||
```

```
Db         38 TGRRMQCCR 46


RESULT 23
US-09-826-509-513
; Sequence 513, Application US/09826509
; Patent No. 6806054
; GENERAL INFORMATION:
;  APPLICANT: Lehmann-Bruinsma, Karin
;  APPLICANT:  Liaw, Chen W.
;  APPLICANT:  Lin, I-Lin
;  TITLE OF INVENTION: No. 6806054-Endogenous, Constitutively Activated Known G
;  TITLE OF INVENTION:  Protein-Coupled Receptors
;  FILE REFERENCE: AREN-207
;  CURRENT APPLICATION NUMBER: US/09/826,509
;  CURRENT FILING DATE:  2001-04-05
;  PRIOR APPLICATION NUMBER: 60/195,747
;  PRIOR FILING DATE: 2000-04-07
;  PRIOR APPLICATION NUMBER: 09/170,496
;  PRIOR FILING DATE: 1998-10-13
;  NUMBER OF SEQ ID NOS: 589
;  SOFTWARE: PatentIn Version 2.1
; SEQ ID NO 513
;   LENGTH: 460
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-826-509-513

  Query Match             71.9%;  Score 41;  DB 2;  Length 460;
  Best Local Similarity   75.0%;  Pred. No. 1.9e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 GRCMSCCR 9
              |||  |||
Db        257 GRCCRCCR 264


RESULT 24
US-08-313-553-7
; Sequence 7, Application US/08313553
; Patent No. 5641650
;  GENERAL INFORMATION:
;    APPLICANT:  TURNER, George J.
;    APPLICANT:  BETLACH, Mary C.
;    TITLE OF INVENTION:  EXPRESSION OF HETEROLOGOUS POLYPEPTIDES
;    TITLE OF INVENTION:  IN HALOBACTERIA
;    NUMBER OF SEQUENCES:  15
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Walter H. Dreger
;      STREET:  4 Embarcadero Center, Suite 3400
;      CITY:  San Francisco
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94111
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/313,553
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/038,662
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Dreger, Walter H.
;      REGISTRATION NUMBER:  24,190
;      REFERENCE/DOCKET NUMBER:  A-57669/WHD
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 781-1989
;      TELEFAX:  (415) 398-3249
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  479 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-313-553-7

  Query Match             71.9%;  Score 41;  DB 1;  Length 479;
  Best Local Similarity   75.0%;  Pred. No. 2e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 GRCMSCCR 9
              |||  |||
Db        277 GRCCRCCR 284


RESULT 25
US-08-767-993-7
; Sequence 7, Application US/08767993
; Patent No. 6010885
;  GENERAL INFORMATION:
;    APPLICANT:  TURNER, George J.
;    APPLICANT:  BETLACH, Mary C.
;    TITLE OF INVENTION:  EXPRESSION OF HETEROLOGOUS POLYPEPTIDES
;    TITLE OF INVENTION:  IN HALOBACTERIA
;    NUMBER OF SEQUENCES:  15
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Walter H. Dreger
;      STREET:  4 Embarcadero Center, Suite 3400
;      CITY:  San Francisco
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94111
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/767,993
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Dreger, Walter H.
;      REGISTRATION NUMBER:  24,190
;      REFERENCE/DOCKET NUMBER:  A-57669/WHD
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 781-1989
;      TELEFAX:  (415) 398-3249
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  479 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-767-993-7

  Query Match             71.9%;  Score 41;  DB 2;  Length 479;
  Best Local Similarity   75.0%;  Pred. No. 2e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 GRCMSCCR 9
              |||  |||
Db        277 GRCCRCCR 284


RESULT 26
US-09-270-767-35372
; Sequence 35372, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
```

```
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 35372
;    LENGTH: 73
;    TYPE: PRT
;    ORGANISM: Drosophila melanogaster
US-09-270-767-35372

  Query Match             70.2%;  Score 40;  DB 2;  Length 73;
  Best Local Similarity   66.7%;  Pred. No. 58;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              | || |||:
Db         19 TKRCASCCK 27


RESULT 27
US-09-270-767-50589
; Sequence 50589, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 50589
;    LENGTH: 73
;    TYPE: PRT
;    ORGANISM: Drosophila melanogaster
US-09-270-767-50589

  Query Match             70.2%;  Score 40;  DB 2;  Length 73;
  Best Local Similarity   66.7%;  Pred. No. 58;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              | || |||:
Db         19 TKRCASCCK 27


RESULT 28
US-09-674-973A-189
; Sequence 189, Application US/09674973A
; Patent No. 6759046
; GENERAL INFORMATION:
;  APPLICANT: No. 6759046sk Hydro ASA
;  TITLE OF INVENTION: Peptides
;  FILE REFERENCE: 26625-296
;  CURRENT APPLICATION NUMBER: US/09/674,973A
;  CURRENT FILING DATE:  2001-06-04
;  NUMBER OF SEQ ID NOS: 459
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 189
;    LENGTH: 85
;    TYPE: PRT
;    ORGANISM: Homo sapiens
US-09-674-973A-189

  Query Match             70.2%;  Score 40;  DB 2;  Length 85;
  Best Local Similarity   66.7%;  Pred. No. 66;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              :|| :||||
Db          5 SGRSLSCCR 13


RESULT 29
US-09-674-973A-191
; Sequence 191, Application US/09674973A
; Patent No. 6759046
; GENERAL INFORMATION:
;  APPLICANT: No. 6759046sk Hydro ASA
;  TITLE OF INVENTION: Peptides
;  FILE REFERENCE: 26625-296
;  CURRENT APPLICATION NUMBER: US/09/674,973A
;  CURRENT FILING DATE:  2001-06-04
;  NUMBER OF SEQ ID NOS: 459
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 191
;    LENGTH: 94
;    TYPE: PRT
;    ORGANISM: Homo sapiens
US-09-674-973A-191

  Query Match             70.2%;  Score 40;  DB 2;  Length 94;
  Best Local Similarity   66.7%;  Pred. No. 72;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              :|| :||||
Db         14 SGRSLSCCR 22


RESULT 30
US-09-674-973A-192
; Sequence 192, Application US/09674973A
; Patent No. 6759046
; GENERAL INFORMATION:
;  APPLICANT: No. 6759046sk Hydro ASA
;  TITLE OF INVENTION: Peptides
;  FILE REFERENCE: 26625-296
;  CURRENT APPLICATION NUMBER: US/09/674,973A
;  CURRENT FILING DATE:  2001-06-04
;  NUMBER OF SEQ ID NOS: 459
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 192
;    LENGTH: 95
;    TYPE: PRT
;    ORGANISM: Homo sapiens
US-09-674-973A-192

  Query Match             70.2%;  Score 40;  DB 2;  Length 95;
  Best Local Similarity   66.7%;  Pred. No. 72;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              :|| :||||
Db         15 SGRSLSCCR 23


RESULT 31
US-09-252-991A-23893
; Sequence 23893, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 23893
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```
;   LENGTH: 226
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-23893

  Query Match             70.2%;  Score 40;  DB 2;  Length 226;
  Best Local Similarity   75.0%;  Pred. No. 1.5e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCC 8
              | || |||
Db        105 TSRCSSCC 112


RESULT 32
US-09-330-611-16
; Sequence 16, Application US/09330611
; Patent No. 6248874
; GENERAL INFORMATION:
;  APPLICANT: FREY, Perry A.
;  APPLICANT: RUZICKA, Frank J.
;  TITLE OF INVENTION: DNA MOLECULES ENCODING BACTERIAL LYSINE 2,3-AMINOMUTASE
;  FILE REFERENCE: 032026/0476
;  CURRENT APPLICATION NUMBER: US/09/330,611
;  CURRENT FILING DATE: 1999-06-11
;  EARLIER APPLICATION NUMBER: US 09/198,942
;  EARLIER FILING DATE: 1998-11-24
;  NUMBER OF SEQ ID NOS: 32
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 16
;   LENGTH: 355
;   TYPE: PRT
;   ORGANISM: Treponema pallidum
US-09-330-611-16

  Query Match             70.2%;  Score 40;  DB 2;  Length 355;
  Best Local Similarity   77.8%;  Pred. No. 2.1e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||| | ||
Db        105 TGRCFSHCR 113


RESULT 33
US-09-354-129-12
; Sequence 12, Application US/09354129
; Patent No. 6136588
; GENERAL INFORMATION:
;  APPLICANT: YE, RICK W.
;  TITLE OF INVENTION: GENES ENCODING DENITRIFICATION REACTIONS
;  FILE REFERENCE: CL-1255
;  CURRENT APPLICATION NUMBER: US/09/354,129
;  CURRENT FILING DATE: 1999-07-15
;  EARLIER APPLICATION NUMBER: 60/093,181
;  EARLIER FILING DATE: July 17, 1998
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: Microsoft Office 97
; SEQ ID NO 12
;   LENGTH: 163
;   TYPE: PRT
;   ORGANISM: Pseudomonas sp. strain G-179
US-09-354-129-12

  Query Match             68.4%;  Score 39;  DB 2;  Length 163;
  Best Local Similarity   77.8%;  Pred. No. 1.5e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              | |||| |
Db         87 TNRCMSCHR 95


RESULT 34
US-09-504-357-12
; Sequence 12, Application US/09504357
; Patent No. 6429003
; GENERAL INFORMATION:
;  APPLICANT: YE, RICK W.
;  TITLE OF INVENTION: GENES ENCODING DENITRIFICATION REACTIONS
;  FILE REFERENCE: CL-1255
;  CURRENT APPLICATION NUMBER: US/09/504,357
;  CURRENT FILING DATE: 2000-02-15
;  EARLIER APPLICATION NUMBER: 60/093,181
;  EARLIER FILING DATE: July 17, 1998
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: Microsoft Office 97
; SEQ ID NO 12
;   LENGTH: 163
;   TYPE: PRT
;   ORGANISM: Pseudomonas sp. strain G-179
US-09-504-357-12

  Query Match             68.4%;  Score 39;  DB 2;  Length 163;
  Best Local Similarity   77.8%;  Pred. No. 1.5e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              | |||| |
Db         87 TNRCMSCHR 95


RESULT 35
US-09-252-991A-18776
; Sequence 18776, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 18776
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18776

  Query Match             68.4%;  Score 39;  DB 2;  Length 266;
  Best Local Similarity   75.0%;  Pred. No. 2.3e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCC 8
              ||||  ||
Db        212 TGRCGCCC 219


RESULT 36
US-09-198-452A-1276
; Sequence 1276, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
;  APPLICANT: Griffais, R.
;  TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
;  TITLE OF INVENTION:  thereof and uses thereof, in particular for the diagnosis, prever
;  TITLE OF INVENTION:  and treatment of infection
;  FILE REFERENCE: 9710-003-999
;  CURRENT APPLICATION NUMBER: US/09/198,452A
;  CURRENT FILING DATE:  1998-11-24
;  NUMBER OF SEQ ID NOS: 6849
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; SEQ ID NO 1276
; LENGTH: 84
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-1276

Query Match 66.7%; Score 38; DB 2; Length 84;
Best Local Similarity 85.7%; Pred. No. 1.2e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 RCMSCCR 9
|| ||||
Db 9 RCGSCCR 15

RESULT 37
US-09-252-991A-27237
; Sequence 27237, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 27237
; LENGTH: 87
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-27237

Query Match 66.7%; Score 38; DB 2; Length 87;
Best Local Similarity 71.4%; Pred. No. 1.2e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 GRCMSCC 8
||| :||
Db 42 GRCRTCC 48

RESULT 38
US-10-197-220-140
; Sequence 140, Application US/10197220
; Patent No. 6919187
; GENERAL INFORMATION:
; APPLICANT: Bhatia, Ajay
; APPLICANT: Guderian, Jeff
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Maisonneuve, Jean-Francois L.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR TREATMENT
; TITLE OF INVENTION: AND DIAGNOSIS OF CHLAMYDIAL INFECTION
; FILE REFERENCE: 210121.515C3
; CURRENT APPLICATION NUMBER: US/10/197,220
; CURRENT FILING DATE: 2002-07-15
; NUMBER OF SEQ ID NOS: 175
; SEQ ID NO 140
; LENGTH: 598
; TYPE: PRT
; ORGANISM: Chlamydia trachomatis
US-10-197-220-140

Query Match 66.7%; Score 38; DB 2; Length 598;
Best Local Similarity 71.4%; Pred. No. 5.9e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 3 RCMSCCR 9
|| |||:
Db 399 RCFSCCK 405

RESULT 39
US-09-356-952-6
; Sequence 6, Application US/09356952
; Patent No. 6117663
; GENERAL INFORMATION:
; APPLICANT: Boriack-Sjodin, Ann
; APPLICANT: Margarit, S. M.
; APPLICANT: Bor-Sogi, Dafna
; APPLICANT: Cole, Philip
; APPLICANT: Kuriyan, John
; TITLE OF INVENTION: A CRYSTAL OF A RAS-SOS COMPLEX AND METHODS OF USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 600-1-228N
; CURRENT APPLICATION NUMBER: US/09/356,952
; CURRENT FILING DATE: 1999-07-19
; EARLIER APPLICATION NUMBER: 60/093,631
; EARLIER FILING DATE: 1998-07-21
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 911
; TYPE: PRT
; ORGANISM: Schizosaccharomyces pombe
US-09-356-952-6

Query Match 66.7%; Score 38; DB 2; Length 911;
Best Local Similarity 71.4%; Pred. No. 8.3e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 3 RCMSCCR 9
||: |||
Db 323 RCIQCCR 329

RESULT 40
US-09-481-593-21
; Sequence 21, Application US/09481593
; Patent No. 6495346
; GENERAL INFORMATION:
; APPLICANT: JEROME, Valerie
; APPLICANT: SEDLACEK, Hans-Harald
; APPLICANT: MUELLER, Rolf
; TITLE OF INVENTION: NOVEL COMPLEX-FORMING PROTEINS
; FILE REFERENCE: 38005-0097
; CURRENT APPLICATION NUMBER: US/09/481,593
; CURRENT FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: DE 19900743.8
; PRIOR FILING DATE: 1999-01-12
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 21
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-09-481-593-21

Query Match 64.9%; Score 37; DB 2; Length 17;
Best Local Similarity 62.5%; Pred. No. 45;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TGRCMSCC 8
|| | :||
Db 9 TGTCCTCC 16

RESULT 41
US-08-900-230-24
; Sequence 24, Application US/08900230
; Patent No. 6329197
; GENERAL INFORMATION:

```
;    APPLICANT:  Bard, Jonathan A.
;    TITLE OF INVENTION:  DNA ENCODING GALANN GALR3 RECEPTORS AND
;    TITLE OF INVENTION:  USES THEREOF
;    NUMBER OF SEQUENCES:  59
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Cooper & Dunham LLp
;      STREET:  1185 Avenue of The Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  11036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/900,230
;      FILING DATE:  23-JUL-1997
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  White, John P.
;      REGISTRATION NUMBER:  28,678
;      REFERENCE/DOCKET NUMBER:  52241-C/JPW/ADM
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  212-278-0400
;      TELEFAX:  212-391-0525
;  INFORMATION FOR SEQ ID NO:  24:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  24 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
US-08-900-230-24

  Query Match             64.9%;  Score 37;  DB 2;  Length 24;
  Best Local Similarity   62.5%;  Pred. No. 59;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCC 8
              || | :||
Db          4 TGACATCC 11


RESULT 42
PCT-US96-01720-7
; Sequence 7, Application PC/TUS9601720
;  GENERAL INFORMATION:
;    APPLICANT:
;    TITLE OF INVENTION:  MODIFIED-AFFINITY STREPTAVIDIN
;    NUMBER OF SEQUENCES:  11
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US96/01720
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/387,055
;      FILING DATE:  09-FEB-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Parmelee, Steven W.
;      REGISTRATION NUMBER:  31,990
;      REFERENCE/DOCKET NUMBER:  16336-5PC
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  41 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
PCT-US96-01720-7

  Query Match             64.9%;  Score 37;  DB 4;  Length 41;
  Best Local Similarity   62.5%;  Pred. No. 91;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCC 8
              || | :||
Db         10 TGACCTCC 17


RESULT 43
US-08-900-230-39
; Sequence 39, Application US/08900230
; Patent No. 6329197
;  GENERAL INFORMATION:
;    APPLICANT:  Bard, Jonathan A.
;    TITLE OF INVENTION:  DNA ENCODING GALANN GALR3 RECEPTORS AND
;    TITLE OF INVENTION:  USES THEREOF
;    NUMBER OF SEQUENCES:  59
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Cooper & Dunham LLp
;      STREET:  1185 Avenue of The Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  11036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/900,230
;      FILING DATE:  23-JUL-1997
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  White, John P.
;      REGISTRATION NUMBER:  28,678
;      REFERENCE/DOCKET NUMBER:  52241-C/JPW/ADM
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  212-278-0400
;      TELEFAX:  212-391-0525
;  INFORMATION FOR SEQ ID NO:  39:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  45 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
US-08-900-230-39

  Query Match             64.9%;  Score 37;  DB 2;  Length 45;
  Best Local Similarity   62.5%;  Pred. No. 99;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCC 8
              || | :||
Db          8 TGACATCC 15


RESULT 44
US-09-252-991A-25074
; Sequence 25074, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
```

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;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 25074
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-25074

  Query Match             64.9%;  Score 37;  DB 2;  Length 158;
  Best Local Similarity   71.4%;  Pred. No. 2.7e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 RCMSCCR 9
              || :|||
Db         49 RCCACCR 55


RESULT 45
US-09-252-991A-25636
; Sequence 25636, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 25636
;   LENGTH: 223
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-25636

  Query Match             64.9%;  Score 37;  DB 2;  Length 223;
  Best Local Similarity   85.7%;  Pred. No. 3.6e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TGRCMSC 7
              |||| ||
Db         62 TGRCTSC 68


RESULT 46
5268290-2
;Patent No. 5268290
;     APPLICANT: Hasegawa, Mamoru;Sakurada, Kazuhiro
;     TITLE OF INVENTION: PROCESS FOR PRODUCING NEURAMINIDASE
;     NUMBER OF SEQUENCES: 2
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/07/384,709
;       FILING DATE: 25-JUL-1989
;SEQ ID NO:2:
;       LENGTH: 626
5268290-2

  Query Match             64.9%;  Score 37;  DB 6;  Length 626;
  Best Local Similarity   85.7%;  Pred. No. 8.4e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TGRCMSC 7
              |||| ||
Db        557 TGRCASC 563


RESULT 47
US-09-756-071B-20
; Sequence 20, Application US/09756071B
; Patent No. 6955924
;  GENERAL INFORMATION:
;       APPLICANT: Tryggvason, Karl
;                  Kallunki, Pekka
;                  Pyke, Charles
;       TITLE OF INVENTION: Laminin Chains: Diagnostic Uses
;       NUMBER OF SEQUENCES: 20
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: Fay Sharpe Fagan Minnich & McKee
;            STREET: 1100 Superior Ave, Suite 700
;            CITY: Cleveland
;            STATE: Ohio
;            COUNTRY: USA
;            ZIP: 44114
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.30
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/756,071B
;            FILING DATE: 08-Jan-2001
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: US 09/663,147
;            FILING DATE: 150-September 2000
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Minnich, Richard, J.
;            REGISTRATION NUMBER: 24,175
;            REFERENCE/DOCKET NUMBER: TRV 20014
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: 216-861-5582
;            TELEFAX: 216-241-1666
;  INFORMATION FOR SEQ ID NO: 20:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 720 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       SEQUENCE DESCRIPTION: SEQ ID NO: 20:
US-09-756-071B-20

  Query Match             64.9%;  Score 37;  DB 2;  Length 720;
  Best Local Similarity   62.5%;  Pred. No. 9.4e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCC 8
              || | :||
Db        172 TGTCTTCC 179


RESULT 48
US-10-142-231-86
; Sequence 86, Application US/10142231
; Patent No. 6787343
; GENERAL INFORMATION:
;  APPLICANT: Croteau, Rodney et al.
;  TITLE OF INVENTION: CYTOCHROME P450 OXYGENASES AND THEIR USES
;  FILE REFERENCE: 62773
;  CURRENT APPLICATION NUMBER: US/10/142,231
;  CURRENT FILING DATE:  2002-05-08
;  PRIOR APPLICATION NUMBER: 60/165,250
;  PRIOR FILING DATE: 1999-11-12
;  NUMBER OF SEQ ID NOS: 95
;  SOFTWARE: PatentIn Ver. 2.1
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; SEQ ID NO 86
; LENGTH: 1461
; TYPE: PRT
; ORGANISM: Taxus cuspidata
US-10-142-231-86

Query Match 64.9%; Score 37; DB 2; Length 1461;
Best Local Similarity 62.5%; Pred. No. 1.7e+03;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TGRCMSCC 8
|| | :||
Db 1017 TGACTACC 1024

RESULT 49
US-09-627-650B-5
; Sequence 5, Application US/09627650B
; Patent No. 6406872
; GENERAL INFORMATION:
; APPLICANT: Bamber, Bruce
; APPLICANT: Jorgensen, Erik
; TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
; TITLE OF INVENTION: Methods Related Thereto
; FILE REFERENCE: 21101.0009U3
; CURRENT APPLICATION NUMBER: US/09/627,650B
; CURRENT FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: 09/436,063
; PRIOR FILING DATE: 1999-11-08
; PRIOR APPLICATION NUMBER: 60/107,727
; PRIOR FILING DATE: 1998-11-09
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1917
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-09-627-650B-5

Query Match 64.9%; Score 37; DB 2; Length 1917;
Best Local Similarity 62.5%; Pred. No. 2.1e+03;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TGRCMSCC 8
|| | :||
Db 906 TGTCCACC 913

RESULT 50
US-09-436-063C-5
; Sequence 5, Application US/09436063C
; Patent No. 6407210
; GENERAL INFORMATION:
; APPLICANT: Bamber, Bruce
; APPLICANT: Jorgensen, Erik
; TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
; TITLE OF INVENTION: Methods Related Thereto
; FILE REFERENCE: P-1095corrected
; CURRENT APPLICATION NUMBER: US/09/436,063C
; CURRENT FILING DATE: 1999-11-08
; PRIOR APPLICATION NUMBER: 60/107727
; PRIOR FILING DATE: 1998-11-09
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1917
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-09-436-063C-5

Query Match 64.9%; Score 37; DB 2; Length 1917;
Best Local Similarity 62.5%; Pred. No. 2.1e+03;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TGRCMSCC 8
|| | :||
Db 906 TGTCCACC 913

Search completed: May 5, 2006, 01:37:47
Job time : 24.2 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:10:32 ; Search time 68.2 Seconds
(without alignments)
55.139 Million cell updates/sec

Title: US-08-170-344-63
Perfect score: 57
Sequence: 1 TGRCMSCCR 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_Main:*
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
|---|---|---|---|---|---|---|
| 1 | 57 | 100.0 | 16 | 5 | US-10-484-063-9 | Sequence 9, Appli |
| 2 | 57 | 100.0 | 20 | 5 | US-10-938-249-513 | Sequence 513, App |
| 3 | 57 | 100.0 | 24 | 4 | US-10-476-570-44 | Sequence 44, Appl |
| 4 | 57 | 100.0 | 151 | 4 | US-10-177-390-6 | Sequence 6, Appli |
| 5 | 57 | 100.0 | 151 | 5 | US-10-484-063-20 | Sequence 20, Appl |
| 6 | 57 | 100.0 | 151 | 5 | US-10-484-063-27 | Sequence 27, Appl |
| 7 | 57 | 100.0 | 158 | 5 | US-10-858-384-2 | Sequence 2, Appli |
| 8 | 57 | 100.0 | 158 | 5 | US-10-367-057-16 | Sequence 16, Appl |
| 9 | 57 | 100.0 | 158 | 6 | US-11-021-949-13 | Sequence 13, Appl |
| 10 | 57 | 100.0 | 171 | 4 | US-10-472-724-2 | Sequence 2, Appli |
| 11 | 57 | 100.0 | 243 | 6 | US-11-072-288-1 | Sequence 1, Appli |
| 12 | 57 | 100.0 | 266 | 3 | US-09-367-309A-1 | Sequence 1, Appli |
| 13 | 57 | 100.0 | 273 | 4 | US-10-000-903-4 | Sequence 4, Appli |
| 14 | 57 | 100.0 | 273 | 5 | US-10-899-771-4 | Sequence 4, Appli |
| 15 | 57 | 100.0 | 292 | 4 | US-10-000-903-10 | Sequence 10, Appl |
| 16 | 57 | 100.0 | 292 | 5 | US-10-899-771-10 | Sequence 10, Appl |
| 17 | 57 | 100.0 | 371 | 4 | US-10-000-903-6 | Sequence 6, Appli |
| 18 | 57 | 100.0 | 371 | 5 | US-10-899-771-6 | Sequence 6, Appli |
| 19 | 57 | 100.0 | 390 | 4 | US-10-000-903-14 | Sequence 14, Appl |
| 20 | 57 | 100.0 | 390 | 5 | US-10-899-771-14 | Sequence 14, Appl |
| 21 | 52 | 91.2 | 10 | 5 | US-10-484-063-10 | Sequence 10, Appl |
| 22 | 52 | 91.2 | 24 | 6 | US-11-021-949-5 | Sequence 5, Appli |
| 23 | 45 | 78.9 | 118 | 4 | US-10-425-115-214017 | Sequence 214017, |
| 24 | 43 | 75.4 | 149 | 6 | US-11-021-949-14 | Sequence 14, Appl |
| 25 | 43 | 75.4 | 573 | 4 | US-10-094-749-3195 | Sequence 3195, Ap |
| 26 | 42 | 73.7 | 181 | 4 | US-10-437-963-197255 | Sequence 197255, |
| 27 | 42 | 73.7 | 1135 | 5 | US-10-450-763-56108 | Sequence 56108, A |
| 28 | 41 | 71.9 | 56 | 4 | US-10-425-115-266658 | Sequence 266658, |
| 29 | 41 | 71.9 | 89 | 3 | US-09-984-245-155 | Sequence 155, App |
| 30 | 41 | 71.9 | 89 | 3 | US-09-966-262-155 | Sequence 155, App |
| 31 | 41 | 71.9 | 89 | 3 | US-09-983-966-155 | Sequence 155, App |
| 32 | 41 | 71.9 | 89 | 3 | US-09-978-360A-724 | Sequence 724, App |
| 33 | 41 | 71.9 | 89 | 4 | US-10-059-395-155 | Sequence 155, App |
| 34 | 41 | 71.9 | 89 | 4 | US-10-143-090-155 | Sequence 155, App |
| 35 | 41 | 71.9 | 89 | 4 | US-10-319-763-118 | Sequence 118, App |
| 36 | 41 | 71.9 | 89 | 4 | US-10-319-763-212 | Sequence 212, App |
| 37 | 41 | 71.9 | 89 | 5 | US-10-960-251-155 | Sequence 155, App |
| 38 | 41 | 71.9 | 113 | 4 | US-10-425-115-357248 | Sequence 357248, |
| 39 | 41 | 71.9 | 377 | 5 | US-10-739-930-11071 | Sequence 11071, A |
| 40 | 41 | 71.9 | 460 | 3 | US-09-782-980-82 | Sequence 82, Appl |
| 41 | 41 | 71.9 | 460 | 3 | US-09-884-430-6 | Sequence 6, Appli |
| 42 | 41 | 71.9 | 460 | 3 | US-09-826-509-513 | Sequence 513, App |
| 43 | 41 | 71.9 | 460 | 4 | US-10-225-567A-188 | Sequence 188, App |
| 44 | 41 | 71.9 | 460 | 4 | US-10-336-489-6 | Sequence 6, Appli |
| 45 | 41 | 71.9 | 460 | 4 | US-10-423-543-93 | Sequence 93, Appl |
| 46 | 41 | 71.9 | 460 | 4 | US-10-806-018-82 | Sequence 82, Appl |
| 47 | 41 | 71.9 | 460 | 5 | US-10-925-095-513 | Sequence 513, App |
| 48 | 41 | 71.9 | 478 | 4 | US-10-029-009-10 | Sequence 10, Appl |
| 49 | 41 | 71.9 | 498 | 4 | US-10-029-009-22 | Sequence 22, Appl |
| 50 | 40 | 70.2 | 61 | 3 | US-09-864-761-36259 | Sequence 36259, A |
| 51 | 40 | 70.2 | 85 | 5 | US-10-776-224-189 | Sequence 189, App |
| 52 | 40 | 70.2 | 94 | 5 | US-10-776-224-191 | Sequence 191, App |
| 53 | 40 | 70.2 | 95 | 5 | US-10-776-224-192 | Sequence 192, App |
| 54 | 40 | 70.2 | 332 | 4 | US-10-108-260A-2799 | Sequence 2799, Ap |
| 55 | 40 | 70.2 | 355 | 3 | US-09-847-010-16 | Sequence 16, Appl |
| 56 | 40 | 70.2 | 355 | 4 | US-10-235-939-16 | Sequence 16, Appl |
| 57 | 40 | 70.2 | 581 | 4 | US-10-094-749-2981 | Sequence 2981, Ap |
| 58 | 39.5 | 69.3 | 148 | 4 | US-10-408-765A-2274 | Sequence 2274, Ap |
| 59 | 39 | 68.4 | 20 | 5 | US-10-938-249-515 | Sequence 515, App |
| 60 | 39 | 68.4 | 88 | 5 | US-10-450-763-48703 | Sequence 48703, A |
| 61 | 39 | 68.4 | 90 | 4 | US-10-424-599-142904 | Sequence 142904, |
| 62 | 39 | 68.4 | 149 | 6 | US-11-021-949-18 | Sequence 18, Appl |
| 63 | 39 | 68.4 | 152 | 5 | US-10-868-381-11 | Sequence 11, Appl |
| 64 | 39 | 68.4 | 174 | 5 | US-10-868-381-97 | Sequence 97, Appl |
| 65 | 39 | 68.4 | 324 | 4 | US-10-425-114-40256 | Sequence 40256, A |
| 66 | 39 | 68.4 | 426 | 4 | US-10-270-333-87 | Sequence 87, Appl |
| 67 | 39 | 68.4 | 426 | 6 | US-11-097-143-16710 | Sequence 16710, A |
| 68 | 39 | 68.4 | 526 | 4 | US-10-424-599-225865 | Sequence 225865, |
| 69 | 39 | 68.4 | 1925 | 4 | US-10-437-963-152541 | Sequence 152541, |
| 70 | 38.5 | 67.5 | 148 | 4 | US-10-424-599-156036 | Sequence 156036, |
| 71 | 38 | 66.7 | 52 | 4 | US-10-425-115-341762 | Sequence 341762, |
| 72 | 38 | 66.7 | 67 | 5 | US-10-808-187-1685 | Sequence 1685, Ap |
| 73 | 38 | 66.7 | 67 | 5 | US-10-807-807-1685 | Sequence 1685, Ap |
| 74 | 38 | 66.7 | 69 | 4 | US-10-424-599-284858 | Sequence 284858, |
| 75 | 38 | 66.7 | 79 | 3 | US-09-867-550-860 | Sequence 860, App |
| 76 | 38 | 66.7 | 83 | 4 | US-10-424-599-238873 | Sequence 238873, |
| 77 | 38 | 66.7 | 84 | 4 | US-10-289-762-1276 | Sequence 1276, Ap |
| 78 | 38 | 66.7 | 93 | 4 | US-10-425-115-265982 | Sequence 265982, |
| 79 | 38 | 66.7 | 118 | 4 | US-10-425-115-220603 | Sequence 220603, |
| 80 | 38 | 66.7 | 188 | 4 | US-10-437-963-104242 | Sequence 104242, |
| 81 | 38 | 66.7 | 190 | 4 | US-10-425-115-280642 | Sequence 280642, |
| 82 | 38 | 66.7 | 231 | 4 | US-10-108-260A-4877 | Sequence 4877, Ap |
| 83 | 38 | 66.7 | 269 | 4 | US-10-425-114-62246 | Sequence 62246, A |
| 84 | 38 | 66.7 | 327 | 3 | US-09-738-626-5473 | Sequence 5473, Ap |
| 85 | 38 | 66.7 | 426 | 5 | US-10-450-763-44574 | Sequence 44574, A |
| 86 | 38 | 66.7 | 470 | 4 | US-10-437-963-139435 | Sequence 139435, |
| 87 | 38 | 66.7 | 521 | 4 | US-10-437-963-104430 | Sequence 104430, |
| 88 | 38 | 66.7 | 591 | 5 | US-10-996-306-232 | Sequence 232, App |
| 89 | 38 | 66.7 | 598 | 3 | US-09-841-260-140 | Sequence 140, App |
| 90 | 38 | 66.7 | 598 | 4 | US-10-007-693-140 | Sequence 140, App |
| 91 | 38 | 66.7 | 598 | 4 | US-10-762-058-140 | Sequence 140, App |
| 92 | 38 | 66.7 | 598 | 5 | US-10-197-220-140 | Sequence 140, App |
| 93 | 38 | 66.7 | 598 | 6 | US-11-109-468-140 | Sequence 140, App |
| 94 | 38 | 66.7 | 747 | 4 | US-10-425-114-38701 | Sequence 38701, A |
| 95 | 38 | 66.7 | 817 | 4 | US-10-425-114-38290 | Sequence 38290, A |
| 96 | 38 | 66.7 | 911 | 4 | US-10-369-493-22752 | Sequence 22752, A |
| 97 | 38 | 66.7 | 941 | 4 | US-10-424-599-210074 | Sequence 210074, |
| 98 | 37 | 64.9 | 23 | 4 | US-10-461-194-44 | Sequence 44, Appl |
| 99 | 37 | 64.9 | 24 | 2 | US-08-900-230-24 | Sequence 24, Appl |
| 100 | 37 | 64.9 | 27 | 4 | US-10-097-065-441 | Sequence 441, App |

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| 101 | 37 | 64.9 | 27 | 4 | US-10-372-876-441 | Sequence 441, App |
| 102 | 37 | 64.9 | 31 | 3 | US-09-798-889-105 | Sequence 105, App |
| 103 | 37 | 64.9 | 31 | 4 | US-10-633-680-105 | Sequence 105, App |
| 104 | 37 | 64.9 | 32 | 4 | US-10-380-927-11 | Sequence 11, Appl |
| 105 | 37 | 64.9 | 41 | 4 | US-10-184-644-612 | Sequence 612, App |
| 106 | 37 | 64.9 | 41 | 4 | US-10-184-634-612 | Sequence 612, App |
| 107 | 37 | 64.9 | 41 | 4 | US-10-063-685-170 | Sequence 170, App |
| 108 | 37 | 64.9 | 45 | 2 | US-08-900-230-39 | Sequence 39, Appl |
| 109 | 37 | 64.9 | 45 | 5 | US-10-808-187-193 | Sequence 193, App |
| 110 | 37 | 64.9 | 45 | 5 | US-10-807-807-193 | Sequence 193, App |
| 111 | 37 | 64.9 | 64 | 4 | US-10-425-115-246076 | Sequence 246076, |
| 112 | 37 | 64.9 | 69 | 4 | US-10-424-599-167228 | Sequence 167228, |
| 113 | 37 | 64.9 | 70 | 4 | US-10-424-599-202673 | Sequence 202673, |
| 114 | 37 | 64.9 | 70 | 4 | US-10-425-115-328558 | Sequence 328558, |
| 115 | 37 | 64.9 | 71 | 4 | US-10-011-931-34 | Sequence 34, Appl |
| 116 | 37 | 64.9 | 71 | 4 | US-10-269-806-122 | Sequence 122, App |
| 117 | 37 | 64.9 | 71 | 4 | US-10-269-806-146 | Sequence 146, App |
| 118 | 37 | 64.9 | 71 | 5 | US-10-985-299-34 | Sequence 34, Appl |
| 119 | 37 | 64.9 | 80 | 4 | US-10-424-599-233509 | Sequence 233509, |
| 120 | 37 | 64.9 | 82 | 4 | US-10-425-115-254198 | Sequence 254198, |
| 121 | 37 | 64.9 | 88 | 5 | US-10-450-763-48672 | Sequence 48672, A |
| 122 | 37 | 64.9 | 97 | 5 | US-10-450-763-32900 | Sequence 32900, A |
| 123 | 37 | 64.9 | 106 | 4 | US-10-424-599-242197 | Sequence 242197, |
| 124 | 37 | 64.9 | 125 | 4 | US-10-425-115-232874 | Sequence 232874, |
| 125 | 37 | 64.9 | 130 | 4 | US-10-425-114-49337 | Sequence 49337, A |
| 126 | 37 | 64.9 | 135 | 4 | US-10-097-065-437 | Sequence 437, App |
| 127 | 37 | 64.9 | 135 | 4 | US-10-372-876-437 | Sequence 437, App |
| 128 | 37 | 64.9 | 144 | 4 | US-10-282-122A-56927 | Sequence 56927, A |
| 129 | 37 | 64.9 | 152 | 4 | US-10-425-115-305852 | Sequence 305852, |
| 130 | 37 | 64.9 | 164 | 4 | US-10-424-599-191898 | Sequence 191898, |
| 131 | 37 | 64.9 | 168 | 4 | US-10-425-114-50544 | Sequence 50544, A |
| 132 | 37 | 64.9 | 230 | 4 | US-10-425-115-303340 | Sequence 303340, |
| 133 | 37 | 64.9 | 241 | 4 | US-10-425-115-328704 | Sequence 328704, |
| 134 | 37 | 64.9 | 252 | 5 | US-10-450-763-50158 | Sequence 50158, A |
| 135 | 37 | 64.9 | 253 | 3 | US-09-798-889-99 | Sequence 99, Appl |
| 136 | 37 | 64.9 | 253 | 4 | US-10-633-680-99 | Sequence 99, Appl |
| 137 | 37 | 64.9 | 333 | 4 | US-10-184-644-395 | Sequence 395, App |
| 138 | 37 | 64.9 | 333 | 4 | US-10-184-634-395 | Sequence 395, App |
| 139 | 37 | 64.9 | 333 | 4 | US-10-063-685-147 | Sequence 147, App |
| 140 | 37 | 64.9 | 350 | 4 | US-10-437-963-119366 | Sequence 119366, |
| 141 | 37 | 64.9 | 381 | 4 | US-10-073-912-18 | Sequence 18, Appl |
| 142 | 37 | 64.9 | 400 | 5 | US-10-287-436A-236 | Sequence 236, App |
| 143 | 37 | 64.9 | 422 | 4 | US-10-184-644-241 | Sequence 241, App |
| 144 | 37 | 64.9 | 422 | 4 | US-10-184-634-241 | Sequence 241, App |
| 145 | 37 | 64.9 | 422 | 4 | US-10-063-685-65 | Sequence 65, Appl |
| 146 | 37 | 64.9 | 496 | 4 | US-10-123-155-533 | Sequence 533, App |
| 147 | 37 | 64.9 | 496 | 4 | US-10-146-731-533 | Sequence 533, App |
| 148 | 37 | 64.9 | 496 | 4 | US-10-140-472-533 | Sequence 533, App |
| 149 | 37 | 64.9 | 496 | 4 | US-10-141-761-533 | Sequence 533, App |
| 150 | 37 | 64.9 | 496 | 4 | US-10-142-885-533 | Sequence 533, App |
| 151 | 37 | 64.9 | 496 | 4 | US-10-158-790-533 | Sequence 533, App |
| 152 | 37 | 64.9 | 496 | 4 | US-10-137-871-533 | Sequence 533, App |
| 153 | 37 | 64.9 | 496 | 4 | US-10-140-923-533 | Sequence 533, App |
| 154 | 37 | 64.9 | 496 | 4 | US-10-141-756-533 | Sequence 533, App |
| 155 | 37 | 64.9 | 496 | 4 | US-10-141-759-533 | Sequence 533, App |
| 156 | 37 | 64.9 | 496 | 4 | US-10-140-805-533 | Sequence 533, App |
| 157 | 37 | 64.9 | 496 | 4 | US-10-140-864-533 | Sequence 533, App |
| 158 | 37 | 64.9 | 526 | 4 | US-10-123-155-249 | Sequence 249, App |
| 159 | 37 | 64.9 | 526 | 4 | US-10-146-731-249 | Sequence 249, App |
| 160 | 37 | 64.9 | 526 | 4 | US-10-140-472-249 | Sequence 249, App |
| 161 | 37 | 64.9 | 526 | 4 | US-10-141-761-249 | Sequence 249, App |
| 162 | 37 | 64.9 | 526 | 4 | US-10-142-885-249 | Sequence 249, App |
| 163 | 37 | 64.9 | 526 | 4 | US-10-158-790-249 | Sequence 249, App |
| 164 | 37 | 64.9 | 526 | 4 | US-10-137-871-249 | Sequence 249, App |
| 165 | 37 | 64.9 | 526 | 4 | US-10-140-923-249 | Sequence 249, App |
| 166 | 37 | 64.9 | 526 | 4 | US-10-141-756-249 | Sequence 249, App |
| 167 | 37 | 64.9 | 526 | 4 | US-10-141-759-249 | Sequence 249, App |
| 168 | 37 | 64.9 | 526 | 4 | US-10-140-805-249 | Sequence 249, App |
| 169 | 37 | 64.9 | 526 | 4 | US-10-140-864-249 | Sequence 249, App |
| 170 | 37 | 64.9 | 535 | 4 | US-10-063-685-159 | Sequence 159, App |
| 171 | 37 | 64.9 | 544 | 3 | US-09-791-932-40 | Sequence 40, Appl |
| 172 | 37 | 64.9 | 551 | 4 | US-10-184-644-141 | Sequence 141, App |
| 173 | 37 | 64.9 | 551 | 4 | US-10-184-634-141 | Sequence 141, App |
| 174 | 37 | 64.9 | 584 | 4 | US-10-123-155-401 | Sequence 401, App |
| 175 | 37 | 64.9 | 584 | 4 | US-10-146-731-401 | Sequence 401, App |
| 176 | 37 | 64.9 | 584 | 4 | US-10-140-472-401 | Sequence 401, App |
| 177 | 37 | 64.9 | 584 | 4 | US-10-141-761-401 | Sequence 401, App |
| 178 | 37 | 64.9 | 584 | 4 | US-10-142-885-401 | Sequence 401, App |
| 179 | 37 | 64.9 | 584 | 4 | US-10-158-790-401 | Sequence 401, App |
| 180 | 37 | 64.9 | 584 | 4 | US-10-137-871-401 | Sequence 401, App |
| 181 | 37 | 64.9 | 584 | 4 | US-10-140-923-401 | Sequence 401, App |
| 182 | 37 | 64.9 | 584 | 4 | US-10-141-756-401 | Sequence 401, App |
| 183 | 37 | 64.9 | 584 | 4 | US-10-141-759-401 | Sequence 401, App |
| 184 | 37 | 64.9 | 584 | 4 | US-10-140-805-401 | Sequence 401, App |
| 185 | 37 | 64.9 | 584 | 4 | US-10-140-864-401 | Sequence 401, App |
| 186 | 37 | 64.9 | 609 | 4 | US-10-437-963-135729 | Sequence 135729, |
| 187 | 37 | 64.9 | 636 | 4 | US-10-123-155-507 | Sequence 507, App |
| 188 | 37 | 64.9 | 636 | 4 | US-10-146-731-507 | Sequence 507, App |
| 189 | 37 | 64.9 | 636 | 4 | US-10-140-472-507 | Sequence 507, App |
| 190 | 37 | 64.9 | 636 | 4 | US-10-141-761-507 | Sequence 507, App |
| 191 | 37 | 64.9 | 636 | 4 | US-10-142-885-507 | Sequence 507, App |
| 192 | 37 | 64.9 | 636 | 4 | US-10-158-790-507 | Sequence 507, App |
| 193 | 37 | 64.9 | 636 | 4 | US-10-137-871-507 | Sequence 507, App |
| 194 | 37 | 64.9 | 636 | 4 | US-10-140-923-507 | Sequence 507, App |
| 195 | 37 | 64.9 | 636 | 4 | US-10-141-756-507 | Sequence 507, App |
| 196 | 37 | 64.9 | 636 | 4 | US-10-141-759-507 | Sequence 507, App |
| 197 | 37 | 64.9 | 636 | 4 | US-10-140-805-507 | Sequence 507, App |
| 198 | 37 | 64.9 | 636 | 4 | US-10-140-864-507 | Sequence 507, App |
| 199 | 37 | 64.9 | 678 | 4 | US-10-184-644-427 | Sequence 427, App |
| 200 | 37 | 64.9 | 678 | 4 | US-10-184-634-427 | Sequence 427, App |
| 201 | 37 | 64.9 | 689 | 4 | US-10-123-155-503 | Sequence 503, App |
| 202 | 37 | 64.9 | 689 | 4 | US-10-146-731-503 | Sequence 503, App |
| 203 | 37 | 64.9 | 689 | 4 | US-10-140-472-503 | Sequence 503, App |
| 204 | 37 | 64.9 | 689 | 4 | US-10-141-761-503 | Sequence 503, App |
| 205 | 37 | 64.9 | 689 | 4 | US-10-142-885-503 | Sequence 503, App |
| 206 | 37 | 64.9 | 689 | 4 | US-10-158-790-503 | Sequence 503, App |
| 207 | 37 | 64.9 | 689 | 4 | US-10-137-871-503 | Sequence 503, App |
| 208 | 37 | 64.9 | 689 | 4 | US-10-140-923-503 | Sequence 503, App |
| 209 | 37 | 64.9 | 689 | 4 | US-10-141-756-503 | Sequence 503, App |
| 210 | 37 | 64.9 | 689 | 4 | US-10-141-759-503 | Sequence 503, App |
| 211 | 37 | 64.9 | 689 | 4 | US-10-140-805-503 | Sequence 503, App |
| 212 | 37 | 64.9 | 689 | 4 | US-10-140-864-503 | Sequence 503, App |
| 213 | 37 | 64.9 | 695 | 4 | US-10-184-644-567 | Sequence 567, App |
| 214 | 37 | 64.9 | 695 | 4 | US-10-184-634-567 | Sequence 567, App |
| 215 | 37 | 64.9 | 702 | 4 | US-10-123-155-193 | Sequence 193, App |
| 216 | 37 | 64.9 | 702 | 4 | US-10-146-731-193 | Sequence 193, App |
| 217 | 37 | 64.9 | 702 | 4 | US-10-140-472-193 | Sequence 193, App |
| 218 | 37 | 64.9 | 702 | 4 | US-10-141-761-193 | Sequence 193, App |
| 219 | 37 | 64.9 | 702 | 4 | US-10-142-885-193 | Sequence 193, App |
| 220 | 37 | 64.9 | 702 | 4 | US-10-158-790-193 | Sequence 193, App |
| 221 | 37 | 64.9 | 702 | 4 | US-10-137-871-193 | Sequence 193, App |
| 222 | 37 | 64.9 | 702 | 4 | US-10-140-923-193 | Sequence 193, App |
| 223 | 37 | 64.9 | 702 | 4 | US-10-141-756-193 | Sequence 193, App |
| 224 | 37 | 64.9 | 702 | 4 | US-10-141-759-193 | Sequence 193, App |
| 225 | 37 | 64.9 | 702 | 4 | US-10-140-805-193 | Sequence 193, App |
| 226 | 37 | 64.9 | 702 | 4 | US-10-140-864-193 | Sequence 193, App |
| 227 | 37 | 64.9 | 720 | 3 | US-09-756-071B-20 | Sequence 20, Appl |
| 228 | 37 | 64.9 | 720 | 5 | US-10-870-882A-20 | Sequence 20, Appl |
| 229 | 37 | 64.9 | 738 | 5 | US-10-506-925-1 | Sequence 1, Appli |
| 230 | 37 | 64.9 | 738 | 5 | US-10-506-925-2 | Sequence 2, Appli |
| 231 | 37 | 64.9 | 756 | 4 | US-10-184-644-125 | Sequence 125, App |
| 232 | 37 | 64.9 | 756 | 4 | US-10-184-634-125 | Sequence 125, App |
| 233 | 37 | 64.9 | 762 | 4 | US-10-123-155-237 | Sequence 237, App |
| 234 | 37 | 64.9 | 762 | 4 | US-10-146-731-237 | Sequence 237, App |
| 235 | 37 | 64.9 | 762 | 4 | US-10-140-472-237 | Sequence 237, App |
| 236 | 37 | 64.9 | 762 | 4 | US-10-141-761-237 | Sequence 237, App |
| 237 | 37 | 64.9 | 762 | 4 | US-10-142-885-237 | Sequence 237, App |
| 238 | 37 | 64.9 | 762 | 4 | US-10-158-790-237 | Sequence 237, App |
| 239 | 37 | 64.9 | 762 | 4 | US-10-137-871-237 | Sequence 237, App |
| 240 | 37 | 64.9 | 762 | 4 | US-10-140-923-237 | Sequence 237, App |
| 241 | 37 | 64.9 | 762 | 4 | US-10-141-756-237 | Sequence 237, App |
| 242 | 37 | 64.9 | 762 | 4 | US-10-141-759-237 | Sequence 237, App |
| 243 | 37 | 64.9 | 762 | 4 | US-10-140-805-237 | Sequence 237, App |
| 244 | 37 | 64.9 | 762 | 4 | US-10-140-864-237 | Sequence 237, App |
| 245 | 37 | 64.9 | 824 | 4 | US-10-184-644-563 | Sequence 563, App |
| 246 | 37 | 64.9 | 824 | 4 | US-10-184-634-563 | Sequence 563, App |

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| 247 | 37 | 64.9 | 845 | 4 | US-10-184-644-501 | Sequence 501, App |
| 248 | 37 | 64.9 | 845 | 4 | US-10-184-634-501 | Sequence 501, App |
| 249 | 37 | 64.9 | 859 | 4 | US-10-184-644-423 | Sequence 423, App |
| 250 | 37 | 64.9 | 859 | 4 | US-10-184-634-423 | Sequence 423, App |
| 251 | 37 | 64.9 | 899 | 4 | US-10-184-644-499 | Sequence 499, App |
| 252 | 37 | 64.9 | 899 | 4 | US-10-184-634-499 | Sequence 499, App |
| 253 | 37 | 64.9 | 906 | 4 | US-10-184-644-541 | Sequence 541, App |
| 254 | 37 | 64.9 | 906 | 4 | US-10-184-634-541 | Sequence 541, App |
| 255 | 37 | 64.9 | 950 | 4 | US-10-123-155-407 | Sequence 407, App |
| 256 | 37 | 64.9 | 950 | 4 | US-10-146-731-407 | Sequence 407, App |
| 257 | 37 | 64.9 | 950 | 4 | US-10-140-472-407 | Sequence 407, App |
| 258 | 37 | 64.9 | 950 | 4 | US-10-141-761-407 | Sequence 407, App |
| 259 | 37 | 64.9 | 950 | 4 | US-10-142-885-407 | Sequence 407, App |
| 260 | 37 | 64.9 | 950 | 4 | US-10-158-790-407 | Sequence 407, App |
| 261 | 37 | 64.9 | 950 | 4 | US-10-137-871-407 | Sequence 407, App |
| 262 | 37 | 64.9 | 950 | 4 | US-10-140-923-407 | Sequence 407, App |
| 263 | 37 | 64.9 | 950 | 4 | US-10-141-756-407 | Sequence 407, App |
| 264 | 37 | 64.9 | 950 | 4 | US-10-141-759-407 | Sequence 407, App |
| 265 | 37 | 64.9 | 950 | 4 | US-10-140-805-407 | Sequence 407, App |
| 266 | 37 | 64.9 | 950 | 4 | US-10-140-864-407 | Sequence 407, App |
| 267 | 37 | 64.9 | 959 | 4 | US-10-123-155-177 | Sequence 177, App |
| 268 | 37 | 64.9 | 959 | 4 | US-10-146-731-177 | Sequence 177, App |
| 269 | 37 | 64.9 | 959 | 4 | US-10-140-472-177 | Sequence 177, App |
| 270 | 37 | 64.9 | 959 | 4 | US-10-141-761-177 | Sequence 177, App |
| 271 | 37 | 64.9 | 959 | 4 | US-10-142-885-177 | Sequence 177, App |
| 272 | 37 | 64.9 | 959 | 4 | US-10-158-790-177 | Sequence 177, App |
| 273 | 37 | 64.9 | 959 | 4 | US-10-137-871-177 | Sequence 177, App |
| 274 | 37 | 64.9 | 959 | 4 | US-10-140-923-177 | Sequence 177, App |
| 275 | 37 | 64.9 | 959 | 4 | US-10-141-756-177 | Sequence 177, App |
| 276 | 37 | 64.9 | 959 | 4 | US-10-141-759-177 | Sequence 177, App |
| 277 | 37 | 64.9 | 959 | 4 | US-10-140-805-177 | Sequence 177, App |
| 278 | 37 | 64.9 | 959 | 4 | US-10-140-864-177 | Sequence 177, App |
| 279 | 37 | 64.9 | 963 | 4 | US-10-123-155-521 | Sequence 521, App |
| 280 | 37 | 64.9 | 963 | 4 | US-10-146-731-521 | Sequence 521, App |
| 281 | 37 | 64.9 | 963 | 4 | US-10-140-472-521 | Sequence 521, App |
| 282 | 37 | 64.9 | 963 | 4 | US-10-141-761-521 | Sequence 521, App |
| 283 | 37 | 64.9 | 963 | 4 | US-10-142-885-521 | Sequence 521, App |
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| 285 | 37 | 64.9 | 963 | 4 | US-10-137-871-521 | Sequence 521, App |
| 286 | 37 | 64.9 | 963 | 4 | US-10-140-923-521 | Sequence 521, App |
| 287 | 37 | 64.9 | 963 | 4 | US-10-141-756-521 | Sequence 521, App |
| 288 | 37 | 64.9 | 963 | 4 | US-10-141-759-521 | Sequence 521, App |
| 289 | 37 | 64.9 | 963 | 4 | US-10-140-805-521 | Sequence 521, App |
| 290 | 37 | 64.9 | 963 | 4 | US-10-140-864-521 | Sequence 521, App |
| 291 | 37 | 64.9 | 971 | 4 | US-10-184-644-85 | Sequence 85, Appl |
| 292 | 37 | 64.9 | 971 | 4 | US-10-184-634-85 | Sequence 85, Appl |
| 293 | 37 | 64.9 | 1002 | 4 | US-10-434-906-4 | Sequence 4, Appli |
| 294 | 37 | 64.9 | 1024 | 4 | US-10-123-155-315 | Sequence 315, App |
| 295 | 37 | 64.9 | 1024 | 4 | US-10-146-731-315 | Sequence 315, App |
| 296 | 37 | 64.9 | 1024 | 4 | US-10-140-472-315 | Sequence 315, App |
| 297 | 37 | 64.9 | 1024 | 4 | US-10-141-761-315 | Sequence 315, App |
| 298 | 37 | 64.9 | 1024 | 4 | US-10-142-885-315 | Sequence 315, App |
| 299 | 37 | 64.9 | 1024 | 4 | US-10-158-790-315 | Sequence 315, App |
| 300 | 37 | 64.9 | 1024 | 4 | US-10-137-871-315 | Sequence 315, App |
| 301 | 37 | 64.9 | 1024 | 4 | US-10-140-923-315 | Sequence 315, App |
| 302 | 37 | 64.9 | 1024 | 4 | US-10-141-756-315 | Sequence 315, App |
| 303 | 37 | 64.9 | 1024 | 4 | US-10-141-759-315 | Sequence 315, App |
| 304 | 37 | 64.9 | 1024 | 4 | US-10-140-805-315 | Sequence 315, App |
| 305 | 37 | 64.9 | 1024 | 4 | US-10-140-864-315 | Sequence 315, App |
| 306 | 37 | 64.9 | 1071 | 6 | US-11-060-291-6 | Sequence 6, Appli |
| 307 | 37 | 64.9 | 1073 | 4 | US-10-184-644-305 | Sequence 305, App |
| 308 | 37 | 64.9 | 1073 | 4 | US-10-184-634-305 | Sequence 305, App |
| 309 | 37 | 64.9 | 1073 | 4 | US-10-063-685-95 | Sequence 95, Appl |
| 310 | 37 | 64.9 | 1076 | 4 | US-10-184-644-191 | Sequence 191, App |
| 311 | 37 | 64.9 | 1076 | 4 | US-10-184-634-191 | Sequence 191, App |
| 312 | 37 | 64.9 | 1076 | 4 | US-10-063-685-45 | Sequence 45, Appl |
| 313 | 37 | 64.9 | 1090 | 3 | US-09-759-130B-134 | Sequence 134, App |
| 314 | 37 | 64.9 | 1090 | 4 | US-10-741-790-134 | Sequence 134, App |
| 315 | 37 | 64.9 | 1098 | 4 | US-10-184-644-605 | Sequence 605, App |
| 316 | 37 | 64.9 | 1098 | 4 | US-10-184-634-605 | Sequence 605, App |
| 317 | 37 | 64.9 | 1102 | 4 | US-10-123-155-299 | Sequence 299, App |
| 318 | 37 | 64.9 | 1102 | 4 | US-10-146-731-299 | Sequence 299, App |
| 319 | 37 | 64.9 | 1102 | 4 | US-10-140-472-299 | Sequence 299, App |
| 320 | 37 | 64.9 | 1102 | 4 | US-10-141-761-299 | Sequence 299, App |
| 321 | 37 | 64.9 | 1102 | 4 | US-10-142-885-299 | Sequence 299, App |
| 322 | 37 | 64.9 | 1102 | 4 | US-10-158-790-299 | Sequence 299, App |
| 323 | 37 | 64.9 | 1102 | 4 | US-10-137-871-299 | Sequence 299, App |
| 324 | 37 | 64.9 | 1102 | 4 | US-10-140-923-299 | Sequence 299, App |
| 325 | 37 | 64.9 | 1102 | 4 | US-10-141-756-299 | Sequence 299, App |
| 326 | 37 | 64.9 | 1102 | 4 | US-10-141-759-299 | Sequence 299, App |
| 327 | 37 | 64.9 | 1102 | 4 | US-10-140-805-299 | Sequence 299, App |
| 328 | 37 | 64.9 | 1102 | 4 | US-10-140-864-299 | Sequence 299, App |
| 329 | 37 | 64.9 | 1113 | 4 | US-10-123-155-109 | Sequence 109, App |
| 330 | 37 | 64.9 | 1113 | 4 | US-10-146-731-109 | Sequence 109, App |
| 331 | 37 | 64.9 | 1113 | 4 | US-10-140-472-109 | Sequence 109, App |
| 332 | 37 | 64.9 | 1113 | 4 | US-10-141-761-109 | Sequence 109, App |
| 333 | 37 | 64.9 | 1113 | 4 | US-10-142-885-109 | Sequence 109, App |
| 334 | 37 | 64.9 | 1113 | 4 | US-10-158-790-109 | Sequence 109, App |
| 335 | 37 | 64.9 | 1113 | 4 | US-10-137-871-109 | Sequence 109, App |
| 336 | 37 | 64.9 | 1113 | 4 | US-10-140-923-109 | Sequence 109, App |
| 337 | 37 | 64.9 | 1113 | 4 | US-10-141-756-109 | Sequence 109, App |
| 338 | 37 | 64.9 | 1113 | 4 | US-10-141-759-109 | Sequence 109, App |
| 339 | 37 | 64.9 | 1113 | 4 | US-10-140-805-109 | Sequence 109, App |
| 340 | 37 | 64.9 | 1113 | 4 | US-10-140-864-109 | Sequence 109, App |
| 341 | 37 | 64.9 | 1150 | 4 | US-10-184-644-519 | Sequence 519, App |
| 342 | 37 | 64.9 | 1150 | 4 | US-10-184-634-519 | Sequence 519, App |
| 343 | 37 | 64.9 | 1158 | 4 | US-10-184-644-437 | Sequence 437, App |
| 344 | 37 | 64.9 | 1158 | 4 | US-10-184-634-437 | Sequence 437, App |
| 345 | 37 | 64.9 | 1162 | 4 | US-10-123-155-185 | Sequence 185, App |
| 346 | 37 | 64.9 | 1162 | 4 | US-10-146-731-185 | Sequence 185, App |
| 347 | 37 | 64.9 | 1162 | 4 | US-10-140-472-185 | Sequence 185, App |
| 348 | 37 | 64.9 | 1162 | 4 | US-10-141-761-185 | Sequence 185, App |
| 349 | 37 | 64.9 | 1162 | 4 | US-10-142-885-185 | Sequence 185, App |
| 350 | 37 | 64.9 | 1162 | 4 | US-10-158-790-185 | Sequence 185, App |
| 351 | 37 | 64.9 | 1162 | 4 | US-10-137-871-185 | Sequence 185, App |
| 352 | 37 | 64.9 | 1162 | 4 | US-10-140-923-185 | Sequence 185, App |
| 353 | 37 | 64.9 | 1162 | 4 | US-10-141-756-185 | Sequence 185, App |
| 354 | 37 | 64.9 | 1162 | 4 | US-10-141-759-185 | Sequence 185, App |
| 355 | 37 | 64.9 | 1162 | 4 | US-10-140-805-185 | Sequence 185, App |
| 356 | 37 | 64.9 | 1162 | 4 | US-10-140-864-185 | Sequence 185, App |
| 357 | 37 | 64.9 | 1172 | 4 | US-10-184-644-209 | Sequence 209, App |
| 358 | 37 | 64.9 | 1172 | 4 | US-10-184-634-209 | Sequence 209, App |
| 359 | 37 | 64.9 | 1177 | 4 | US-10-184-644-381 | Sequence 381, App |
| 360 | 37 | 64.9 | 1177 | 4 | US-10-184-634-381 | Sequence 381, App |
| 361 | 37 | 64.9 | 1177 | 4 | US-10-063-685-129 | Sequence 129, App |
| 362 | 37 | 64.9 | 1200 | 5 | US-10-702-578-18 | Sequence 18, Appl |
| 363 | 37 | 64.9 | 1220 | 4 | US-10-184-644-557 | Sequence 557, App |
| 364 | 37 | 64.9 | 1220 | 4 | US-10-184-634-557 | Sequence 557, App |
| 365 | 37 | 64.9 | 1245 | 4 | US-10-184-644-223 | Sequence 223, App |
| 366 | 37 | 64.9 | 1245 | 4 | US-10-184-634-223 | Sequence 223, App |
| 367 | 37 | 64.9 | 1248 | 4 | US-10-184-644-587 | Sequence 587, App |
| 368 | 37 | 64.9 | 1248 | 4 | US-10-184-634-587 | Sequence 587, App |
| 369 | 37 | 64.9 | 1252 | 4 | US-10-123-155-341 | Sequence 341, App |
| 370 | 37 | 64.9 | 1252 | 4 | US-10-146-731-341 | Sequence 341, App |
| 371 | 37 | 64.9 | 1252 | 4 | US-10-140-472-341 | Sequence 341, App |
| 372 | 37 | 64.9 | 1252 | 4 | US-10-141-761-341 | Sequence 341, App |
| 373 | 37 | 64.9 | 1252 | 4 | US-10-142-885-341 | Sequence 341, App |
| 374 | 37 | 64.9 | 1252 | 4 | US-10-158-790-341 | Sequence 341, App |
| 375 | 37 | 64.9 | 1252 | 4 | US-10-137-871-341 | Sequence 341, App |
| 376 | 37 | 64.9 | 1252 | 4 | US-10-140-923-341 | Sequence 341, App |
| 377 | 37 | 64.9 | 1252 | 4 | US-10-141-756-341 | Sequence 341, App |
| 378 | 37 | 64.9 | 1252 | 4 | US-10-141-759-341 | Sequence 341, App |
| 379 | 37 | 64.9 | 1252 | 4 | US-10-140-805-341 | Sequence 341, App |
| 380 | 37 | 64.9 | 1252 | 4 | US-10-140-864-341 | Sequence 341, App |
| 381 | 37 | 64.9 | 1258 | 4 | US-10-712-124-48 | Sequence 48, Appl |
| 382 | 37 | 64.9 | 1266 | 4 | US-10-123-155-319 | Sequence 319, App |
| 383 | 37 | 64.9 | 1266 | 4 | US-10-146-731-319 | Sequence 319, App |
| 384 | 37 | 64.9 | 1266 | 4 | US-10-140-472-319 | Sequence 319, App |
| 385 | 37 | 64.9 | 1266 | 4 | US-10-141-761-319 | Sequence 319, App |
| 386 | 37 | 64.9 | 1266 | 4 | US-10-142-885-319 | Sequence 319, App |
| 387 | 37 | 64.9 | 1266 | 4 | US-10-158-790-319 | Sequence 319, App |
| 388 | 37 | 64.9 | 1266 | 4 | US-10-137-871-319 | Sequence 319, App |
| 389 | 37 | 64.9 | 1266 | 4 | US-10-140-923-319 | Sequence 319, App |
| 390 | 37 | 64.9 | 1266 | 4 | US-10-141-756-319 | Sequence 319, App |
| 391 | 37 | 64.9 | 1266 | 4 | US-10-141-759-319 | Sequence 319, App |
| 392 | 37 | 64.9 | 1266 | 4 | US-10-140-805-319 | Sequence 319, App |

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| 394 | 37 | 64.9 | 1281 | 4 | US-10-123-155-471 | Sequence 471, App |
| 395 | 37 | 64.9 | 1281 | 4 | US-10-146-731-471 | Sequence 471, App |
| 396 | 37 | 64.9 | 1281 | 4 | US-10-140-472-471 | Sequence 471, App |
| 397 | 37 | 64.9 | 1281 | 4 | US-10-141-761-471 | Sequence 471, App |
| 398 | 37 | 64.9 | 1281 | 4 | US-10-142-885-471 | Sequence 471, App |
| 399 | 37 | 64.9 | 1281 | 4 | US-10-158-790-471 | Sequence 471, App |
| 400 | 37 | 64.9 | 1281 | 4 | US-10-137-871-471 | Sequence 471, App |
| 401 | 37 | 64.9 | 1281 | 4 | US-10-140-923-471 | Sequence 471, App |
| 402 | 37 | 64.9 | 1281 | 4 | US-10-141-756-471 | Sequence 471, App |
| 403 | 37 | 64.9 | 1281 | 4 | US-10-141-759-471 | Sequence 471, App |
| 404 | 37 | 64.9 | 1281 | 4 | US-10-140-805-471 | Sequence 471, App |
| 405 | 37 | 64.9 | 1281 | 4 | US-10-140-864-471 | Sequence 471, App |
| 406 | 37 | 64.9 | 1302 | 3 | US-09-935-384-764 | Sequence 764, App |
| 407 | 37 | 64.9 | 1312 | 4 | US-10-123-155-397 | Sequence 397, App |
| 408 | 37 | 64.9 | 1312 | 4 | US-10-146-731-397 | Sequence 397, App |
| 409 | 37 | 64.9 | 1312 | 4 | US-10-140-472-397 | Sequence 397, App |
| 410 | 37 | 64.9 | 1312 | 4 | US-10-141-761-397 | Sequence 397, App |
| 411 | 37 | 64.9 | 1312 | 4 | US-10-142-885-397 | Sequence 397, App |
| 412 | 37 | 64.9 | 1312 | 4 | US-10-158-790-397 | Sequence 397, App |
| 413 | 37 | 64.9 | 1312 | 4 | US-10-137-871-397 | Sequence 397, App |
| 414 | 37 | 64.9 | 1312 | 4 | US-10-140-923-397 | Sequence 397, App |
| 415 | 37 | 64.9 | 1312 | 4 | US-10-141-756-397 | Sequence 397, App |
| 416 | 37 | 64.9 | 1312 | 4 | US-10-141-759-397 | Sequence 397, App |
| 417 | 37 | 64.9 | 1312 | 4 | US-10-140-805-397 | Sequence 397, App |
| 418 | 37 | 64.9 | 1312 | 4 | US-10-140-864-397 | Sequence 397, App |
| 419 | 37 | 64.9 | 1337 | 4 | US-10-184-644-215 | Sequence 215, App |
| 420 | 37 | 64.9 | 1337 | 4 | US-10-184-634-215 | Sequence 215, App |
| 421 | 37 | 64.9 | 1342 | 4 | US-10-184-644-469 | Sequence 469, App |
| 422 | 37 | 64.9 | 1342 | 4 | US-10-184-634-469 | Sequence 469, App |
| 423 | 37 | 64.9 | 1346 | 4 | US-10-123-155-481 | Sequence 481, App |
| 424 | 37 | 64.9 | 1346 | 4 | US-10-146-731-481 | Sequence 481, App |
| 425 | 37 | 64.9 | 1346 | 4 | US-10-140-472-481 | Sequence 481, App |
| 426 | 37 | 64.9 | 1346 | 4 | US-10-141-761-481 | Sequence 481, App |
| 427 | 37 | 64.9 | 1346 | 4 | US-10-142-885-481 | Sequence 481, App |
| 428 | 37 | 64.9 | 1346 | 4 | US-10-158-790-481 | Sequence 481, App |
| 429 | 37 | 64.9 | 1346 | 4 | US-10-137-871-481 | Sequence 481, App |
| 430 | 37 | 64.9 | 1346 | 4 | US-10-140-923-481 | Sequence 481, App |
| 431 | 37 | 64.9 | 1346 | 4 | US-10-141-756-481 | Sequence 481, App |
| 432 | 37 | 64.9 | 1346 | 4 | US-10-141-759-481 | Sequence 481, App |
| 433 | 37 | 64.9 | 1346 | 4 | US-10-140-805-481 | Sequence 481, App |
| 434 | 37 | 64.9 | 1346 | 4 | US-10-140-864-481 | Sequence 481, App |
| 435 | 37 | 64.9 | 1356 | 4 | US-10-123-155-43 | Sequence 43, Appl |
| 436 | 37 | 64.9 | 1356 | 4 | US-10-146-731-43 | Sequence 43, Appl |
| 437 | 37 | 64.9 | 1356 | 4 | US-10-140-472-43 | Sequence 43, Appl |
| 438 | 37 | 64.9 | 1356 | 4 | US-10-141-761-43 | Sequence 43, Appl |
| 439 | 37 | 64.9 | 1356 | 4 | US-10-142-885-43 | Sequence 43, Appl |
| 440 | 37 | 64.9 | 1356 | 4 | US-10-158-790-43 | Sequence 43, Appl |
| 441 | 37 | 64.9 | 1356 | 4 | US-10-137-871-43 | Sequence 43, Appl |
| 442 | 37 | 64.9 | 1356 | 4 | US-10-140-923-43 | Sequence 43, Appl |
| 443 | 37 | 64.9 | 1356 | 4 | US-10-141-756-43 | Sequence 43, Appl |
| 444 | 37 | 64.9 | 1356 | 4 | US-10-141-759-43 | Sequence 43, Appl |
| 445 | 37 | 64.9 | 1356 | 4 | US-10-140-805-43 | Sequence 43, Appl |
| 446 | 37 | 64.9 | 1356 | 4 | US-10-140-864-43 | Sequence 43, Appl |
| 447 | 37 | 64.9 | 1362 | 4 | US-10-719-642-22 | Sequence 22, Appl |
| 448 | 37 | 64.9 | 1377 | 4 | US-10-123-155-361 | Sequence 361, App |
| 449 | 37 | 64.9 | 1377 | 4 | US-10-146-731-361 | Sequence 361, App |
| 450 | 37 | 64.9 | 1377 | 4 | US-10-140-472-361 | Sequence 361, App |
| 451 | 37 | 64.9 | 1377 | 4 | US-10-141-761-361 | Sequence 361, App |
| 452 | 37 | 64.9 | 1377 | 4 | US-10-142-885-361 | Sequence 361, App |
| 453 | 37 | 64.9 | 1377 | 4 | US-10-158-790-361 | Sequence 361, App |
| 454 | 37 | 64.9 | 1377 | 4 | US-10-137-871-361 | Sequence 361, App |
| 455 | 37 | 64.9 | 1377 | 4 | US-10-140-923-361 | Sequence 361, App |
| 456 | 37 | 64.9 | 1377 | 4 | US-10-141-756-361 | Sequence 361, App |
| 457 | 37 | 64.9 | 1377 | 4 | US-10-141-759-361 | Sequence 361, App |
| 458 | 37 | 64.9 | 1377 | 4 | US-10-140-805-361 | Sequence 361, App |
| 459 | 37 | 64.9 | 1377 | 4 | US-10-140-864-361 | Sequence 361, App |
| 460 | 37 | 64.9 | 1395 | 4 | US-10-123-155-3 | Sequence 3, Appli |
| 461 | 37 | 64.9 | 1395 | 4 | US-10-146-731-3 | Sequence 3, Appli |
| 462 | 37 | 64.9 | 1395 | 4 | US-10-140-472-3 | Sequence 3, Appli |
| 463 | 37 | 64.9 | 1395 | 4 | US-10-141-761-3 | Sequence 3, Appli |
| 464 | 37 | 64.9 | 1395 | 4 | US-10-142-885-3 | Sequence 3, Appli |
| 465 | 37 | 64.9 | 1395 | 4 | US-10-158-790-3 | Sequence 3, Appli |
| 466 | 37 | 64.9 | 1395 | 4 | US-10-063-685-9 | Sequence 9, Appli |
| 467 | 37 | 64.9 | 1395 | 4 | US-10-137-871-3 | Sequence 3, Appli |
| 468 | 37 | 64.9 | 1395 | 4 | US-10-140-923-3 | Sequence 3, Appli |
| 469 | 37 | 64.9 | 1395 | 4 | US-10-141-756-3 | Sequence 3, Appli |
| 470 | 37 | 64.9 | 1395 | 4 | US-10-141-759-3 | Sequence 3, Appli |
| 471 | 37 | 64.9 | 1395 | 4 | US-10-140-805-3 | Sequence 3, Appli |
| 472 | 37 | 64.9 | 1395 | 4 | US-10-140-864-3 | Sequence 3, Appli |
| 473 | 37 | 64.9 | 1399 | 4 | US-10-184-644-11 | Sequence 11, Appl |
| 474 | 37 | 64.9 | 1399 | 4 | US-10-184-634-11 | Sequence 11, Appl |
| 475 | 37 | 64.9 | 1415 | 4 | US-10-123-155-469 | Sequence 469, App |
| 476 | 37 | 64.9 | 1415 | 4 | US-10-146-731-469 | Sequence 469, App |
| 477 | 37 | 64.9 | 1415 | 4 | US-10-140-472-469 | Sequence 469, App |
| 478 | 37 | 64.9 | 1415 | 4 | US-10-141-761-469 | Sequence 469, App |
| 479 | 37 | 64.9 | 1415 | 4 | US-10-142-885-469 | Sequence 469, App |
| 480 | 37 | 64.9 | 1415 | 4 | US-10-158-790-469 | Sequence 469, App |
| 481 | 37 | 64.9 | 1415 | 4 | US-10-137-871-469 | Sequence 469, App |
| 482 | 37 | 64.9 | 1415 | 4 | US-10-140-923-469 | Sequence 469, App |
| 483 | 37 | 64.9 | 1415 | 4 | US-10-141-756-469 | Sequence 469, App |
| 484 | 37 | 64.9 | 1415 | 4 | US-10-141-759-469 | Sequence 469, App |
| 485 | 37 | 64.9 | 1415 | 4 | US-10-140-805-469 | Sequence 469, App |
| 486 | 37 | 64.9 | 1415 | 4 | US-10-140-864-469 | Sequence 469, App |
| 487 | 37 | 64.9 | 1422 | 4 | US-10-123-155-117 | Sequence 117, App |
| 488 | 37 | 64.9 | 1422 | 4 | US-10-146-731-117 | Sequence 117, App |
| 489 | 37 | 64.9 | 1422 | 4 | US-10-140-472-117 | Sequence 117, App |
| 490 | 37 | 64.9 | 1422 | 4 | US-10-141-761-117 | Sequence 117, App |
| 491 | 37 | 64.9 | 1422 | 4 | US-10-142-885-117 | Sequence 117, App |
| 492 | 37 | 64.9 | 1422 | 4 | US-10-158-790-117 | Sequence 117, App |
| 493 | 37 | 64.9 | 1422 | 4 | US-10-137-871-117 | Sequence 117, App |
| 494 | 37 | 64.9 | 1422 | 4 | US-10-140-923-117 | Sequence 117, App |
| 495 | 37 | 64.9 | 1422 | 4 | US-10-141-756-117 | Sequence 117, App |
| 496 | 37 | 64.9 | 1422 | 4 | US-10-141-759-117 | Sequence 117, App |
| 497 | 37 | 64.9 | 1422 | 4 | US-10-140-805-117 | Sequence 117, App |
| 498 | 37 | 64.9 | 1422 | 4 | US-10-140-864-117 | Sequence 117, App |
| 499 | 37 | 64.9 | 1429 | 4 | US-10-123-155-485 | Sequence 485, App |
| 500 | 37 | 64.9 | 1429 | 4 | US-10-146-731-485 | Sequence 485, App |
| 501 | 37 | 64.9 | 1429 | 4 | US-10-140-472-485 | Sequence 485, App |
| 502 | 37 | 64.9 | 1429 | 4 | US-10-141-761-485 | Sequence 485, App |
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| 504 | 37 | 64.9 | 1429 | 4 | US-10-158-790-485 | Sequence 485, App |
| 505 | 37 | 64.9 | 1429 | 4 | US-10-137-871-485 | Sequence 485, App |
| 506 | 37 | 64.9 | 1429 | 4 | US-10-140-923-485 | Sequence 485, App |
| 507 | 37 | 64.9 | 1429 | 4 | US-10-141-756-485 | Sequence 485, App |
| 508 | 37 | 64.9 | 1429 | 4 | US-10-141-759-485 | Sequence 485, App |
| 509 | 37 | 64.9 | 1429 | 4 | US-10-140-805-485 | Sequence 485, App |
| 510 | 37 | 64.9 | 1429 | 4 | US-10-140-864-485 | Sequence 485, App |
| 511 | 37 | 64.9 | 1440 | 4 | US-10-155-567-3 | Sequence 3, Appli |
| 512 | 37 | 64.9 | 1461 | 4 | US-10-142-231-86 | Sequence 86, Appl |
| 513 | 37 | 64.9 | 1461 | 4 | US-10-356-153-86 | Sequence 86, Appl |
| 514 | 37 | 64.9 | 1461 | 5 | US-10-884-115-86 | Sequence 86, Appl |
| 515 | 37 | 64.9 | 1475 | 4 | US-10-123-155-491 | Sequence 491, App |
| 516 | 37 | 64.9 | 1475 | 4 | US-10-146-731-491 | Sequence 491, App |
| 517 | 37 | 64.9 | 1475 | 4 | US-10-140-472-491 | Sequence 491, App |
| 518 | 37 | 64.9 | 1475 | 4 | US-10-141-761-491 | Sequence 491, App |
| 519 | 37 | 64.9 | 1475 | 4 | US-10-142-885-491 | Sequence 491, App |
| 520 | 37 | 64.9 | 1475 | 4 | US-10-158-790-491 | Sequence 491, App |
| 521 | 37 | 64.9 | 1475 | 4 | US-10-063-685-79 | Sequence 79, Appl |
| 522 | 37 | 64.9 | 1475 | 4 | US-10-137-871-491 | Sequence 491, App |
| 523 | 37 | 64.9 | 1475 | 4 | US-10-140-923-491 | Sequence 491, App |
| 524 | 37 | 64.9 | 1475 | 4 | US-10-141-756-491 | Sequence 491, App |
| 525 | 37 | 64.9 | 1475 | 4 | US-10-141-759-491 | Sequence 491, App |
| 526 | 37 | 64.9 | 1475 | 4 | US-10-140-805-491 | Sequence 491, App |
| 527 | 37 | 64.9 | 1475 | 4 | US-10-140-864-491 | Sequence 491, App |
| 528 | 37 | 64.9 | 1486 | 4 | US-10-184-644-153 | Sequence 153, App |
| 529 | 37 | 64.9 | 1486 | 4 | US-10-184-634-153 | Sequence 153, App |
| 530 | 37 | 64.9 | 1505 | 4 | US-10-184-644-377 | Sequence 377, App |
| 531 | 37 | 64.9 | 1505 | 4 | US-10-184-634-377 | Sequence 377, App |
| 532 | 37 | 64.9 | 1505 | 4 | US-10-063-685-127 | Sequence 127, App |
| 533 | 37 | 64.9 | 1510 | 4 | US-10-123-155-399 | Sequence 399, App |
| 534 | 37 | 64.9 | 1510 | 4 | US-10-146-731-399 | Sequence 399, App |
| 535 | 37 | 64.9 | 1510 | 4 | US-10-140-472-399 | Sequence 399, App |
| 536 | 37 | 64.9 | 1510 | 4 | US-10-141-761-399 | Sequence 399, App |
| 537 | 37 | 64.9 | 1510 | 4 | US-10-142-885-399 | Sequence 399, App |
| 538 | 37 | 64.9 | 1510 | 4 | US-10-158-790-399 | Sequence 399, App |

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| 539 | 37 | 64.9 | 1510 | 4 | US-10-137-871-399 | Sequence 399, App |
| 540 | 37 | 64.9 | 1510 | 4 | US-10-140-923-399 | Sequence 399, App |
| 541 | 37 | 64.9 | 1510 | 4 | US-10-141-756-399 | Sequence 399, App |
| 542 | 37 | 64.9 | 1510 | 4 | US-10-141-759-399 | Sequence 399, App |
| 543 | 37 | 64.9 | 1510 | 4 | US-10-140-805-399 | Sequence 399, App |
| 544 | 37 | 64.9 | 1510 | 4 | US-10-140-864-399 | Sequence 399, App |
| 545 | 37 | 64.9 | 1520 | 4 | US-10-123-155-333 | Sequence 333, App |
| 546 | 37 | 64.9 | 1520 | 4 | US-10-146-731-333 | Sequence 333, App |
| 547 | 37 | 64.9 | 1520 | 4 | US-10-140-472-333 | Sequence 333, App |
| 548 | 37 | 64.9 | 1520 | 4 | US-10-141-761-333 | Sequence 333, App |
| 549 | 37 | 64.9 | 1520 | 4 | US-10-142-885-333 | Sequence 333, App |
| 550 | 37 | 64.9 | 1520 | 4 | US-10-158-790-333 | Sequence 333, App |
| 551 | 37 | 64.9 | 1520 | 4 | US-10-137-871-333 | Sequence 333, App |
| 552 | 37 | 64.9 | 1520 | 4 | US-10-140-923-333 | Sequence 333, App |
| 553 | 37 | 64.9 | 1520 | 4 | US-10-141-756-333 | Sequence 333, App |
| 554 | 37 | 64.9 | 1520 | 4 | US-10-141-759-333 | Sequence 333, App |
| 555 | 37 | 64.9 | 1520 | 4 | US-10-140-805-333 | Sequence 333, App |
| 556 | 37 | 64.9 | 1520 | 4 | US-10-140-864-333 | Sequence 333, App |
| 557 | 37 | 64.9 | 1524 | 4 | US-10-184-644-421 | Sequence 421, App |
| 558 | 37 | 64.9 | 1524 | 4 | US-10-184-634-421 | Sequence 421, App |
| 559 | 37 | 64.9 | 1564 | 4 | US-10-184-644-245 | Sequence 245, App |
| 560 | 37 | 64.9 | 1564 | 4 | US-10-184-634-245 | Sequence 245, App |
| 561 | 37 | 64.9 | 1570 | 4 | US-10-184-644-335 | Sequence 335, App |
| 562 | 37 | 64.9 | 1570 | 4 | US-10-184-634-335 | Sequence 335, App |
| 563 | 37 | 64.9 | 1570 | 4 | US-10-123-155-455 | Sequence 455, App |
| 564 | 37 | 64.9 | 1570 | 4 | US-10-146-731-455 | Sequence 455, App |
| 565 | 37 | 64.9 | 1570 | 4 | US-10-140-472-455 | Sequence 455, App |
| 566 | 37 | 64.9 | 1570 | 4 | US-10-141-761-455 | Sequence 455, App |
| 567 | 37 | 64.9 | 1570 | 4 | US-10-142-885-455 | Sequence 455, App |
| 568 | 37 | 64.9 | 1570 | 4 | US-10-158-790-455 | Sequence 455, App |
| 569 | 37 | 64.9 | 1570 | 4 | US-10-137-871-455 | Sequence 455, App |
| 570 | 37 | 64.9 | 1570 | 4 | US-10-140-923-455 | Sequence 455, App |
| 571 | 37 | 64.9 | 1570 | 4 | US-10-141-756-455 | Sequence 455, App |
| 572 | 37 | 64.9 | 1570 | 4 | US-10-141-759-455 | Sequence 455, App |
| 573 | 37 | 64.9 | 1570 | 4 | US-10-140-805-455 | Sequence 455, App |
| 574 | 37 | 64.9 | 1570 | 4 | US-10-140-864-455 | Sequence 455, App |
| 575 | 37 | 64.9 | 1575 | 4 | US-10-123-155-431 | Sequence 431, App |
| 576 | 37 | 64.9 | 1575 | 4 | US-10-146-731-431 | Sequence 431, App |
| 577 | 37 | 64.9 | 1575 | 4 | US-10-140-472-431 | Sequence 431, App |
| 578 | 37 | 64.9 | 1575 | 4 | US-10-141-761-431 | Sequence 431, App |
| 579 | 37 | 64.9 | 1575 | 4 | US-10-142-885-431 | Sequence 431, App |
| 580 | 37 | 64.9 | 1575 | 4 | US-10-158-790-431 | Sequence 431, App |
| 581 | 37 | 64.9 | 1575 | 4 | US-10-137-871-431 | Sequence 431, App |
| 582 | 37 | 64.9 | 1575 | 4 | US-10-140-923-431 | Sequence 431, App |
| 583 | 37 | 64.9 | 1575 | 4 | US-10-141-756-431 | Sequence 431, App |
| 584 | 37 | 64.9 | 1575 | 4 | US-10-141-759-431 | Sequence 431, App |
| 585 | 37 | 64.9 | 1575 | 4 | US-10-140-805-431 | Sequence 431, App |
| 586 | 37 | 64.9 | 1575 | 4 | US-10-140-864-431 | Sequence 431, App |
| 587 | 37 | 64.9 | 1587 | 4 | US-10-123-155-465 | Sequence 465, App |
| 588 | 37 | 64.9 | 1587 | 4 | US-10-146-731-465 | Sequence 465, App |
| 589 | 37 | 64.9 | 1587 | 4 | US-10-140-472-465 | Sequence 465, App |
| 590 | 37 | 64.9 | 1587 | 4 | US-10-141-761-465 | Sequence 465, App |
| 591 | 37 | 64.9 | 1587 | 4 | US-10-142-885-465 | Sequence 465, App |
| 592 | 37 | 64.9 | 1587 | 4 | US-10-158-790-465 | Sequence 465, App |
| 593 | 37 | 64.9 | 1587 | 4 | US-10-137-871-465 | Sequence 465, App |
| 594 | 37 | 64.9 | 1587 | 4 | US-10-140-923-465 | Sequence 465, App |
| 595 | 37 | 64.9 | 1587 | 4 | US-10-141-756-465 | Sequence 465, App |
| 596 | 37 | 64.9 | 1587 | 4 | US-10-141-759-465 | Sequence 465, App |
| 597 | 37 | 64.9 | 1587 | 4 | US-10-140-805-465 | Sequence 465, App |
| 598 | 37 | 64.9 | 1587 | 4 | US-10-140-864-465 | Sequence 465, App |
| 599 | 37 | 64.9 | 1593 | 4 | US-10-371-905A-35 | Sequence 35, Appl |
| 600 | 37 | 64.9 | 1621 | 4 | US-10-184-644-145 | Sequence 145, App |
| 601 | 37 | 64.9 | 1621 | 4 | US-10-184-634-145 | Sequence 145, App |
| 602 | 37 | 64.9 | 1630 | 4 | US-10-123-155-519 | Sequence 519, App |
| 603 | 37 | 64.9 | 1630 | 4 | US-10-146-731-519 | Sequence 519, App |
| 604 | 37 | 64.9 | 1630 | 4 | US-10-140-472-519 | Sequence 519, App |
| 605 | 37 | 64.9 | 1630 | 4 | US-10-141-761-519 | Sequence 519, App |
| 606 | 37 | 64.9 | 1630 | 4 | US-10-142-885-519 | Sequence 519, App |
| 607 | 37 | 64.9 | 1630 | 4 | US-10-158-790-519 | Sequence 519, App |
| 608 | 37 | 64.9 | 1630 | 4 | US-10-137-871-519 | Sequence 519, App |
| 609 | 37 | 64.9 | 1630 | 4 | US-10-140-923-519 | Sequence 519, App |
| 610 | 37 | 64.9 | 1630 | 4 | US-10-141-756-519 | Sequence 519, App |
| 611 | 37 | 64.9 | 1630 | 4 | US-10-141-759-519 | Sequence 519, App |
| 612 | 37 | 64.9 | 1630 | 4 | US-10-140-805-519 | Sequence 519, App |
| 613 | 37 | 64.9 | 1630 | 4 | US-10-140-864-519 | Sequence 519, App |
| 614 | 37 | 64.9 | 1648 | 4 | US-10-184-644-295 | Sequence 295, App |
| 615 | 37 | 64.9 | 1648 | 4 | US-10-184-634-295 | Sequence 295, App |
| 616 | 37 | 64.9 | 1661 | 4 | US-10-123-155-223 | Sequence 223, App |
| 617 | 37 | 64.9 | 1661 | 4 | US-10-146-731-223 | Sequence 223, App |
| 618 | 37 | 64.9 | 1661 | 4 | US-10-140-472-223 | Sequence 223, App |
| 619 | 37 | 64.9 | 1661 | 4 | US-10-141-761-223 | Sequence 223, App |
| 620 | 37 | 64.9 | 1661 | 4 | US-10-142-885-223 | Sequence 223, App |
| 621 | 37 | 64.9 | 1661 | 4 | US-10-158-790-223 | Sequence 223, App |
| 622 | 37 | 64.9 | 1661 | 4 | US-10-137-871-223 | Sequence 223, App |
| 623 | 37 | 64.9 | 1661 | 4 | US-10-140-923-223 | Sequence 223, App |
| 624 | 37 | 64.9 | 1661 | 4 | US-10-141-756-223 | Sequence 223, App |
| 625 | 37 | 64.9 | 1661 | 4 | US-10-141-759-223 | Sequence 223, App |
| 626 | 37 | 64.9 | 1661 | 4 | US-10-140-805-223 | Sequence 223, App |
| 627 | 37 | 64.9 | 1661 | 4 | US-10-140-864-223 | Sequence 223, App |
| 628 | 37 | 64.9 | 1665 | 4 | US-10-184-644-285 | Sequence 285, App |
| 629 | 37 | 64.9 | 1665 | 4 | US-10-184-634-285 | Sequence 285, App |
| 630 | 37 | 64.9 | 1665 | 4 | US-10-063-685-85 | Sequence 85, Appl |
| 631 | 37 | 64.9 | 1672 | 4 | US-10-063-685-17 | Sequence 17, Appl |
| 632 | 37 | 64.9 | 1674 | 4 | US-10-123-155-453 | Sequence 453, App |
| 633 | 37 | 64.9 | 1674 | 4 | US-10-146-731-453 | Sequence 453, App |
| 634 | 37 | 64.9 | 1674 | 4 | US-10-140-472-453 | Sequence 453, App |
| 635 | 37 | 64.9 | 1674 | 4 | US-10-141-761-453 | Sequence 453, App |
| 636 | 37 | 64.9 | 1674 | 4 | US-10-142-885-453 | Sequence 453, App |
| 637 | 37 | 64.9 | 1674 | 4 | US-10-158-790-453 | Sequence 453, App |
| 638 | 37 | 64.9 | 1674 | 4 | US-10-137-871-453 | Sequence 453, App |
| 639 | 37 | 64.9 | 1674 | 4 | US-10-140-923-453 | Sequence 453, App |
| 640 | 37 | 64.9 | 1674 | 4 | US-10-141-756-453 | Sequence 453, App |
| 641 | 37 | 64.9 | 1674 | 4 | US-10-141-759-453 | Sequence 453, App |
| 642 | 37 | 64.9 | 1674 | 4 | US-10-140-805-453 | Sequence 453, App |
| 643 | 37 | 64.9 | 1674 | 4 | US-10-140-864-453 | Sequence 453, App |
| 644 | 37 | 64.9 | 1676 | 4 | US-10-184-644-203 | Sequence 203, App |
| 645 | 37 | 64.9 | 1676 | 4 | US-10-184-634-203 | Sequence 203, App |
| 646 | 37 | 64.9 | 1676 | 4 | US-10-063-685-53 | Sequence 53, Appl |
| 647 | 37 | 64.9 | 1679 | 4 | US-10-123-155-375 | Sequence 375, App |
| 648 | 37 | 64.9 | 1679 | 4 | US-10-146-731-375 | Sequence 375, App |
| 649 | 37 | 64.9 | 1679 | 4 | US-10-140-472-375 | Sequence 375, App |
| 650 | 37 | 64.9 | 1679 | 4 | US-10-141-761-375 | Sequence 375, App |
| 651 | 37 | 64.9 | 1679 | 4 | US-10-142-885-375 | Sequence 375, App |
| 652 | 37 | 64.9 | 1679 | 4 | US-10-158-790-375 | Sequence 375, App |
| 653 | 37 | 64.9 | 1679 | 4 | US-10-137-871-375 | Sequence 375, App |
| 654 | 37 | 64.9 | 1679 | 4 | US-10-140-923-375 | Sequence 375, App |
| 655 | 37 | 64.9 | 1679 | 4 | US-10-141-756-375 | Sequence 375, App |
| 656 | 37 | 64.9 | 1679 | 4 | US-10-141-759-375 | Sequence 375, App |
| 657 | 37 | 64.9 | 1679 | 4 | US-10-140-805-375 | Sequence 375, App |
| 658 | 37 | 64.9 | 1679 | 4 | US-10-140-864-375 | Sequence 375, App |
| 659 | 37 | 64.9 | 1685 | 4 | US-10-123-155-347 | Sequence 347, App |
| 660 | 37 | 64.9 | 1685 | 4 | US-10-146-731-347 | Sequence 347, App |
| 661 | 37 | 64.9 | 1685 | 4 | US-10-140-472-347 | Sequence 347, App |
| 662 | 37 | 64.9 | 1685 | 4 | US-10-141-761-347 | Sequence 347, App |
| 663 | 37 | 64.9 | 1685 | 4 | US-10-142-885-347 | Sequence 347, App |
| 664 | 37 | 64.9 | 1685 | 4 | US-10-158-790-347 | Sequence 347, App |
| 665 | 37 | 64.9 | 1685 | 4 | US-10-137-871-347 | Sequence 347, App |
| 666 | 37 | 64.9 | 1685 | 4 | US-10-140-923-347 | Sequence 347, App |
| 667 | 37 | 64.9 | 1685 | 4 | US-10-141-756-347 | Sequence 347, App |
| 668 | 37 | 64.9 | 1685 | 4 | US-10-141-759-347 | Sequence 347, App |
| 669 | 37 | 64.9 | 1685 | 4 | US-10-140-805-347 | Sequence 347, App |
| 670 | 37 | 64.9 | 1685 | 4 | US-10-140-864-347 | Sequence 347, App |
| 671 | 37 | 64.9 | 1690 | 4 | US-10-184-644-449 | Sequence 449, App |
| 672 | 37 | 64.9 | 1690 | 4 | US-10-184-634-449 | Sequence 449, App |
| 673 | 37 | 64.9 | 1701 | 4 | US-10-184-644-267 | Sequence 267, App |
| 674 | 37 | 64.9 | 1701 | 4 | US-10-184-634-267 | Sequence 267, App |
| 675 | 37 | 64.9 | 1701 | 4 | US-10-063-685-73 | Sequence 73, Appl |
| 676 | 37 | 64.9 | 1705 | 4 | US-10-184-644-393 | Sequence 393, App |
| 677 | 37 | 64.9 | 1705 | 4 | US-10-184-634-393 | Sequence 393, App |
| 678 | 37 | 64.9 | 1714 | 4 | US-10-123-155-251 | Sequence 251, App |
| 679 | 37 | 64.9 | 1714 | 4 | US-10-146-731-251 | Sequence 251, App |
| 680 | 37 | 64.9 | 1714 | 4 | US-10-140-472-251 | Sequence 251, App |
| 681 | 37 | 64.9 | 1714 | 4 | US-10-141-761-251 | Sequence 251, App |
| 682 | 37 | 64.9 | 1714 | 4 | US-10-142-885-251 | Sequence 251, App |
| 683 | 37 | 64.9 | 1714 | 4 | US-10-158-790-251 | Sequence 251, App |
| 684 | 37 | 64.9 | 1714 | 4 | US-10-137-871-251 | Sequence 251, App |

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| 686 | 37 | 64.9 | 1714 | 4 | US-10-141-756-251 | Sequence 251, App |
| 687 | 37 | 64.9 | 1714 | 4 | US-10-141-759-251 | Sequence 251, App |
| 688 | 37 | 64.9 | 1714 | 4 | US-10-140-805-251 | Sequence 251, App |
| 689 | 37 | 64.9 | 1714 | 4 | US-10-140-864-251 | Sequence 251, App |
| 690 | 37 | 64.9 | 1734 | 4 | US-10-184-644-201 | Sequence 201, App |
| 691 | 37 | 64.9 | 1734 | 4 | US-10-184-634-201 | Sequence 201, App |
| 692 | 37 | 64.9 | 1734 | 4 | US-10-063-685-51 | Sequence 51, Appl |
| 693 | 37 | 64.9 | 1738 | 4 | US-10-184-644-239 | Sequence 239, App |
| 694 | 37 | 64.9 | 1738 | 4 | US-10-184-634-239 | Sequence 239, App |
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| 696 | 37 | 64.9 | 1743 | 4 | US-10-174-590-451 | Sequence 451, App |
| 697 | 37 | 64.9 | 1743 | 4 | US-10-176-758-451 | Sequence 451, App |
| 698 | 37 | 64.9 | 1743 | 4 | US-10-175-737-451 | Sequence 451, App |
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| 700 | 37 | 64.9 | 1743 | 4 | US-10-176-483-451 | Sequence 451, App |
| 701 | 37 | 64.9 | 1743 | 4 | US-10-176-749-451 | Sequence 451, App |
| 702 | 37 | 64.9 | 1743 | 4 | US-10-176-914-451 | Sequence 451, App |
| 703 | 37 | 64.9 | 1743 | 4 | US-10-176-915-451 | Sequence 451, App |
| 704 | 37 | 64.9 | 1743 | 4 | US-10-173-706-451 | Sequence 451, App |
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| 710 | 37 | 64.9 | 1743 | 4 | US-10-180-552-451 | Sequence 451, App |
| 711 | 37 | 64.9 | 1743 | 4 | US-10-180-557-451 | Sequence 451, App |
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| 714 | 37 | 64.9 | 1743 | 4 | US-10-174-579-451 | Sequence 451, App |
| 715 | 37 | 64.9 | 1743 | 4 | US-10-174-582-451 | Sequence 451, App |
| 716 | 37 | 64.9 | 1743 | 4 | US-10-174-588-451 | Sequence 451, App |
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| 719 | 37 | 64.9 | 1743 | 4 | US-10-175-743-451 | Sequence 451, App |
| 720 | 37 | 64.9 | 1743 | 4 | US-10-176-488-451 | Sequence 451, App |
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| 722 | 37 | 64.9 | 1743 | 4 | US-10-176-747-451 | Sequence 451, App |
| 723 | 37 | 64.9 | 1743 | 4 | US-10-176-750-451 | Sequence 451, App |
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| 754 | 37 | 64.9 | 1743 | 4 | US-10-181-000-451 | Sequence 451, App |
| 755 | 37 | 64.9 | 1743 | 4 | US-10-183-010-451 | Sequence 451, App |
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| 758 | 37 | 64.9 | 1743 | 4 | US-10-184-623-451 | Sequence 451, App |
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| 761 | 37 | 64.9 | 1743 | 4 | US-10-184-646-451 | Sequence 451, App |
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| 763 | 37 | 64.9 | 1743 | 4 | US-10-184-652-451 | Sequence 451, App |
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| 766 | 37 | 64.9 | 1743 | 4 | US-10-187-745-451 | Sequence 451, App |
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| 769 | 37 | 64.9 | 1743 | 4 | US-10-199-464-451 | Sequence 451, App |
| 770 | 37 | 64.9 | 1743 | 4 | US-10-196-756-451 | Sequence 451, App |
| 771 | 37 | 64.9 | 1743 | 4 | US-10-176-751-451 | Sequence 451, App |
| 772 | 37 | 64.9 | 1743 | 4 | US-10-176-760-451 | Sequence 451, App |
| 773 | 37 | 64.9 | 1743 | 4 | US-10-176-990-451 | Sequence 451, App |
| 774 | 37 | 64.9 | 1743 | 4 | US-10-180-541-451 | Sequence 451, App |
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| 776 | 37 | 64.9 | 1743 | 4 | US-10-180-548-451 | Sequence 451, App |
| 777 | 37 | 64.9 | 1743 | 4 | US-10-180-551-451 | Sequence 451, App |
| 778 | 37 | 64.9 | 1743 | 4 | US-10-180-998-451 | Sequence 451, App |
| 779 | 37 | 64.9 | 1743 | 4 | US-10-180-999-451 | Sequence 451, App |
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| 783 | 37 | 64.9 | 1743 | 4 | US-10-184-617-451 | Sequence 451, App |
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| 786 | 37 | 64.9 | 1743 | 4 | US-10-184-629-451 | Sequence 451, App |
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| 793 | 37 | 64.9 | 1743 | 4 | US-10-184-651-451 | Sequence 451, App |
| 794 | 37 | 64.9 | 1743 | 4 | US-10-187-588-451 | Sequence 451, App |
| 795 | 37 | 64.9 | 1743 | 4 | US-10-187-597-451 | Sequence 451, App |
| 796 | 37 | 64.9 | 1743 | 4 | US-10-187-598-451 | Sequence 451, App |
| 797 | 37 | 64.9 | 1743 | 4 | US-10-187-600-451 | Sequence 451, App |
| 798 | 37 | 64.9 | 1743 | 4 | US-10-187-601-451 | Sequence 451, App |
| 799 | 37 | 64.9 | 1743 | 4 | US-10-187-602-451 | Sequence 451, App |
| 800 | 37 | 64.9 | 1743 | 4 | US-10-187-603-451 | Sequence 451, App |
| 801 | 37 | 64.9 | 1743 | 4 | US-10-187-741-451 | Sequence 451, App |
| 802 | 37 | 64.9 | 1743 | 4 | US-10-187-743-451 | Sequence 451, App |
| 803 | 37 | 64.9 | 1743 | 4 | US-10-187-746-451 | Sequence 451, App |
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| 856 | 37 | 64.9 | 1743 | 4 | US-10-179-514-451 | Sequence 451, App |
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| 858 | 37 | 64.9 | 1743 | 4 | US-10-180-556-451 | Sequence 451, App |
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| 860 | 37 | 64.9 | 1743 | 4 | US-10-183-015-451 | Sequence 451, App |
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| 862 | 37 | 64.9 | 1743 | 4 | US-10-184-620-451 | Sequence 451, App |
| 863 | 37 | 64.9 | 1743 | 4 | US-10-184-643-451 | Sequence 451, App |
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| 871 | 37 | 64.9 | 1743 | 4 | US-10-192-015-451 | Sequence 451, App |
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| 878 | 37 | 64.9 | 1743 | 4 | US-10-196-750-451 | Sequence 451, App |
| 879 | 37 | 64.9 | 1743 | 4 | US-10-197-699-451 | Sequence 451, App |
| 880 | 37 | 64.9 | 1743 | 4 | US-10-197-700-451 | Sequence 451, App |
| 881 | 37 | 64.9 | 1743 | 4 | US-10-197-705-451 | Sequence 451, App |
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| 883 | 37 | 64.9 | 1743 | 4 | US-10-198-764-451 | Sequence 451, App |
| 884 | 37 | 64.9 | 1743 | 4 | US-10-198-765-451 | Sequence 451, App |
| 885 | 37 | 64.9 | 1743 | 4 | US-10-198-768-451 | Sequence 451, App |
| 886 | 37 | 64.9 | 1743 | 4 | US-10-198-769-451 | Sequence 451, App |
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| 910 | 37 | 64.9 | 1743 | 4 | US-10-205-899-451 | Sequence 451, App |
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| 942 | 37 | 64.9 | 1743 | 4 | US-10-205-902-451 | Sequence 451, App |
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| 946 | 37 | 64.9 | 1743 | 4 | US-10-196-758-451 | Sequence 451, App |
| 947 | 37 | 64.9 | 1743 | 4 | US-10-198-770-451 | Sequence 451, App |
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| 965 | 37 | 64.9 | 1743 | 4 | US-10-197-704-451 | Sequence 451, App |
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| 981 | 37 | 64.9 | 1743 | 4 | US-10-207-922-451 | Sequence 451, App |
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| 984 | 37 | 64.9 | 1743 | 4 | US-10-196-754-451 | Sequence 451, App |
| 985 | 37 | 64.9 | 1743 | 4 | US-10-174-571-451 | Sequence 451, App |
| 986 | 37 | 64.9 | 1743 | 4 | US-10-176-746-451 | Sequence 451, App |
| 987 | 37 | 64.9 | 1743 | 4 | US-10-176-923-451 | Sequence 451, App |
| 988 | 37 | 64.9 | 1743 | 4 | US-10-183-011-451 | Sequence 451, App |
| 989 | 37 | 64.9 | 1743 | 4 | US-10-184-633-451 | Sequence 451, App |
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| 992 | 37 | 64.9 | 1743 | 4 | US-10-187-748-451 | Sequence 451, App |
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| 994 | 37 | 64.9 | 1743 | 4 | US-10-188-771-451 | Sequence 451, App |
| 995 | 37 | 64.9 | 1743 | 4 | US-10-192-006-451 | Sequence 451, App |
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| 998 | 37 | 64.9 | 1743 | 4 | US-10-192-012-451 | Sequence 451, App |
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ALIGNMENTS

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RESULT 1
US-10-484-063-9
; Sequence 9, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
;   LENGTH: 16
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-484-063-9

  Query Match             100.0%;  Score 57;  DB 5;  Length 16;
  Best Local Similarity   100.0%;  Pred. No. 0.36;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db          3 TGRCMSCCR 11


RESULT 2
US-10-938-249-513
; Sequence 513, Application US/10938249
; Publication No. US20050037969A1
; GENERAL INFORMATION:
;  APPLICANT: Lu, Peter S.
;  APPLICANT:  Rabinowitz, Joshua D.
;  APPLICANT:  Schweizer, Johannes
;  APPLICANT:  Arbor Vita Corporation
;  TITLE OF INVENTION: Molecular Interactions in Hematopoietic
;  TITLE OF INVENTION:  Cells
;  FILE REFERENCE: 020054-001130US
;  CURRENT APPLICATION NUMBER: US/10/938,249
;  CURRENT FILING DATE:  2004-09-10
;  PRIOR APPLICATION NUMBER: US/09/724,553
;  PRIOR FILING DATE: 2000-11-28
;  PRIOR APPLICATION NUMBER: US 60/134,114
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US 60/134,117
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US 60/134,118
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US 60/160,860
;  PRIOR FILING DATE: 1999-10-21
;  PRIOR APPLICATION NUMBER: US 60/162,498
;  PRIOR FILING DATE: 1999-10-29
;  PRIOR APPLICATION NUMBER: US 60/170,453
;  PRIOR FILING DATE: 1999-12-13
;  PRIOR APPLICATION NUMBER: US 60/176,195
;  PRIOR FILING DATE: 2000-01-14
;  PRIOR APPLICATION NUMBER: US 60/182,296
;  PRIOR FILING DATE: 2000-02-14
;  PRIOR APPLICATION NUMBER: US 60/196,267
;  PRIOR FILING DATE: 2000-04-11
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 543
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 513
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: HPV16 E6 C-terminal
US-10-938-249-513

  Query Match             100.0%;  Score 57;  DB 5;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.43;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db          2 TGRCMSCCR 10


RESULT 3
US-10-476-570-44
; Sequence 44, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 44
;   LENGTH: 24
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 135-158
US-10-476-570-44
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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db          6 TGRCMSCCR 14


RESULT 4
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
;  APPLICANT: Schuler, Gerold
;  APPLICANT:  N.V. Antwerps Innovatiecentrum
;  TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
;  TITLE OF INVENTION:  Polynucleotides by Electroporation
;  FILE REFERENCE: 021505wo/JH/ml
;  CURRENT APPLICATION NUMBER: US/10/177,390
;  CURRENT FILING DATE:  2002-06-20
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-177-390-6

  Query Match           100.0%;  Score 57;  DB 4;  Length 151;
  Best Local Similarity  100.0%;  Pred. No. 2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        133 TGRCMSCCR 141


RESULT 5
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-484-063-20

  Query Match           100.0%;  Score 57;  DB 5;  Length 151;
  Best Local Similarity  100.0%;  Pred. No. 2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        133 TGRCMSCCR 141


RESULT 6
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-484-063-27

  Query Match           100.0%;  Score 57;  DB 5;  Length 151;
  Best Local Similarity  100.0%;  Pred. No. 2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        133 TGRCMSCCR 141


RESULT 7
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-10-858-384-2

  Query Match           100.0%;  Score 57;  DB 5;  Length 158;
  Best Local Similarity  100.0%;  Pred. No. 2.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        140 TGRCMSCCR 148


RESULT 8
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
```

```
; GENERAL INFORMATION:
;  APPLICANT: Cuthill, Scott;
;  APPLICANT:  Jackson, Amanda;
;  APPLICANT:  Lewin, David A.;
;  APPLICANT:  Ooi, Chean Eng
;  TITLE OF INVENTION: Complexes and Methods of Using Same
;  FILE REFERENCE: 21402-559
;  CURRENT APPLICATION NUMBER: US/10/367,057
;  CURRENT FILING DATE:  2003-02-14
;  PRIOR APPLICATION NUMBER: 60/256,911
;  PRIOR FILING DATE: 2002-02-14
;  NUMBER OF SEQ ID NOS: 198
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 16
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-367-057-16

  Query Match             100.0%;  Score 57;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 2.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        140 TGRCMSCCR 148


RESULT 9
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

  Query Match             100.0%;  Score 57;  DB 6;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 2.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        140 TGRCMSCCR 148


RESULT 10
US-10-472-724-2
; Sequence 2, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
;  APPLICANT: Cid-Arregui, Angel
;  APPLICANT:  Zur Hausen, Harald
;  TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
;  FILE REFERENCE: 4121-154
;  CURRENT APPLICATION NUMBER: US/10/472,724
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP02/03271
;  PRIOR FILING DATE: 2002-03-22
;  PRIOR APPLICATION NUMBER: EP 01107271.7
;  PRIOR FILING DATE: 2001-03-23
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
;   LENGTH: 171
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

  Query Match             100.0%;  Score 57;  DB 4;  Length 171;
  Best Local Similarity   100.0%;  Pred. No. 2.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        145 TGRCMSCCR 153


RESULT 11
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
;  APPLICANT: KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE: 017753-122
;  CURRENT APPLICATION NUMBER: US/11/072,288
;  CURRENT FILING DATE:  2005-03-07
;  PRIOR APPLICATION NUMBER: US/09/462,993
;  PRIOR FILING DATE: 2000-04-17
;  PRIOR APPLICATION NUMBER: PCT/FR98/01576
;  PRIOR FILING DATE: 1998-07-17
;  PRIOR APPLICATION NUMBER: FR 97/09152
;  PRIOR FILING DATE: 1997-07-18
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

  Query Match             100.0%;  Score 57;  DB 6;  Length 243;
  Best Local Similarity   100.0%;  Pred. No. 2.9;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        163 TGRCMSCCR 171


RESULT 12
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
```

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;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match            100.0%;  Score 57;  DB 3;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 3.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        140 TGRCMSCCR 148


RESULT 13
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-4

  Query Match            100.0%;  Score 57;  DB 4;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 3.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        246 TGRCMSCCR 254


RESULT 14
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-4

  Query Match            100.0%;  Score 57;  DB 5;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 3.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        246 TGRCMSCCR 254


RESULT 15
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-10

  Query Match            100.0%;  Score 57;  DB 4;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 3.4;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        265 TGRCMSCCR 273


RESULT 16
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
```

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;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
;   OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-10

  Query Match             100.0%;  Score 57;  DB 5;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 3.4;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        265 TGRCMSCCR 273


RESULT 17
US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-6

  Query Match             100.0%;  Score 57;  DB 4;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 4.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        246 TGRCMSCCR 254


RESULT 18
US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
;   OTHER INFORMATION: virus type 16)
US-10-899-771-6

  Query Match             100.0%;  Score 57;  DB 5;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 4.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        246 TGRCMSCCR 254


RESULT 19
US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-14

  Query Match             100.0%;  Score 57;  DB 4;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 4.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        265 TGRCMSCCR 273


RESULT 20
US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
```

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;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
;   OTHER INFORMATION: pneumoniae and E6E7 fusion from Human papilloma
;   OTHER INFORMATION: virus type 16)
US-10-899-771-14

  Query Match             100.0%;  Score 57;  DB 5;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 4.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        265 TGRCMSCCR 273


RESULT 21
US-10-484-063-10
; Sequence 10, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-484-063-10

  Query Match             91.2%;  Score 52;  DB 5;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 1.2;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 GRCMSCCR 9
              ||||||||
Db          1 GRCMSCCR 8


RESULT 22
US-11-021-949-5
; Sequence 5, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
;   LENGTH: 24
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-5

  Query Match             91.2%;  Score 52;  DB 6;  Length 24;
  Best Local Similarity   100.0%;  Pred. No. 2.3;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCC 8
              ||||||||
Db         17 TGRCMSCC 24


RESULT 23
US-10-425-115-214017
; Sequence 214017, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 214017
;   LENGTH: 118
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(118)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_126780C.1.pep
US-10-425-115-214017

  Query Match             78.9%;  Score 45;  DB 4;  Length 118;
  Best Local Similarity   66.7%;  Pred. No. 68;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              :| |:||||
Db         65 SGECLSCCR 73


RESULT 24
US-11-021-949-14
; Sequence 14, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
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;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-14

  Query Match             75.4%;  Score 43;  DB 6;  Length 149;
  Best Local Similarity   100.0%;  Pred. No. 1.5e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSC 7
              |||||||
Db        133 TGRCMSC 139


RESULT 25
US-10-094-749-3195
; Sequence 3195, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
;  APPLICANT: ISOGAI, TAKAO
;  APPLICANT:  SUGIYAMA, TOMOYASU
;  APPLICANT:  OTSUKI, TETSUJI
;  APPLICANT:  WAKAMATSU, AI
;  APPLICANT:  SATO, HIROYUKI
;  APPLICANT:  ISHII, SHIZUKO
;  APPLICANT:  YAMAMOTO, JUN-ICHI
;  APPLICANT:  ISONO, YUUKO
;  APPLICANT:  HIO, YURI
;  APPLICANT:  OTSUKA, KAORU
;  APPLICANT:  NAGAI, KEIICHI
;  APPLICANT:  IRIE, RYOTARO
;  APPLICANT:  TAMECHIKA, ICHIRO
;  APPLICANT:  SEKI, NAOHIKO
;  APPLICANT:  YOSHIKAWA, TSUTOMU
;  APPLICANT:  OTSUKA, MOTOYUKI
;  APPLICANT:  NAGAHARI, KENJI
;  APPLICANT:  MASUHO, YASUHIKO
;  TITLE OF INVENTION: NOVEL FULL-LENGTH cDNA
;  FILE REFERENCE: 084335/0160
;  CURRENT APPLICATION NUMBER: US/10/094,749
;  CURRENT FILING DATE:  2002-03-12
;  PRIOR APPLICATION NUMBER: 60/350,435
;  PRIOR FILING DATE: 2002-01-24
;  PRIOR APPLICATION NUMBER: JP 2001-328381
;  PRIOR FILING DATE: 2001-09-14
;  NUMBER OF SEQ ID NOS: 3381
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3195
;   LENGTH: 573
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-094-749-3195

  Query Match             75.4%;  Score 43;  DB 4;  Length 573;
  Best Local Similarity   62.5%;  Pred. No. 4.2e+02;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 GRCMSCCR 9
              |:|:|||:
Db          2 GKCLSCCK 9


RESULT 26
US-10-437-963-197255
; Sequence 197255, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 197255
;   LENGTH: 181
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_9302C.1.pep
US-10-437-963-197255

  Query Match             73.7%;  Score 42;  DB 4;  Length 181;
  Best Local Similarity   75.0%;  Pred. No. 2.4e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 GRCMSCCR 9
              |||  |||
Db         59 GRCRGCCR 66


RESULT 27
US-10-450-763-56108
; Sequence 56108, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
;  APPLICANT: Hyseq, Inc
;  TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
;  FILE REFERENCE: 790CIP3/US
;  CURRENT APPLICATION NUMBER: US/10/450,763
;  CURRENT FILING DATE:  2003-06-11
;  PRIOR APPLICATION NUMBER: PCT/US01/08631
;  PRIOR FILING DATE: 2001-03-30
;  PRIOR APPLICATION NUMBER: 09/540,217
;  PRIOR FILING DATE: 2000-03-31
;  PRIOR APPLICATION NUMBER: 09/649,167
;  PRIOR FILING DATE: 2000-08-23
;  NUMBER OF SEQ ID NOS: 60736
;  SOFTWARE: Custom
; SEQ ID NO 56108
;   LENGTH: 1135
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: DOMAIN
;   LOCATION: (1027)..(1045)
;   OTHER INFORMATION: Kringle domain proteins domain identified by eMATRIX,
;   OTHER INFORMATION: accession number BL00021B, p-value=3.769e-11, raw score of 13.33
;   FEATURE:
;   NAME/KEY: DOMAIN
;   LOCATION: (154)..(420)
;   OTHER INFORMATION: Peptidase family M1 domain identified by PFam, accession name
;   OTHER INFORMATION: Peptidase_M1, E-value=2.9e-87, PFam score of 253.3
US-10-450-763-56108

  Query Match             73.7%;  Score 42;  DB 5;  Length 1135;
  Best Local Similarity   55.6%;  Pred. No. 9.8e+02;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              :|||: ||:
Db         71 SGRCLPCCK 79


RESULT 28
```

```
US-10-425-115-266658
; Sequence 266658, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 266658
;   LENGTH: 56
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_174793C.1.pep
US-10-425-115-266658

  Query Match             71.9%;  Score 41;  DB 4;  Length 56;
  Best Local Similarity   75.0%;  Pred. No. 1.3e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 GRCMSCCR 9
              ||| |||:
Db          7 GRCPSCCQ 14


RESULT 29
US-09-984-245-155
; Sequence 155, Application US/09984245
; Patent No. US20020165374A1
; GENERAL INFORMATION:
;  APPLICANT: Young et al.
;  TITLE OF INVENTION: 87 Human Secreted Proteins
;  FILE REFERENCE: PZ004P1
;  CURRENT APPLICATION NUMBER: US/09/984,245
;  CURRENT FILING DATE:  2001-10-29
;  PRIOR APPLICATION NUMBER: 09/154,707
;  PRIOR FILING DATE: 1998-09-17
;  PRIOR APPLICATION NUMBER: PCT/US98/05311
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: US 60/041,277
;  PRIOR FILING DATE: 1997-03-21
;  PRIOR APPLICATION NUMBER: US 60/042,344
;  PRIOR FILING DATE: 1997-03-21
;  PRIOR APPLICATION NUMBER: US 60/041,276
;  PRIOR FILING DATE: 1997-03-21
;  PRIOR APPLICATION NUMBER: US 60/041,281
;  PRIOR FILING DATE: 1997-03-21
;  PRIOR APPLICATION NUMBER: US 60/048,094
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,350
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,188
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,135
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/050,937
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,187
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,099
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,352
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,186
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,069
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,095
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,131
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,096
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,355
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,160
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,351
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,154
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/054,804
;  PRIOR FILING DATE: 1997-08-05
;  PRIOR APPLICATION NUMBER: US 60/056,370
;  PRIOR FILING DATE: 1997-08-19
;  PRIOR APPLICATION NUMBER: US 60/060,862
;  PRIOR FILING DATE: 1997-10-02
;  NUMBER OF SEQ ID NOS: 343
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 155
;   LENGTH: 89
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-984-245-155

  Query Match             71.9%;  Score 41;  DB 3;  Length 89;
  Best Local Similarity   77.8%;  Pred. No. 1.9e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              ||| | |||
Db         38 TGRRMQCCR 46


RESULT 30
US-09-966-262-155
; Sequence 155, Application US/09966262
; Publication No. US20030050461A1
; GENERAL INFORMATION:
;  APPLICANT: Young et al.
;  TITLE OF INVENTION: 87 Human Secreted Proteins
;  FILE REFERENCE: PZ004P1
;  CURRENT APPLICATION NUMBER: US/09/966,262
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: US 09/154,707
;  PRIOR FILING DATE: 1998-09-17
;  PRIOR APPLICATION NUMBER: PCT/US98/05311
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: US 60/041,277
;  PRIOR FILING DATE: 1997-03-21
;  PRIOR APPLICATION NUMBER: US 60/042,344
;  PRIOR FILING DATE: 1997-03-21
;  PRIOR APPLICATION NUMBER: US 60/041,276
;  PRIOR FILING DATE: 1997-03-21
;  PRIOR APPLICATION NUMBER: US 60/041,281
;  PRIOR FILING DATE: 1997-03-21
;  PRIOR APPLICATION NUMBER: US 60/048,094
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,350
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,188
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,135
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/050,937
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,187
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,099
;  PRIOR FILING DATE: 1997-05-30
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;  PRIOR APPLICATION NUMBER: US 60/048,352
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,186
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,069
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,095
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,131
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,096
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,355
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,160
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,351
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,154
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/054,804
;  PRIOR FILING DATE: 1997-08-05
;  PRIOR APPLICATION NUMBER: US 60/056,370
;  PRIOR FILING DATE: 1997-08-19
;  PRIOR APPLICATION NUMBER: US 60/060,862
;  PRIOR FILING DATE: 1997-10-02
;  NUMBER OF SEQ ID NOS: 343
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 155
;   LENGTH: 89
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-966-262-155

  Query Match             71.9%;  Score 41;  DB 3;  Length 89;
  Best Local Similarity   77.8%;  Pred. No. 1.9e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              ||| | |||
Db         38 TGRRMQCCR 46


RESULT 31
US-09-983-966-155
; Sequence 155, Application US/09983966
; Publication No. US20030060619A1
; GENERAL INFORMATION:
;  APPLICANT: Young et al.
;  TITLE OF INVENTION: 87 Human Secreted Proteins
;  FILE REFERENCE: PZ004P1
;  CURRENT APPLICATION NUMBER: US/09/983,966
;  CURRENT FILING DATE:  2001-10-29
;  PRIOR APPLICATION NUMBER: 09/154,707
;  PRIOR FILING DATE: 1998-09-17
;  PRIOR APPLICATION NUMBER: PCT/US98/05311
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: US 60/041,277
;  PRIOR FILING DATE: 1997-03-21
;  PRIOR APPLICATION NUMBER: US 60/042,344
;  PRIOR FILING DATE: 1997-03-21
;  PRIOR APPLICATION NUMBER: US 60/041,276
;  PRIOR FILING DATE: 1997-03-21
;  PRIOR APPLICATION NUMBER: US 60/041,281
;  PRIOR FILING DATE: 1997-03-21
;  PRIOR APPLICATION NUMBER: US 60/048,094
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,350
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,188
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,135
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/050,937
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,187
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,099
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,352
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,186
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,069
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,095
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,131
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,096
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,355
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,160
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,351
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,154
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/054,804
;  PRIOR FILING DATE: 1997-08-05
;  PRIOR APPLICATION NUMBER: US 60/056,370
;  PRIOR FILING DATE: 1997-08-19
;  PRIOR APPLICATION NUMBER: US 60/060,862
;  PRIOR FILING DATE: 1997-10-02
;  NUMBER OF SEQ ID NOS: 343
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 155
;   LENGTH: 89
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-983-966-155

  Query Match             71.9%;  Score 41;  DB 3;  Length 89;
  Best Local Similarity   77.8%;  Pred. No. 1.9e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              ||| | |||
Db         38 TGRRMQCCR 46


RESULT 32
US-09-978-360A-724
; Sequence 724, Application US/09978360A
; Publication No. US20040110939A1
; GENERAL INFORMATION:
;  APPLICANT: Edwards, Jean-Baptiste Dumas Milne
;  APPLICANT:  Duclert, Aymeric
;  APPLICANT:  Bougueleret, Lydie
;  APPLICANT:  Jobert, Severin
;  APPLICANT:  Clusel, Catherine
;  TITLE OF INVENTION: Complementary DNA's Encoding Proteins with Signal Peptides
;  FILE REFERENCE: 56.US4.CIP
;  CURRENT APPLICATION NUMBER: US/09/978,360A
;  CURRENT FILING DATE:  2001-10-15
;  PRIOR APPLICATION NUMBER: US 60/066,677
;  PRIOR FILING DATE: 1997-11-13
;  PRIOR APPLICATION NUMBER: US 60/069,957
;  PRIOR FILING DATE: 1997-12-17
;  PRIOR APPLICATION NUMBER: US 60/074,121
;  PRIOR FILING DATE: 1998-02-09
;  PRIOR APPLICATION NUMBER: US 60/081,563
;  PRIOR FILING DATE: 1998-04-13
;  PRIOR APPLICATION NUMBER: US 60/096,116
;  PRIOR FILING DATE: 1998-08-10
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;  PRIOR APPLICATION NUMBER: US 60/099,273
;  PRIOR FILING DATE: -09-04
;  PRIOR APPLICATION NUMBER: US 09/191,997
;  PRIOR FILING DATE: 1998-11-13
;  PRIOR APPLICATION NUMBER: US 09/215,435
;  PRIOR FILING DATE: 1998-12-17
;  PRIOR APPLICATION NUMBER: PCT/IB98/02122
;  PRIOR FILING DATE: 1998-12-17
;  PRIOR APPLICATION NUMBER: US 09/247,155
;  PRIOR FILING DATE: 1999-02-09
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 810
;  SOFTWARE: Patent.pm
; SEQ ID NO 724
;   LENGTH: 89
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SIGNAL
;   LOCATION: -16..-1
US-09-978-360A-724

  Query Match             71.9%;  Score 41;  DB 3;  Length 89;
  Best Local Similarity   77.8%;  Pred. No. 1.9e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              ||| | |||
Db         38 TGRRMQCCR 46


RESULT 33
US-10-059-395-155
; Sequence 155, Application US/10059395
; Publication No. US20030018180A1
; GENERAL INFORMATION:
;  APPLICANT: Young et al.
;  TITLE OF INVENTION: 87 Human Secreted Proteins
;  FILE REFERENCE: PZ004P1
;  CURRENT APPLICATION NUMBER: US/10/059,395
;  CURRENT FILING DATE:  2002-01-31
;  PRIOR APPLICATION NUMBER: US/09/966,262
;  PRIOR FILING DATE: 2001-10-01
;  PRIOR APPLICATION NUMBER: US 09/154,707
;  PRIOR FILING DATE: 1998-09-17
;  PRIOR APPLICATION NUMBER: PCT/US98/05311
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: US 60/041,277
;  PRIOR FILING DATE: 1997-03-21
;  PRIOR APPLICATION NUMBER: US 60/042,344
;  PRIOR FILING DATE: 1997-03-21
;  PRIOR APPLICATION NUMBER: US 60/041,276
;  PRIOR FILING DATE: 1997-03-21
;  PRIOR APPLICATION NUMBER: US 60/041,281
;  PRIOR FILING DATE: 1997-03-21
;  PRIOR APPLICATION NUMBER: US 60/048,094
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,350
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,188
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,135
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/050,937
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,187
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,099
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,352
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,186
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,069
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,095
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,131
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,096
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,355
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,160
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,351
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/048,154
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: US 60/054,804
;  PRIOR FILING DATE: 1997-08-05
;  PRIOR APPLICATION NUMBER: US 60/056,370
;  PRIOR FILING DATE: 1997-08-19
;  PRIOR APPLICATION NUMBER: US 60/060,862
;  PRIOR FILING DATE: 1997-10-02
;  NUMBER OF SEQ ID NOS: 343
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 155
;   LENGTH: 89
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-059-395-155

  Query Match             71.9%;  Score 41;  DB 4;  Length 89;
  Best Local Similarity   77.8%;  Pred. No. 1.9e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              ||| | |||
Db         38 TGRRMQCCR 46


RESULT 34
US-10-143-090-155
; Sequence 155, Application US/10143090
; Publication No. US20030069406A1
; GENERAL INFORMATION:
;  APPLICANT: Young et al.
;  TITLE OF INVENTION: 87 Human Secreted Proteins
;  FILE REFERENCE: PZ004P1
;  CURRENT APPLICATION NUMBER: US/10/143,090
;  CURRENT FILING DATE:  2002-05-13
;  PRIOR APPLICATION NUMBER: 09/154,707
;  PRIOR FILING DATE: 1998-09-17
;  NUMBER OF SEQ ID NOS: 343
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 155
;   LENGTH: 89
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-143-090-155

  Query Match             71.9%;  Score 41;  DB 4;  Length 89;
  Best Local Similarity   77.8%;  Pred. No. 1.9e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              ||| | |||
Db         38 TGRRMQCCR 46


RESULT 35
US-10-319-763-118
; Sequence 118, Application US/10319763
; Publication No. US20030144490A1
; GENERAL INFORMATION:
```

```
;  APPLICANT: Dumas Milne Edwards, Jean-Baptiste
;  APPLICANT:  Duclert, Aymeric
;  APPLICANT:  Bougueleret, Lydie
;  TITLE OF INVENTION: EXTENDED CDNAS FOR SECRETED PROTEINS
;  FILE REFERENCE: G-031.US04.DIV
;  CURRENT APPLICATION NUMBER: US/10/319,763
;  CURRENT FILING DATE:  2002-12-10
;  PRIOR APPLICATION NUMBER: 60/066,677
;  PRIOR FILING DATE: 1997-11-13
;  PRIOR APPLICATION NUMBER: 60/069,957
;  PRIOR FILING DATE: 1997-12-17
;  PRIOR APPLICATION NUMBER: 60/074,121
;  PRIOR FILING DATE: 1998-02-09
;  PRIOR APPLICATION NUMBER: 60/081,563
;  PRIOR FILING DATE: 1998-04-13
;  PRIOR APPLICATION NUMBER: 60/096,116
;  PRIOR FILING DATE: 1998-08-10
;  PRIOR APPLICATION NUMBER: 60/099,273
;  PRIOR FILING DATE: 1998-09-04
;  NUMBER OF SEQ ID NOS: 229
;  SOFTWARE: Patent.pm
; SEQ ID NO 118
;   LENGTH: 89
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SIGNAL
;   LOCATION: -16..-1
US-10-319-763-118

  Query Match             71.9%;  Score 41;  DB 4;  Length 89;
  Best Local Similarity   77.8%;  Pred. No. 1.9e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              ||| | |||
Db         38 TGRRMQCCR 46


RESULT 36
US-10-319-763-212
; Sequence 212, Application US/10319763
; Publication No. US20030144490A1
; GENERAL INFORMATION:
;  APPLICANT: Dumas Milne Edwards, Jean-Baptiste
;  APPLICANT:  Duclert, Aymeric
;  APPLICANT:  Bougueleret, Lydie
;  TITLE OF INVENTION: EXTENDED CDNAS FOR SECRETED PROTEINS
;  FILE REFERENCE: G-031.US04.DIV
;  CURRENT APPLICATION NUMBER: US/10/319,763
;  CURRENT FILING DATE:  2002-12-10
;  PRIOR APPLICATION NUMBER: 60/066,677
;  PRIOR FILING DATE: 1997-11-13
;  PRIOR APPLICATION NUMBER: 60/069,957
;  PRIOR FILING DATE: 1997-12-17
;  PRIOR APPLICATION NUMBER: 60/074,121
;  PRIOR FILING DATE: 1998-02-09
;  PRIOR APPLICATION NUMBER: 60/081,563
;  PRIOR FILING DATE: 1998-04-13
;  PRIOR APPLICATION NUMBER: 60/096,116
;  PRIOR FILING DATE: 1998-08-10
;  PRIOR APPLICATION NUMBER: 60/099,273
;  PRIOR FILING DATE: 1998-09-04
;  NUMBER OF SEQ ID NOS: 229
;  SOFTWARE: Patent.pm
; SEQ ID NO 212
;   LENGTH: 89
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SIGNAL
;   LOCATION: -16..-1
US-10-319-763-212

  Query Match             71.9%;  Score 41;  DB 4;  Length 89;
  Best Local Similarity   77.8%;  Pred. No. 1.9e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              ||| | |||
Db         38 TGRRMQCCR 46


RESULT 37
US-10-960-251-155
; Sequence 155, Application US/10960251
; Publication No. US20050089911A1
; GENERAL INFORMATION:
;  APPLICANT: Young et al.
;  TITLE OF INVENTION: 87 Human Secreted Proteins
;  FILE REFERENCE: PZ004P1C3
;  CURRENT APPLICATION NUMBER: US/10/960,251
;  CURRENT FILING DATE:  2004-10-08
;  PRIOR APPLICATION NUMBER: US 10/143,090
;  PRIOR FILING DATE: 2002-05-13
;  PRIOR APPLICATION NUMBER: US 09/154,707
;  PRIOR FILING DATE: 1998-09-17
;  PRIOR APPLICATION NUMBER: PCT/US98/05311
;  PRIOR FILING DATE: 1998-03-19
;  PRIOR APPLICATION NUMBER: 60/041,277
;  PRIOR FILING DATE: 1997-03-21
;  PRIOR APPLICATION NUMBER: 60/042,344
;  PRIOR FILING DATE: 1997-03-21
;  PRIOR APPLICATION NUMBER: 60/041,276
;  PRIOR FILING DATE: 1997-03-21
;  PRIOR APPLICATION NUMBER: 60/041,281
;  PRIOR FILING DATE: 1997-03-21
;  PRIOR APPLICATION NUMBER: 60/048,094
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: 60/048,350
;  PRIOR FILING DATE: 1997-05-30
;  PRIOR APPLICATION NUMBER: 60/048,188
;  PRIOR FILING DATE: 1997-05-30
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 343
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 155
;   LENGTH: 89
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-960-251-155

  Query Match             71.9%;  Score 41;  DB 5;  Length 89;
  Best Local Similarity   77.8%;  Pred. No. 1.9e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              ||| | |||
Db         38 TGRRMQCCR 46


RESULT 38
US-10-425-115-357248
; Sequence 357248, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
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; SEQ ID NO 357248
; LENGTH: 113
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(113)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_88980C.1.pep
US-10-425-115-357248

Query Match 71.9%; Score 41; DB 4; Length 113;
Best Local Similarity 85.7%; Pred. No. 2.2e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 RCMSCCR 9
||| |||
Db 86 RCMCCCR 92

RESULT 39
US-10-739-930-11071
; Sequence 11071, Application US/10739930
; Publication No. US20040216190A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; TITLE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53377)B
; CURRENT APPLICATION NUMBER: US/10/739,930
; CURRENT FILING DATE: 2003-12-18
; NUMBER OF SEQ ID NOS: 11088
; SEQ ID NO 11071
; LENGTH: 377
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(377)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: TRIAE-23APR03-C98_877.p
US-10-739-930-11071

Query Match 71.9%; Score 41; DB 5; Length 377;
Best Local Similarity 100.0%; Pred. No. 5.7e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 CMSCCR 9
||||||
Db 317 CMSCCR 322

RESULT 40
US-09-782-980-82
; Sequence 82, Application US/09782980
; Patent No. US20020072089A1
; GENERAL INFORMATION:
; APPLICANT: Khodadoust, Mehran M.
; APPLICANT: MacBeth, Kyle J.
; APPLICANT: Busfield, Samantha J.
; APPLICANT: McCarthy, Sean A.
; APPLICANT: Holtzman, Douglas A.
; APPLICANT: Gu, Wei
; APPLICANT: White, David
; APPLICANT: Pan, Yang
; TITLE OF INVENTION: NOVEL ITALY, LOR-2, STRIFE, TRASH, BDSF, LRSG, AND
; TITLE OF INVENTION: STMST PROTEIN AND NUCLEIC ACID MOLECULES AND USES
; TITLE OF INVENTION: THEREFOR
; FILE REFERENCE: MNI-121CP
; CURRENT APPLICATION NUMBER: US/09/782,980
; CURRENT FILING DATE: 2001-02-13
; PRIOR APPLICATION NUMBER: PCT/US00/02125
; PRIOR FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: 09/448,076
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: 09/276,400
; PRIOR FILING DATE: 1999-03-25
; PRIOR APPLICATION NUMBER: 60/117,580
; PRIOR FILING DATE: 1999-01-27
; PRIOR APPLICATION NUMBER: 09/014,195
; PRIOR FILING DATE: 1998-01-27
; PRIOR APPLICATION NUMBER: 09/014,348
; PRIOR FILING DATE: 1998-01-27
; PRIOR APPLICATION NUMBER: 09/086,892
; PRIOR FILING DATE: 1998-05-29
; PRIOR APPLICATION NUMBER: 09/296,208
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: 09/063,950
; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 09/561,381
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: 09/561,810
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: 09/087,121
; PRIOR FILING DATE: 1998-05-29
; PRIOR APPLICATION NUMBER: 09/672,721
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 09/049,799
; PRIOR FILING DATE: 1998-03-27
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 82
; LENGTH: 460
; TYPE: PRT
; ORGANISM: Rattus No. US20020072089A1vegicus
US-09-782-980-82

Query Match 71.9%; Score 41; DB 3; Length 460;
Best Local Similarity 75.0%; Pred. No. 6.6e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 GRCMSCCR 9
||| |||
Db 257 GRCCRCCR 264

RESULT 41
US-09-884-430-6
; Sequence 6, Application US/09884430
; Patent No. US20020151046A1
; GENERAL INFORMATION:
; APPLICANT: Glucksmann, Maria Alexandra
; APPLICANT: Santiago, Immaculada Silos
; TITLE OF INVENTION: 52871, A NOVEL HUMAN G PROTEIN COUPLED
; TITLE OF INVENTION: RECEPTOR AND USES THEREOF
; FILE REFERENCE: MNI-165
; CURRENT APPLICATION NUMBER: US/09/884,430
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: USSN 60/212,331
; PRIOR FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: USSN 60/269,758
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 460
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-09-884-430-6

Query Match 71.9%; Score 41; DB 3; Length 460;
Best Local Similarity 75.0%; Pred. No. 6.6e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Qy          2 GRCMSCCR 9
              ||| |||
Db        257 GRCCRCCR 264


RESULT 42
US-09-826-509-513
; Sequence 513, Application US/09826509
; Publication No. US20030204073A1
; GENERAL INFORMATION:
;  APPLICANT: Lehmann-Bruinsma, Karin
;  APPLICANT:  Liaw, Chen W.
;  APPLICANT:  Lin, I-Lin
;  TITLE OF INVENTION: No. US20030204073A1-Endogenous, Constitutively Activated Known G
;  TITLE OF INVENTION:  Protein-Coupled Receptors
;  FILE REFERENCE: AREN-207
;  CURRENT APPLICATION NUMBER: US/09/826,509
;  CURRENT FILING DATE:  2001-04-05
;  PRIOR APPLICATION NUMBER: 60/195,747
;  PRIOR FILING DATE: 2000-04-07
;  PRIOR APPLICATION NUMBER: 09/170,496
;  PRIOR FILING DATE: 1998-10-13
;  NUMBER OF SEQ ID NOS: 589
;  SOFTWARE: PatentIn Version 2.1
; SEQ ID NO 513
;   LENGTH: 460
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-826-509-513

  Query Match             71.9%;  Score 41;  DB 3;  Length 460;
  Best Local Similarity   75.0%;  Pred. No. 6.6e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 GRCMSCCR 9
              ||| |||
Db        257 GRCCRCCR 264


RESULT 43
US-10-225-567A-188
; Sequence 188, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
;  APPLICANT: LifeSpan Biosciences
;  APPLICANT:  Brown, Joseph P.
;  APPLICANT:  Burmer, Glenna C.
;  APPLICANT:  Roush, Christine L.
;  TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
;  FILE REFERENCE: 1920-4-4
;  CURRENT APPLICATION NUMBER: US/10/225,567A
;  CURRENT FILING DATE:  2001-12-19
;  PRIOR APPLICATION NUMBER: 60/257,144
;  PRIOR FILING DATE: 2000-12-19
;  NUMBER OF SEQ ID NOS: 2292
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 188
;   LENGTH: 460
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-225-567A-188

  Query Match             71.9%;  Score 41;  DB 4;  Length 460;
  Best Local Similarity   75.0%;  Pred. No. 6.6e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 GRCMSCCR 9
              ||| |||
Db        257 GRCCRCCR 264


RESULT 44
US-10-336-489-6
; Sequence 6, Application US/10336489
; Publication No. US20030119147A1
; GENERAL INFORMATION:
;  APPLICANT: Tsai, Fong-ying
;  TITLE OF INVENTION: NOVEL SLGP PROTEIN AND NUCLEIC ACID MOLECULE AND USES
;  TITLE OF INVENTION:  THEREFOR
;  FILE REFERENCE: MNI-057CP2
;  CURRENT APPLICATION NUMBER: US/10/336,489
;  CURRENT FILING DATE:  2003-01-02
;  PRIOR APPLICATION NUMBER: US/09/608,921
;  PRIOR FILING DATE: 2000-06-30
;  PRIOR APPLICATION NUMBER: USSN 09/163,821
;  PRIOR FILING DATE: 1998-09-30
;  PRIOR APPLICATION NUMBER: PCT/US99/22923
;  PRIOR FILING DATE: 1999-09-30
;  NUMBER OF SEQ ID NOS: 19
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
;   LENGTH: 460
;   TYPE: PRT
;   ORGANISM: Rattus norvegicus
US-10-336-489-6

  Query Match             71.9%;  Score 41;  DB 4;  Length 460;
  Best Local Similarity   75.0%;  Pred. No. 6.6e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 GRCMSCCR 9
              ||| |||
Db        257 GRCCRCCR 264


RESULT 45
US-10-423-543-93
; Sequence 93, Application US/10423543
; Publication No. US20040058355A1
; GENERAL INFORMATION:
;  APPLICANT: Millennium Pharmaceuticals, Inc.
;  APPLICANT:  Libermann, Rosana K.
;  APPLICANT:  Hunter, John J.
;  APPLICANT:  Meyers, Rachel E.
;  APPLICANT:  Rudolph-Owen, Laura A.
;  APPLICANT:  Curtis, Rory A.J.
;  APPLICANT:  Olandt, Peter J.
;  APPLICANT:  Tsai, Fong-Ying
;  APPLICANT:  Galvin, Katherine M.
;  APPLICANT:  Chun, Miyoung
;  APPLICANT:  Williamson, Mark J.
;  APPLICANT:  Silos-Santiago, Inmaculada
;  APPLICANT:  Bandaru, Rajasekhar
;  TITLE OF INVENTION: NOVEL 21910, 56634, 55053, 2504, 15977,
;  TITLE OF INVENTION:  14760, 25501, 17903, 3700, 21529, 26176, 26343, 56638,
;  TITLE OF INVENTION:  18610, 33217, 21967, h1983, m1983, 38555 OR 593 MOLECULES
;  TITLE OF INVENTION:  AND USES THEREFOR
;  FILE REFERENCE: MPI03-023OMNIM
;  CURRENT APPLICATION NUMBER: US/10/423,543
;  CURRENT FILING DATE:  2003-04-25
;  PRIOR APPLICATION NUMBER: US 10/278,036
;  PRIOR FILING DATE: 2002-10-22
;  PRIOR APPLICATION NUMBER: US 09/711,216
;  PRIOR FILING DATE: 2000-11-09
;  PRIOR APPLICATION NUMBER: US 60/205,447
;  PRIOR FILING DATE: 2000-05-19
;  PRIOR APPLICATION NUMBER: US 10/012,055
;  PRIOR FILING DATE: 2001-11-13
;  PRIOR APPLICATION NUMBER: US 60/248,325
;  PRIOR FILING DATE: 2000-11-14
;  PRIOR APPLICATION NUMBER: US 10/003,690
;  PRIOR FILING DATE: 2001-11-15
;  PRIOR APPLICATION NUMBER: US 60/248,893
;  PRIOR FILING DATE: 2000-11-15
;  PRIOR APPLICATION NUMBER: US 09/797,039
;  PRIOR FILING DATE: 2001-02-28
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;  PRIOR APPLICATION NUMBER: US 60/186,061
;  PRIOR FILING DATE: 2000-02-29
;  PRIOR APPLICATION NUMBER: US 10/217,168
;  PRIOR FILING DATE: 2002-08-12
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 119
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 93
;   LENGTH: 460
;   TYPE: PRT
;   ORGANISM: Rattus norvegicus
US-10-423-543-93

  Query Match           71.9%;  Score 41;  DB 4;  Length 460;
  Best Local Similarity  75.0%;  Pred. No. 6.6e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 GRCMSCCR 9
              |||  |||
Db        257 GRCCRCCR 264


RESULT 46
US-10-806-018-82
; Sequence 82, Application US/10806018
; Publication No. US20040176296A1
; GENERAL INFORMATION:
;  APPLICANT: Khodadoust, Mehran M.
;  APPLICANT:  MacBeth, Kyle J.
;  APPLICANT:  Busfield, Samantha J.
;  APPLICANT:  McCarthy, Sean A.
;  APPLICANT:  Holtzman, Douglas A.
;  APPLICANT:  Gu, Wei
;  APPLICANT:  White, David
;  APPLICANT:  Pan, Yang
;  TITLE OF INVENTION: NOVEL ITALY, LOR-2, STRIFE, TRASH, BDSF, LRSG, AND
;  TITLE OF INVENTION:  STMST PROTEIN AND NUCLEIC ACID MOLECULES AND USES
;  TITLE OF INVENTION:  THEREFOR
;  FILE REFERENCE: MNI-121CP
;  CURRENT APPLICATION NUMBER: US/10/806,018
;  CURRENT FILING DATE:  2004-03-22
;  PRIOR APPLICATION NUMBER: US/09/782,980
;  PRIOR FILING DATE: 2001-02-13
;  PRIOR APPLICATION NUMBER: PCT/US00/02125
;  PRIOR FILING DATE: 2000-01-27
;  PRIOR APPLICATION NUMBER: 09/448,076
;  PRIOR FILING DATE: 1999-11-23
;  PRIOR APPLICATION NUMBER: 09/276,400
;  PRIOR FILING DATE: 1999-03-25
;  PRIOR APPLICATION NUMBER: 60/117,580
;  PRIOR FILING DATE: 1999-01-27
;  PRIOR APPLICATION NUMBER: 09/014,195
;  PRIOR FILING DATE: 1998-01-27
;  PRIOR APPLICATION NUMBER: 09/014,348
;  PRIOR FILING DATE: 1998-01-27
;  PRIOR APPLICATION NUMBER: 09/086,892
;  PRIOR FILING DATE: 1998-05-29
;  PRIOR APPLICATION NUMBER: 09/296,208
;  PRIOR FILING DATE: 1999-04-21
;  PRIOR APPLICATION NUMBER: 09/063,950
;  PRIOR FILING DATE: 1998-04-21
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 176
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 82
;   LENGTH: 460
;   TYPE: PRT
;   ORGANISM: Rattus Norvegicus
US-10-806-018-82

  Query Match           71.9%;  Score 41;  DB 4;  Length 460;
  Best Local Similarity  75.0%;  Pred. No. 6.6e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 GRCMSCCR 9
              |||  |||
Db        257 GRCCRCCR 264


RESULT 47
US-10-925-095-513
; Sequence 513, Application US/10925095
; Publication No. US20050019840A1
; GENERAL INFORMATION:
;  APPLICANT: Lehmann-Bruinsma, Karin
;  APPLICANT:  Liaw, Chen W.
;  APPLICANT:  Lin, I-Lin
;  TITLE OF INVENTION: Non-Endogenous, Constitutively Activated Known G
;  TITLE OF INVENTION:  Protein-Coupled Receptors
;  FILE REFERENCE: AREN-207
;  CURRENT APPLICATION NUMBER: US/10/925,095
;  CURRENT FILING DATE:  2004-08-24
;  PRIOR APPLICATION NUMBER: US/09/826,509
;  PRIOR FILING DATE: 2001-04-05
;  PRIOR APPLICATION NUMBER: 60/195,747
;  PRIOR FILING DATE: 2000-04-07
;  PRIOR APPLICATION NUMBER: 09/170,496
;  PRIOR FILING DATE: 1998-10-13
;  NUMBER OF SEQ ID NOS: 589
;  SOFTWARE: PatentIn Version 2.1
; SEQ ID NO 513
;   LENGTH: 460
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-925-095-513

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; Sequence 10, Application US/10029009
; Publication No. US20020164617A1
; GENERAL INFORMATION:
;  APPLICANT: Felsch, Jason S.
;  APPLICANT:  Annis, David Allen
;  APPLICANT:  Kalghatgi, Krishna
;  APPLICANT:  Nash, Huw M.
;  TITLE OF INVENTION: Affinity Selection-Based Screening of Hydrophobic Proteins
;  FILE REFERENCE: 111025.173 US2
;  CURRENT APPLICATION NUMBER: US/10/029,009
;  CURRENT FILING DATE:  2002-03-28
;  PRIOR APPLICATION NUMBER: US 60/258,970
;  PRIOR FILING DATE: 2000-12-29
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: FastSEQ for Windows Version 4.0
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US-10-029-009-10

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; Publication No. US20020164617A1
; GENERAL INFORMATION:
;  APPLICANT: Felsch, Jason S.
;  APPLICANT:  Annis, David Allen
;  APPLICANT:  Kalghatgi, Krishna
;  APPLICANT:  Nash, Huw M.
;  TITLE OF INVENTION: Affinity Selection-Based Screening of Hydrophobic Proteins
;  FILE REFERENCE: 111025.173 US2
;  CURRENT APPLICATION NUMBER: US/10/029,009
;  CURRENT FILING DATE:  2002-03-28
;  PRIOR APPLICATION NUMBER: US 60/258,970
;  PRIOR FILING DATE: 2000-12-29
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US-10-029-009-22

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; Sequence 36259, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
;  APPLICANT: Penn, Sharron G.
;  APPLICANT:  Rank, David R.
;  APPLICANT:  Hanzel, David K.
;  APPLICANT:  Chen, Wensheng
;  TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
;  TITLE OF INVENTION:  GENE EXPRESSION ANALYSIS BY MICROARRAY
;  FILE REFERENCE: Aeomica-X-1
;  CURRENT APPLICATION NUMBER: US/09/864,761
;  CURRENT FILING DATE:  2001-05-23
;  PRIOR APPLICATION NUMBER: US 60/180,312
;  PRIOR FILING DATE: 2000-02-04
;  PRIOR APPLICATION NUMBER: US 60/207,456
;  PRIOR FILING DATE: 2000-05-26
;  PRIOR APPLICATION NUMBER: US 09/632,366
;  PRIOR FILING DATE: 2000-08-03
;  PRIOR APPLICATION NUMBER: GB 24263.6
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;  PRIOR APPLICATION NUMBER: US 60/236,359
;  PRIOR FILING DATE: 2000-09-27
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;  PRIOR APPLICATION NUMBER: US 60/234,687
;  PRIOR FILING DATE: 2000-09-21
;  PRIOR APPLICATION NUMBER: US 09/608,408
;  PRIOR FILING DATE: 2000-06-30
;  PRIOR APPLICATION NUMBER: US 09/774,203
;  PRIOR FILING DATE: 2001-01-29
;  NUMBER OF SEQ ID NOS: 49117
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US-09-864-761-36259

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OM protein - protein search, using sw model

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Post-processing: Minimum Match 0%
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Listing first 1000 summaries

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| 88 | 35 | 61.4 | 307 | 11 | US-11-040-595-19 | Sequence 19, Appl |
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| 156 | 33 | 57.9 | 52 | 11 | US-11-123-896-288 | Sequence 288, App |
| 157 | 33 | 57.9 | 69 | 11 | US-11-096-568A-20238 | Sequence 20238, A |
| 158 | 33 | 57.9 | 79 | 11 | US-11-096-568A-20237 | Sequence 20237, A |
| 159 | 33 | 57.9 | 82 | 11 | US-11-123-896-287 | Sequence 287, App |
| 160 | 33 | 57.9 | 85 | 9 | US-10-948-571-82 | Sequence 82, Appl |
| 161 | 33 | 57.9 | 85 | 11 | US-11-079-463-9667 | Sequence 9667, Ap |
| 162 | 33 | 57.9 | 87 | 11 | US-11-184-574-8 | Sequence 8, Appli |
| 163 | 33 | 57.9 | 92 | 11 | US-11-008-727-6 | Sequence 6, Appli |
| 164 | 33 | 57.9 | 92 | 11 | US-11-058-542-1 | Sequence 1, Appli |
| 165 | 33 | 57.9 | 92 | 11 | US-11-152-601-1 | Sequence 1, Appli |
| 166 | 33 | 57.9 | 92 | 11 | US-11-152-601-24 | Sequence 24, Appl |
| 167 | 33 | 57.9 | 92 | 11 | US-11-152-601-25 | Sequence 25, Appl |
| 168 | 33 | 57.9 | 92 | 11 | US-11-152-601-26 | Sequence 26, Appl |
| 169 | 33 | 57.9 | 92 | 11 | US-11-152-601-29 | Sequence 29, Appl |
| 170 | 33 | 57.9 | 92 | 11 | US-11-152-601-30 | Sequence 30, Appl |
| 171 | 33 | 57.9 | 92 | 11 | US-11-152-601-31 | Sequence 31, Appl |
| 172 | 33 | 57.9 | 92 | 11 | US-11-152-601-32 | Sequence 32, Appl |
| 173 | 33 | 57.9 | 92 | 11 | US-11-152-601-33 | Sequence 33, Appl |
| 174 | 33 | 57.9 | 92 | 11 | US-11-152-601-34 | Sequence 34, Appl |
| 175 | 33 | 57.9 | 92 | 11 | US-11-190-465A-1 | Sequence 1, Appli |
| 176 | 33 | 57.9 | 92 | 11 | US-11-190-465A-45 | Sequence 45, Appl |
| 177 | 33 | 57.9 | 95 | 11 | US-11-152-601-12 | Sequence 12, Appl |
| 178 | 33 | 57.9 | 95 | 11 | US-11-152-601-13 | Sequence 13, Appl |
| 179 | 33 | 57.9 | 96 | 11 | US-11-152-601-2 | Sequence 2, Appli |
| 180 | 33 | 57.9 | 96 | 11 | US-11-152-601-3 | Sequence 3, Appli |
| 181 | 33 | 57.9 | 96 | 11 | US-11-152-601-4 | Sequence 4, Appli |
| 182 | 33 | 57.9 | 96 | 11 | US-11-152-601-6 | Sequence 6, Appli |
| 183 | 33 | 57.9 | 96 | 11 | US-11-190-465A-44 | Sequence 44, Appl |
| 184 | 33 | 57.9 | 96 | 11 | US-11-190-465A-46 | Sequence 46, Appl |
| 185 | 33 | 57.9 | 96 | 11 | US-11-190-465A-47 | Sequence 47, Appl |
| 186 | 33 | 57.9 | 96 | 11 | US-11-190-465A-48 | Sequence 48, Appl |
| 187 | 33 | 57.9 | 96 | 11 | US-11-190-465A-49 | Sequence 49, Appl |
| 188 | 33 | 57.9 | 96 | 11 | US-11-190-465A-50 | Sequence 50, Appl |
| 189 | 33 | 57.9 | 96 | 11 | US-11-190-465A-52 | Sequence 52, Appl |
| 190 | 33 | 57.9 | 96 | 11 | US-11-190-465A-53 | Sequence 53, Appl |
| 191 | 33 | 57.9 | 96 | 11 | US-11-190-465A-54 | Sequence 54, Appl |
| 192 | 33 | 57.9 | 96 | 11 | US-11-190-465A-55 | Sequence 55, Appl |
| 193 | 33 | 57.9 | 96 | 11 | US-11-190-465A-56 | Sequence 56, Appl |
| 194 | 33 | 57.9 | 116 | 9 | US-10-821-234-1625 | Sequence 1625, Ap |
| 195 | 33 | 57.9 | 116 | 10 | US-11-183-218-12 | Sequence 12, Appl |
| 196 | 33 | 57.9 | 116 | 10 | US-11-183-218-70 | Sequence 70, Appl |
| 197 | 33 | 57.9 | 116 | 11 | US-11-183-205-12 | Sequence 12, Appl |
| 198 | 33 | 57.9 | 116 | 11 | US-11-219-339-2 | Sequence 2, Appli |
| 199 | 33 | 57.9 | 141 | 9 | US-10-982-145-72 | Sequence 72, Appl |
| 200 | 33 | 57.9 | 141 | 9 | US-10-982-145-73 | Sequence 73, Appl |
| 201 | 33 | 57.9 | 155 | 9 | US-10-530-253-23 | Sequence 23, Appl |
| 202 | 33 | 57.9 | 158 | 9 | US-10-530-253-20 | Sequence 20, Appl |
| 203 | 33 | 57.9 | 158 | 9 | US-10-530-253-26 | Sequence 26, Appl |
| 204 | 33 | 57.9 | 192 | 11 | US-11-079-463-5804 | Sequence 5804, Ap |
| 205 | 33 | 57.9 | 231 | 11 | US-11-132-285-61 | Sequence 61, Appl |
| 206 | 33 | 57.9 | 237 | 11 | US-11-152-601-48 | Sequence 48, Appl |
| 207 | 33 | 57.9 | 237 | 11 | US-11-152-601-49 | Sequence 49, Appl |
| 208 | 33 | 57.9 | 237 | 11 | US-11-152-601-50 | Sequence 50, Appl |
| 209 | 33 | 57.9 | 237 | 11 | US-11-152-601-51 | Sequence 51, Appl |
| 210 | 33 | 57.9 | 237 | 11 | US-11-152-601-52 | Sequence 52, Appl |
| 211 | 33 | 57.9 | 237 | 11 | US-11-152-601-53 | Sequence 53, Appl |
| 212 | 33 | 57.9 | 237 | 11 | US-11-152-601-54 | Sequence 54, Appl |
| 213 | 33 | 57.9 | 237 | 11 | US-11-152-601-55 | Sequence 55, Appl |
| 214 | 33 | 57.9 | 237 | 11 | US-11-152-601-56 | Sequence 56, Appl |
| 215 | 33 | 57.9 | 237 | 11 | US-11-152-601-57 | Sequence 57, Appl |
| 216 | 33 | 57.9 | 281 | 9 | US-10-131-826A-372 | Sequence 372, App |
| 217 | 33 | 57.9 | 281 | 9 | US-10-973-115B-372 | Sequence 372, App |
| 218 | 33 | 57.9 | 281 | 9 | US-10-137-873A-372 | Sequence 372, App |
| 219 | 33 | 57.9 | 281 | 9 | US-10-152-370-372 | Sequence 372, App |
| 220 | 33 | 57.9 | 281 | 11 | US-11-258-647-3 | Sequence 3, Appli |
| 221 | 33 | 57.9 | 281 | 11 | US-11-290-153-372 | Sequence 372, App |
| 222 | 33 | 57.9 | 281 | 11 | US-11-264-096-2267 | Sequence 2267, Ap |
| 223 | 33 | 57.9 | 282 | 11 | US-11-079-463-5971 | Sequence 5971, Ap |
| 224 | 33 | 57.9 | 284 | 11 | US-11-170-268-40 | Sequence 40, Appl |
| 225 | 33 | 57.9 | 293 | 9 | US-10-131-826A-422 | Sequence 422, App |
| 226 | 33 | 57.9 | 293 | 9 | US-10-973-115B-422 | Sequence 422, App |
| 227 | 33 | 57.9 | 293 | 9 | US-10-216-161A-231 | Sequence 231, App |
| 228 | 33 | 57.9 | 293 | 9 | US-10-137-873A-422 | Sequence 422, App |
| 229 | 33 | 57.9 | 293 | 9 | US-10-152-370-422 | Sequence 422, App |
| 230 | 33 | 57.9 | 293 | 11 | US-11-290-153-422 | Sequence 422, App |
| 231 | 33 | 57.9 | 296 | 9 | US-10-510-386-58 | Sequence 58, Appl |
| 232 | 33 | 57.9 | 297 | 9 | US-10-967-527A-17 | Sequence 17, Appl |
| 233 | 33 | 57.9 | 325 | 9 | US-10-467-657-3026 | Sequence 3026, Ap |
| 234 | 33 | 57.9 | 341 | 11 | US-11-170-268-28 | Sequence 28, Appl |
| 235 | 33 | 57.9 | 341 | 11 | US-11-170-268-36 | Sequence 36, Appl |
| 236 | 33 | 57.9 | 366 | 11 | US-11-087-099-7455 | Sequence 7455, Ap |
| 237 | 33 | 57.9 | 374 | 11 | US-11-087-099-1572 | Sequence 1572, Ap |
| 238 | 33 | 57.9 | 382 | 11 | US-11-124-368A-173 | Sequence 173, App |
| 239 | 33 | 57.9 | 382 | 11 | US-11-124-368A-174 | Sequence 174, App |
| 240 | 33 | 57.9 | 382 | 11 | US-11-127-877-58 | Sequence 58, Appl |

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| 241 | 33 | 57.9 | 391 | 11 | US-11-096-568A-22324 | Sequence 22324, A |
| 242 | 33 | 57.9 | 427 | 11 | US-11-182-946-5 | Sequence 5, Appli |
| 243 | 33 | 57.9 | 427 | 11 | US-11-185-878-4 | Sequence 4, Appli |
| 244 | 33 | 57.9 | 470 | 11 | US-11-008-727-20 | Sequence 20, Appl |
| 245 | 33 | 57.9 | 496 | 11 | US-11-188-298-12120 | Sequence 12120, A |
| 246 | 33 | 57.9 | 582 | 9 | US-10-763-712A-23 | Sequence 23, Appl |
| 247 | 33 | 57.9 | 582 | 9 | US-10-763-712A-101 | Sequence 101, App |
| 248 | 33 | 57.9 | 759 | 11 | US-11-045-004-695 | Sequence 695, App |
| 249 | 33 | 57.9 | 833 | 11 | US-11-159-902-2 | Sequence 2, Appli |
| 250 | 33 | 57.9 | 961 | 11 | US-11-096-568A-14789 | Sequence 14789, A |
| 251 | 33 | 57.9 | 1094 | 11 | US-11-096-568A-14788 | Sequence 14788, A |
| 252 | 33 | 57.9 | 1165 | 11 | US-11-142-700-8 | Sequence 8, Appli |
| 253 | 33 | 57.9 | 1165 | 11 | US-11-096-568A-14787 | Sequence 14787, A |
| 254 | 32.5 | 57.0 | 38 | 11 | US-11-027-111-1 | Sequence 1, Appli |
| 255 | 32.5 | 57.0 | 38 | 11 | US-11-027-111-2 | Sequence 2, Appli |
| 256 | 32.5 | 57.0 | 348 | 11 | US-11-188-298-2232 | Sequence 2232, Ap |
| 257 | 32 | 56.1 | 8 | 11 | US-11-129-741-4105 | Sequence 4105, Ap |
| 258 | 32 | 56.1 | 10 | 9 | US-10-530-061-514 | Sequence 514, App |
| 259 | 32 | 56.1 | 10 | 9 | US-10-530-061-557 | Sequence 557, App |
| 260 | 32 | 56.1 | 38 | 9 | US-10-971-559-37 | Sequence 37, Appl |
| 261 | 32 | 56.1 | 39 | 9 | US-10-895-861-93 | Sequence 93, Appl |
| 262 | 32 | 56.1 | 39 | 9 | US-10-895-861-95 | Sequence 95, Appl |
| 263 | 32 | 56.1 | 45 | 9 | US-10-895-861-50 | Sequence 50, Appl |
| 264 | 32 | 56.1 | 45 | 9 | US-10-895-861-61 | Sequence 61, Appl |
| 265 | 32 | 56.1 | 45 | 9 | US-10-895-861-62 | Sequence 62, Appl |
| 266 | 32 | 56.1 | 48 | 9 | US-10-967-527A-20 | Sequence 20, Appl |
| 267 | 32 | 56.1 | 86 | 11 | US-11-096-568A-1385 | Sequence 1385, Ap |
| 268 | 32 | 56.1 | 89 | 9 | US-10-467-657-5016 | Sequence 5016, Ap |
| 269 | 32 | 56.1 | 92 | 11 | US-11-152-601-27 | Sequence 27, Appl |
| 270 | 32 | 56.1 | 92 | 11 | US-11-152-601-28 | Sequence 28, Appl |
| 271 | 32 | 56.1 | 100 | 11 | US-11-096-568A-11154 | Sequence 11154, A |
| 272 | 32 | 56.1 | 107 | 11 | US-11-096-568A-11152 | Sequence 11152, A |
| 273 | 32 | 56.1 | 113 | 11 | US-11-072-512-2080 | Sequence 2080, Ap |
| 274 | 32 | 56.1 | 114 | 11 | US-11-250-759-289 | Sequence 289, App |
| 275 | 32 | 56.1 | 115 | 11 | US-11-250-759-290 | Sequence 290, App |
| 276 | 32 | 56.1 | 137 | 11 | US-11-250-759-284 | Sequence 284, App |
| 277 | 32 | 56.1 | 141 | 9 | US-10-218-784-16 | Sequence 16, Appl |
| 278 | 32 | 56.1 | 141 | 9 | US-10-219-061-16 | Sequence 16, Appl |
| 279 | 32 | 56.1 | 141 | 9 | US-10-219-062-16 | Sequence 16, Appl |
| 280 | 32 | 56.1 | 141 | 9 | US-10-219-064-16 | Sequence 16, Appl |
| 281 | 32 | 56.1 | 141 | 9 | US-10-233-134-16 | Sequence 16, Appl |
| 282 | 32 | 56.1 | 141 | 11 | US-11-050-857-969 | Sequence 969, App |
| 283 | 32 | 56.1 | 141 | 11 | US-11-051-720-1708 | Sequence 1708, Ap |
| 284 | 32 | 56.1 | 141 | 11 | US-11-043-806-486 | Sequence 486, App |
| 285 | 32 | 56.1 | 141 | 11 | US-11-250-759-215 | Sequence 215, App |
| 286 | 32 | 56.1 | 143 | 9 | US-10-506-454-1077 | Sequence 1077, Ap |
| 287 | 32 | 56.1 | 148 | 11 | US-11-096-568A-4014 | Sequence 4014, Ap |
| 288 | 32 | 56.1 | 149 | 9 | US-10-530-253-17 | Sequence 17, Appl |
| 289 | 32 | 56.1 | 157 | 11 | US-11-050-857-972 | Sequence 972, App |
| 290 | 32 | 56.1 | 157 | 11 | US-11-043-806-489 | Sequence 489, App |
| 291 | 32 | 56.1 | 160 | 9 | US-10-846-172A-10 | Sequence 10, Appl |
| 292 | 32 | 56.1 | 160 | 11 | US-11-153-071-22 | Sequence 22, Appl |
| 293 | 32 | 56.1 | 164 | 11 | US-11-050-857-971 | Sequence 971, App |
| 294 | 32 | 56.1 | 164 | 11 | US-11-051-720-1710 | Sequence 1710, Ap |
| 295 | 32 | 56.1 | 164 | 11 | US-11-043-806-488 | Sequence 488, App |
| 296 | 32 | 56.1 | 165 | 11 | US-11-050-857-970 | Sequence 970, App |
| 297 | 32 | 56.1 | 165 | 11 | US-11-051-720-1709 | Sequence 1709, Ap |
| 298 | 32 | 56.1 | 165 | 11 | US-11-043-806-487 | Sequence 487, App |
| 299 | 32 | 56.1 | 172 | 11 | US-11-225-903-4 | Sequence 4, Appli |
| 300 | 32 | 56.1 | 183 | 9 | US-10-467-657-6906 | Sequence 6906, Ap |
| 301 | 32 | 56.1 | 189 | 11 | US-11-096-568A-10669 | Sequence 10669, A |
| 302 | 32 | 56.1 | 189 | 11 | US-11-096-568A-26032 | Sequence 26032, A |
| 303 | 32 | 56.1 | 206 | 11 | US-11-079-463-5633 | Sequence 5633, Ap |
| 304 | 32 | 56.1 | 223 | 11 | US-11-096-568A-19101 | Sequence 19101, A |
| 305 | 32 | 56.1 | 229 | 11 | US-11-096-568A-10668 | Sequence 10668, A |
| 306 | 32 | 56.1 | 245 | 11 | US-11-200-992-9 | Sequence 9, Appli |
| 307 | 32 | 56.1 | 246 | 8 | US-10-505-928-414 | Sequence 414, App |
| 308 | 32 | 56.1 | 249 | 11 | US-11-264-096-335 | Sequence 335, App |
| 309 | 32 | 56.1 | 265 | 11 | US-11-069-473-9 | Sequence 9, Appli |
| 310 | 32 | 56.1 | 273 | 11 | US-11-070-080-19 | Sequence 19, Appl |
| 311 | 32 | 56.1 | 285 | 11 | US-11-087-099-3152 | Sequence 3152, Ap |
| 312 | 32 | 56.1 | 292 | 9 | US-10-967-527A-19 | Sequence 19, Appl |
| 313 | 32 | 56.1 | 293 | 9 | US-10-742-634-7 | Sequence 7, Appli |
| 314 | 32 | 56.1 | 293 | 11 | US-11-221-849-2 | Sequence 2, Appli |
| 315 | 32 | 56.1 | 293 | 11 | US-11-242-294-2 | Sequence 2, Appli |
| 316 | 32 | 56.1 | 293 | 11 | US-11-200-992-6 | Sequence 6, Appli |
| 317 | 32 | 56.1 | 293 | 11 | US-11-069-473-2 | Sequence 2, Appli |
| 318 | 32 | 56.1 | 298 | 11 | US-11-096-568A-19100 | Sequence 19100, A |
| 319 | 32 | 56.1 | 317 | 9 | US-10-954-468-43 | Sequence 43, Appl |
| 320 | 32 | 56.1 | 317 | 11 | US-11-155-114A-3 | Sequence 3, Appli |
| 321 | 32 | 56.1 | 321 | 9 | US-10-478-345-8 | Sequence 8, Appli |
| 322 | 32 | 56.1 | 321 | 9 | US-10-063-703-10 | Sequence 10, Appl |
| 323 | 32 | 56.1 | 321 | 11 | US-11-102-240-10 | Sequence 10, Appl |
| 324 | 32 | 56.1 | 321 | 11 | US-11-103-195-10 | Sequence 10, Appl |
| 325 | 32 | 56.1 | 332 | 11 | US-11-242-294-62 | Sequence 62, Appl |
| 326 | 32 | 56.1 | 344 | 11 | US-11-242-294-52 | Sequence 52, Appl |
| 327 | 32 | 56.1 | 344 | 11 | US-11-096-568A-23536 | Sequence 23536, A |
| 328 | 32 | 56.1 | 347 | 9 | US-10-467-657-2962 | Sequence 2962, Ap |
| 329 | 32 | 56.1 | 348 | 11 | US-11-242-294-54 | Sequence 54, Appl |
| 330 | 32 | 56.1 | 348 | 11 | US-11-087-099-737 | Sequence 737, App |
| 331 | 32 | 56.1 | 348 | 11 | US-11-188-298-11737 | Sequence 11737, A |
| 332 | 32 | 56.1 | 348 | 11 | US-11-188-298-12193 | Sequence 12193, A |
| 333 | 32 | 56.1 | 348 | 11 | US-11-188-298-19437 | Sequence 19437, A |
| 334 | 32 | 56.1 | 350 | 11 | US-11-188-298-1427 | Sequence 1427, Ap |
| 335 | 32 | 56.1 | 350 | 11 | US-11-188-298-17678 | Sequence 17678, A |
| 336 | 32 | 56.1 | 350 | 11 | US-11-188-298-22365 | Sequence 22365, A |
| 337 | 32 | 56.1 | 351 | 11 | US-11-188-298-5596 | Sequence 5596, Ap |
| 338 | 32 | 56.1 | 351 | 11 | US-11-188-298-15027 | Sequence 15027, A |
| 339 | 32 | 56.1 | 351 | 11 | US-11-188-298-18724 | Sequence 18724, A |
| 340 | 32 | 56.1 | 353 | 11 | US-11-096-568A-28198 | Sequence 28198, A |
| 341 | 32 | 56.1 | 357 | 11 | US-11-242-294-56 | Sequence 56, Appl |
| 342 | 32 | 56.1 | 357 | 11 | US-11-217-919-4 | Sequence 4, Appli |
| 343 | 32 | 56.1 | 361 | 11 | US-11-096-568A-31792 | Sequence 31792, A |
| 344 | 32 | 56.1 | 371 | 11 | US-11-096-568A-31791 | Sequence 31791, A |
| 345 | 32 | 56.1 | 371 | 11 | US-11-188-298-14221 | Sequence 14221, A |
| 346 | 32 | 56.1 | 371 | 11 | US-11-188-298-14893 | Sequence 14893, A |
| 347 | 32 | 56.1 | 374 | 11 | US-11-087-099-7439 | Sequence 7439, Ap |
| 348 | 32 | 56.1 | 374 | 11 | US-11-188-298-4758 | Sequence 4758, Ap |
| 349 | 32 | 56.1 | 374 | 11 | US-11-188-298-6825 | Sequence 6825, Ap |
| 350 | 32 | 56.1 | 375 | 11 | US-11-188-298-3275 | Sequence 3275, Ap |
| 351 | 32 | 56.1 | 375 | 11 | US-11-188-298-9458 | Sequence 9458, Ap |
| 352 | 32 | 56.1 | 375 | 11 | US-11-188-298-17154 | Sequence 17154, A |
| 353 | 32 | 56.1 | 385 | 11 | US-11-188-298-15680 | Sequence 15680, A |
| 354 | 32 | 56.1 | 386 | 11 | US-11-096-568A-28197 | Sequence 28197, A |
| 355 | 32 | 56.1 | 392 | 11 | US-11-242-294-50 | Sequence 50, Appl |
| 356 | 32 | 56.1 | 425 | 11 | US-11-079-463-7158 | Sequence 7158, Ap |
| 357 | 32 | 56.1 | 434 | 11 | US-11-096-568A-28196 | Sequence 28196, A |
| 358 | 32 | 56.1 | 451 | 9 | US-10-509-773-12 | Sequence 12, Appl |
| 359 | 32 | 56.1 | 459 | 9 | US-10-763-712A-70 | Sequence 70, Appl |
| 360 | 32 | 56.1 | 499 | 11 | US-11-096-568A-30800 | Sequence 30800, A |
| 361 | 32 | 56.1 | 700 | 11 | US-11-096-568A-30799 | Sequence 30799, A |
| 362 | 32 | 56.1 | 1058 | 11 | US-11-096-568A-27717 | Sequence 27717, A |
| 363 | 32 | 56.1 | 1061 | 11 | US-11-096-568A-27716 | Sequence 27716, A |
| 364 | 32 | 56.1 | 1069 | 11 | US-11-072-175-170 | Sequence 170, App |
| 365 | 32 | 56.1 | 1093 | 9 | US-10-469-469-91 | Sequence 91, Appl |
| 366 | 32 | 56.1 | 1094 | 11 | US-11-096-568A-27715 | Sequence 27715, A |
| 367 | 32 | 56.1 | 1139 | 11 | US-11-098-686-10206 | Sequence 10206, A |
| 368 | 32 | 56.1 | 1503 | 11 | US-11-145-405B-5 | Sequence 5, Appli |
| 369 | 32 | 56.1 | 1886 | 9 | US-10-515-868-8 | Sequence 8, Appli |
| 370 | 32 | 56.1 | 2107 | 9 | US-10-995-561-827 | Sequence 827, App |
| 371 | 32 | 56.1 | 2480 | 9 | US-10-995-561-825 | Sequence 825, App |
| 372 | 32 | 56.1 | 3116 | 9 | US-10-995-561-826 | Sequence 826, App |
| 373 | 31 | 54.4 | 10 | 9 | US-10-530-061-583 | Sequence 583, App |
| 374 | 31 | 54.4 | 10 | 9 | US-10-530-061-602 | Sequence 602, App |
| 375 | 31 | 54.4 | 13 | 11 | US-11-064-774A-1200 | Sequence 1200, Ap |
| 376 | 31 | 54.4 | 13 | 11 | US-11-166-099-8 | Sequence 8, Appli |
| 377 | 31 | 54.4 | 13 | 11 | US-11-075-047A-111 | Sequence 111, App |
| 378 | 31 | 54.4 | 14 | 11 | US-11-153-880-8 | Sequence 8, Appli |
| 379 | 31 | 54.4 | 14 | 11 | US-11-211-724-6 | Sequence 6, Appli |
| 380 | 31 | 54.4 | 14 | 11 | US-11-233-119-8 | Sequence 8, Appli |
| 381 | 31 | 54.4 | 14 | 11 | US-11-249-422-8 | Sequence 8, Appli |
| 382 | 31 | 54.4 | 20 | 11 | US-11-217-995-22 | Sequence 22, Appl |
| 383 | 31 | 54.4 | 20 | 11 | US-11-139-041-363 | Sequence 363, App |
| 384 | 31 | 54.4 | 20 | 11 | US-11-139-041-364 | Sequence 364, App |
| 385 | 31 | 54.4 | 20 | 11 | US-11-139-041-365 | Sequence 365, App |
| 386 | 31 | 54.4 | 20 | 11 | US-11-139-041-370 | Sequence 370, App |

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| 387 | 31 | 54.4 | 20 | 11 | US-11-139-041-371 | Sequence 371, App |
| 388 | 31 | 54.4 | 20 | 11 | US-11-139-041-372 | Sequence 372, App |
| 389 | 31 | 54.4 | 25 | 11 | US-11-119-293-16 | Sequence 16, Appl |
| 390 | 31 | 54.4 | 25 | 11 | US-11-119-293-34 | Sequence 34, Appl |
| 391 | 31 | 54.4 | 27 | 9 | US-10-895-861-71 | Sequence 71, Appl |
| 392 | 31 | 54.4 | 33 | 11 | US-11-121-301-37 | Sequence 37, Appl |
| 393 | 31 | 54.4 | 33 | 11 | US-11-121-301-55 | Sequence 55, Appl |
| 394 | 31 | 54.4 | 33 | 11 | US-11-139-041-427 | Sequence 427, App |
| 395 | 31 | 54.4 | 33 | 11 | US-11-139-041-428 | Sequence 428, App |
| 396 | 31 | 54.4 | 34 | 9 | US-10-501-411A-315 | Sequence 315, App |
| 397 | 31 | 54.4 | 35 | 11 | US-11-121-301-8 | Sequence 8, Appli |
| 398 | 31 | 54.4 | 38 | 8 | US-10-516-079-7 | Sequence 7, Appli |
| 399 | 31 | 54.4 | 38 | 8 | US-10-516-079-17 | Sequence 17, Appl |
| 400 | 31 | 54.4 | 48 | 11 | US-11-096-568A-8676 | Sequence 8676, Ap |
| 401 | 31 | 54.4 | 59 | 9 | US-10-948-571-96 | Sequence 96, Appl |
| 402 | 31 | 54.4 | 66 | 11 | US-11-172-536-1 | Sequence 1, Appli |
| 403 | 31 | 54.4 | 75 | 11 | US-11-188-298-7518 | Sequence 7518, Ap |
| 404 | 31 | 54.4 | 79 | 11 | US-11-140-284-15 | Sequence 15, Appl |
| 405 | 31 | 54.4 | 83 | 11 | US-11-000-463-246 | Sequence 246, App |
| 406 | 31 | 54.4 | 84 | 11 | US-11-140-284-12 | Sequence 12, Appl |
| 407 | 31 | 54.4 | 84 | 11 | US-11-140-284-13 | Sequence 13, Appl |
| 408 | 31 | 54.4 | 84 | 11 | US-11-240-769-60 | Sequence 60, Appl |
| 409 | 31 | 54.4 | 87 | 11 | US-11-000-463-718 | Sequence 718, App |
| 410 | 31 | 54.4 | 87 | 11 | US-11-064-774A-1201 | Sequence 1201, Ap |
| 411 | 31 | 54.4 | 87 | 11 | US-11-064-774A-1203 | Sequence 1203, Ap |
| 412 | 31 | 54.4 | 87 | 11 | US-11-075-047A-110 | Sequence 110, App |
| 413 | 31 | 54.4 | 92 | 11 | US-11-188-298-10435 | Sequence 10435, A |
| 414 | 31 | 54.4 | 92 | 11 | US-11-188-298-11450 | Sequence 11450, A |
| 415 | 31 | 54.4 | 92 | 11 | US-11-188-298-13384 | Sequence 13384, A |
| 416 | 31 | 54.4 | 92 | 11 | US-11-188-298-19074 | Sequence 19074, A |
| 417 | 31 | 54.4 | 95 | 9 | US-10-131-826A-62 | Sequence 62, Appl |
| 418 | 31 | 54.4 | 95 | 9 | US-10-973-115B-62 | Sequence 62, Appl |
| 419 | 31 | 54.4 | 95 | 9 | US-10-137-873A-62 | Sequence 62, Appl |
| 420 | 31 | 54.4 | 95 | 9 | US-10-152-370-62 | Sequence 62, Appl |
| 421 | 31 | 54.4 | 95 | 11 | US-11-290-153-62 | Sequence 62, Appl |
| 422 | 31 | 54.4 | 97 | 11 | US-11-172-536-2 | Sequence 2, Appli |
| 423 | 31 | 54.4 | 107 | 11 | US-11-188-298-12105 | Sequence 12105, A |
| 424 | 31 | 54.4 | 129 | 11 | US-11-188-298-10208 | Sequence 10208, A |
| 425 | 31 | 54.4 | 147 | 9 | US-10-213-292-41 | Sequence 41, Appl |
| 426 | 31 | 54.4 | 148 | 11 | US-11-064-774A-121 | Sequence 121, App |
| 427 | 31 | 54.4 | 148 | 11 | US-11-075-400-16 | Sequence 16, Appl |
| 428 | 31 | 54.4 | 148 | 11 | US-11-075-047A-89 | Sequence 89, Appl |
| 429 | 31 | 54.4 | 149 | 11 | US-11-064-774A-115 | Sequence 115, App |
| 430 | 31 | 54.4 | 149 | 11 | US-11-075-400-4 | Sequence 4, Appli |
| 431 | 31 | 54.4 | 149 | 11 | US-11-226-005-5 | Sequence 5, Appli |
| 432 | 31 | 54.4 | 149 | 11 | US-11-075-047A-85 | Sequence 85, Appl |
| 433 | 31 | 54.4 | 150 | 11 | US-11-264-096-95 | Sequence 95, Appl |
| 434 | 31 | 54.4 | 152 | 11 | US-11-096-568A-30162 | Sequence 30162, A |
| 435 | 31 | 54.4 | 156 | 11 | US-11-096-568A-20111 | Sequence 20111, A |
| 436 | 31 | 54.4 | 158 | 11 | US-11-096-568A-28648 | Sequence 28648, A |
| 437 | 31 | 54.4 | 158 | 11 | US-11-225-903-6 | Sequence 6, Appli |
| 438 | 31 | 54.4 | 161 | 11 | US-11-129-076-5 | Sequence 5, Appli |
| 439 | 31 | 54.4 | 167 | 11 | US-11-264-096-499 | Sequence 499, App |
| 440 | 31 | 54.4 | 169 | 11 | US-11-096-568A-30161 | Sequence 30161, A |
| 441 | 31 | 54.4 | 170 | 8 | US-10-505-928-584 | Sequence 584, App |
| 442 | 31 | 54.4 | 174 | 11 | US-11-096-568A-20110 | Sequence 20110, A |
| 443 | 31 | 54.4 | 189 | 11 | US-11-096-568A-28647 | Sequence 28647, A |
| 444 | 31 | 54.4 | 190 | 11 | US-11-249-422-7 | Sequence 7, Appli |
| 445 | 31 | 54.4 | 196 | 8 | US-10-505-928-686 | Sequence 686, App |
| 446 | 31 | 54.4 | 196 | 11 | US-11-153-880-5 | Sequence 5, Appli |
| 447 | 31 | 54.4 | 196 | 11 | US-11-064-774A-125 | Sequence 125, App |
| 448 | 31 | 54.4 | 196 | 11 | US-11-211-724-3 | Sequence 3, Appli |
| 449 | 31 | 54.4 | 196 | 11 | US-11-129-076-2 | Sequence 2, Appli |
| 450 | 31 | 54.4 | 196 | 11 | US-11-076-427A-18 | Sequence 18, Appl |
| 451 | 31 | 54.4 | 196 | 11 | US-11-233-119-5 | Sequence 5, Appli |
| 452 | 31 | 54.4 | 196 | 11 | US-11-072-175-207 | Sequence 207, App |
| 453 | 31 | 54.4 | 196 | 11 | US-11-075-047A-99 | Sequence 99, Appl |
| 454 | 31 | 54.4 | 198 | 11 | US-11-096-568A-19433 | Sequence 19433, A |
| 455 | 31 | 54.4 | 204 | 11 | US-11-129-076-1 | Sequence 1, Appli |
| 456 | 31 | 54.4 | 205 | 9 | US-10-689-742-72 | Sequence 72, Appl |
| 457 | 31 | 54.4 | 211 | 11 | US-11-075-400-18 | Sequence 18, Appl |
| 458 | 31 | 54.4 | 211 | 11 | US-11-249-422-5 | Sequence 5, Appli |
| 459 | 31 | 54.4 | 215 | 9 | US-10-131-826A-4 | Sequence 4, Appli |
| 460 | 31 | 54.4 | 215 | 9 | US-10-973-115B-4 | Sequence 4, Appli |
| 461 | 31 | 54.4 | 215 | 9 | US-10-137-873A-4 | Sequence 4, Appli |
| 462 | 31 | 54.4 | 215 | 9 | US-10-152-370-4 | Sequence 4, Appli |
| 463 | 31 | 54.4 | 215 | 11 | US-11-290-153-4 | Sequence 4, Appli |
| 464 | 31 | 54.4 | 218 | 11 | US-11-229-769-209 | Sequence 209, App |
| 465 | 31 | 54.4 | 226 | 11 | US-11-096-568A-20109 | Sequence 20109, A |
| 466 | 31 | 54.4 | 231 | 9 | US-10-467-657-2996 | Sequence 2996, Ap |
| 467 | 31 | 54.4 | 233 | 9 | US-10-821-234-1322 | Sequence 1322, Ap |
| 468 | 31 | 54.4 | 234 | 9 | US-10-330-773-611 | Sequence 611, App |
| 469 | 31 | 54.4 | 235 | 11 | US-11-096-568A-19432 | Sequence 19432, A |
| 470 | 31 | 54.4 | 237 | 11 | US-11-096-568A-17264 | Sequence 17264, A |
| 471 | 31 | 54.4 | 241 | 11 | US-11-153-880-6 | Sequence 6, Appli |
| 472 | 31 | 54.4 | 241 | 11 | US-11-064-774A-127 | Sequence 127, App |
| 473 | 31 | 54.4 | 241 | 11 | US-11-075-400-20 | Sequence 20, Appl |
| 474 | 31 | 54.4 | 241 | 11 | US-11-211-724-4 | Sequence 4, Appli |
| 475 | 31 | 54.4 | 241 | 11 | US-11-149-462-4 | Sequence 4, Appli |
| 476 | 31 | 54.4 | 241 | 11 | US-11-129-076-3 | Sequence 3, Appli |
| 477 | 31 | 54.4 | 241 | 11 | US-11-129-076-4 | Sequence 4, Appli |
| 478 | 31 | 54.4 | 241 | 11 | US-11-076-427A-20 | Sequence 20, Appl |
| 479 | 31 | 54.4 | 241 | 11 | US-11-233-119-6 | Sequence 6, Appli |
| 480 | 31 | 54.4 | 241 | 11 | US-11-075-047A-101 | Sequence 101, App |
| 481 | 31 | 54.4 | 241 | 11 | US-11-207-847-3 | Sequence 3, Appli |
| 482 | 31 | 54.4 | 241 | 11 | US-11-249-422-6 | Sequence 6, Appli |
| 483 | 31 | 54.4 | 248 | 11 | US-11-156-516-36 | Sequence 36, Appl |
| 484 | 31 | 54.4 | 255 | 11 | US-11-096-568A-20660 | Sequence 20660, A |
| 485 | 31 | 54.4 | 262 | 9 | US-10-506-454-1182 | Sequence 1182, Ap |
| 486 | 31 | 54.4 | 292 | 11 | US-11-234-786-532 | Sequence 532, App |
| 487 | 31 | 54.4 | 292 | 11 | US-11-139-041-315 | Sequence 315, App |
| 488 | 31 | 54.4 | 292 | 11 | US-11-139-041-345 | Sequence 345, App |
| 489 | 31 | 54.4 | 292 | 11 | US-11-139-041-346 | Sequence 346, App |
| 490 | 31 | 54.4 | 296 | 11 | US-11-182-343-31 | Sequence 31, Appl |
| 491 | 31 | 54.4 | 296 | 11 | US-11-087-099-4293 | Sequence 4293, Ap |
| 492 | 31 | 54.4 | 305 | 11 | US-11-087-099-553 | Sequence 553, App |
| 493 | 31 | 54.4 | 305 | 11 | US-11-087-099-710 | Sequence 710, App |
| 494 | 31 | 54.4 | 305 | 11 | US-11-087-099-740 | Sequence 740, App |
| 495 | 31 | 54.4 | 305 | 11 | US-11-087-099-991 | Sequence 991, App |
| 496 | 31 | 54.4 | 305 | 11 | US-11-087-099-1225 | Sequence 1225, Ap |
| 497 | 31 | 54.4 | 305 | 11 | US-11-087-099-2461 | Sequence 2461, Ap |
| 498 | 31 | 54.4 | 305 | 11 | US-11-087-099-2973 | Sequence 2973, Ap |
| 499 | 31 | 54.4 | 305 | 11 | US-11-087-099-3203 | Sequence 3203, Ap |
| 500 | 31 | 54.4 | 305 | 11 | US-11-087-099-3456 | Sequence 3456, Ap |
| 501 | 31 | 54.4 | 305 | 11 | US-11-087-099-3956 | Sequence 3956, Ap |
| 502 | 31 | 54.4 | 305 | 11 | US-11-087-099-4188 | Sequence 4188, Ap |
| 503 | 31 | 54.4 | 305 | 11 | US-11-087-099-4945 | Sequence 4945, Ap |
| 504 | 31 | 54.4 | 305 | 11 | US-11-087-099-5178 | Sequence 5178, Ap |
| 505 | 31 | 54.4 | 305 | 11 | US-11-087-099-6671 | Sequence 6671, Ap |
| 506 | 31 | 54.4 | 305 | 11 | US-11-087-099-7608 | Sequence 7608, Ap |
| 507 | 31 | 54.4 | 305 | 11 | US-11-087-099-7843 | Sequence 7843, Ap |
| 508 | 31 | 54.4 | 305 | 11 | US-11-087-099-8064 | Sequence 8064, Ap |
| 509 | 31 | 54.4 | 305 | 11 | US-11-087-099-9094 | Sequence 9094, Ap |
| 510 | 31 | 54.4 | 305 | 11 | US-11-087-099-10111 | Sequence 10111, A |
| 511 | 31 | 54.4 | 305 | 11 | US-11-087-099-10316 | Sequence 10316, A |
| 512 | 31 | 54.4 | 311 | 11 | US-11-139-041-347 | Sequence 347, App |
| 513 | 31 | 54.4 | 313 | 11 | US-11-139-041-348 | Sequence 348, App |
| 514 | 31 | 54.4 | 317 | 11 | US-11-096-568A-25429 | Sequence 25429, A |
| 515 | 31 | 54.4 | 317 | 11 | US-11-188-298-16366 | Sequence 16366, A |
| 516 | 31 | 54.4 | 329 | 11 | US-11-096-568A-25428 | Sequence 25428, A |
| 517 | 31 | 54.4 | 331 | 11 | US-11-188-298-17282 | Sequence 17282, A |
| 518 | 31 | 54.4 | 338 | 11 | US-11-096-568A-25427 | Sequence 25427, A |
| 519 | 31 | 54.4 | 347 | 11 | US-11-024-959-331 | Sequence 331, App |
| 520 | 31 | 54.4 | 354 | 11 | US-11-087-099-11419 | Sequence 11419, A |
| 521 | 31 | 54.4 | 354 | 11 | US-11-188-298-8976 | Sequence 8976, Ap |
| 522 | 31 | 54.4 | 355 | 11 | US-11-188-298-12430 | Sequence 12430, A |
| 523 | 31 | 54.4 | 356 | 11 | US-11-188-298-2966 | Sequence 2966, Ap |
| 524 | 31 | 54.4 | 356 | 11 | US-11-188-298-9048 | Sequence 9048, Ap |
| 525 | 31 | 54.4 | 356 | 11 | US-11-188-298-11364 | Sequence 11364, A |
| 526 | 31 | 54.4 | 366 | 11 | US-11-087-099-6407 | Sequence 6407, Ap |
| 527 | 31 | 54.4 | 370 | 11 | US-11-087-099-11201 | Sequence 11201, A |
| 528 | 31 | 54.4 | 371 | 11 | US-11-087-099-4683 | Sequence 4683, Ap |
| 529 | 31 | 54.4 | 375 | 11 | US-11-087-099-4379 | Sequence 4379, Ap |
| 530 | 31 | 54.4 | 384 | 11 | US-11-139-041-326 | Sequence 326, App |
| 531 | 31 | 54.4 | 384 | 11 | US-11-139-041-332 | Sequence 332, App |
| 532 | 31 | 54.4 | 384 | 11 | US-11-139-041-333 | Sequence 333, App |

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| 533 | 31 | 54.4 | 384 | 11 | US-11-139-041-340 | Sequence 340, App |
| 534 | 31 | 54.4 | 399 | 11 | US-11-087-099-512 | Sequence 512, App |
| 535 | 31 | 54.4 | 401 | 11 | US-11-072-175-224 | Sequence 224, App |
| 536 | 31 | 54.4 | 416 | 11 | US-11-098-686-10405 | Sequence 10405, A |
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| 538 | 31 | 54.4 | 446 | 11 | US-11-087-099-11206 | Sequence 11206, A |
| 539 | 31 | 54.4 | 447 | 9 | US-10-467-657-4406 | Sequence 4406, Ap |
| 540 | 31 | 54.4 | 448 | 11 | US-11-096-568A-24243 | Sequence 24243, A |
| 541 | 31 | 54.4 | 482 | 9 | US-10-821-234-972 | Sequence 972, App |
| 542 | 31 | 54.4 | 485 | 11 | US-11-188-298-22078 | Sequence 22078, A |
| 543 | 31 | 54.4 | 494 | 9 | US-10-763-712A-71 | Sequence 71, Appl |
| 544 | 31 | 54.4 | 494 | 9 | US-10-763-712A-111 | Sequence 111, App |
| 545 | 31 | 54.4 | 519 | 11 | US-11-188-298-10418 | Sequence 10418, A |
| 546 | 31 | 54.4 | 527 | 11 | US-11-240-341-44 | Sequence 44, Appl |
| 547 | 31 | 54.4 | 543 | 11 | US-11-096-568A-24242 | Sequence 24242, A |
| 548 | 31 | 54.4 | 574 | 9 | US-10-763-712A-1 | Sequence 1, Appli |
| 549 | 31 | 54.4 | 574 | 9 | US-10-763-712A-102 | Sequence 102, App |
| 550 | 31 | 54.4 | 585 | 11 | US-11-127-877-63 | Sequence 63, Appl |
| 551 | 31 | 54.4 | 602 | 11 | US-11-096-568A-30507 | Sequence 30507, A |
| 552 | 31 | 54.4 | 644 | 9 | US-10-763-712A-36 | Sequence 36, Appl |
| 553 | 31 | 54.4 | 692 | 8 | US-10-509-131-32 | Sequence 32, Appl |
| 554 | 31 | 54.4 | 701 | 11 | US-11-096-568A-30506 | Sequence 30506, A |
| 555 | 31 | 54.4 | 767 | 9 | US-10-784-004-740 | Sequence 740, App |
| 556 | 31 | 54.4 | 767 | 9 | US-10-784-004-1092 | Sequence 1092, Ap |
| 557 | 31 | 54.4 | 798 | 9 | US-10-784-004-422 | Sequence 422, App |
| 558 | 31 | 54.4 | 798 | 9 | US-10-784-004-946 | Sequence 946, App |
| 559 | 31 | 54.4 | 817 | 9 | US-10-784-004-706 | Sequence 706, App |
| 560 | 31 | 54.4 | 817 | 9 | US-10-784-004-1080 | Sequence 1080, Ap |
| 561 | 31 | 54.4 | 824 | 9 | US-10-784-004-385 | Sequence 385, App |
| 562 | 31 | 54.4 | 824 | 9 | US-10-784-004-934 | Sequence 934, App |
| 563 | 31 | 54.4 | 826 | 9 | US-10-821-234-1048 | Sequence 1048, Ap |
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| 566 | 31 | 54.4 | 995 | 11 | US-11-045-004-830 | Sequence 830, App |
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| 568 | 31 | 54.4 | 1151 | 11 | US-11-087-099-9496 | Sequence 9496, Ap |
| 569 | 31 | 54.4 | 1249 | 11 | US-11-126-022-25 | Sequence 25, Appl |
| 570 | 31 | 54.4 | 1249 | 11 | US-11-126-022-30 | Sequence 30, Appl |
| 571 | 31 | 54.4 | 1342 | 9 | US-10-770-726-63 | Sequence 63, Appl |
| 572 | 31 | 54.4 | 1342 | 11 | US-11-113-202-12 | Sequence 12, Appl |
| 573 | 31 | 54.4 | 1342 | 11 | US-11-113-202-14 | Sequence 14, Appl |
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| 575 | 31 | 54.4 | 1395 | 11 | US-11-096-568A-33181 | Sequence 33181, A |
| 576 | 31 | 54.4 | 1609 | 11 | US-11-072-175-185 | Sequence 185, App |
| 577 | 31 | 54.4 | 1697 | 11 | US-11-019-711-68 | Sequence 68, Appl |
| 578 | 31 | 54.4 | 1723 | 11 | US-11-019-711-18 | Sequence 18, Appl |
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| 580 | 31 | 54.4 | 1798 | 9 | US-10-995-561-1034 | Sequence 1034, Ap |
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| 585 | 31 | 54.4 | 3714 | 9 | US-10-995-561-1015 | Sequence 1015, Ap |
| 586 | 31 | 54.4 | 3717 | 9 | US-10-821-234-1076 | Sequence 1076, Ap |
| 587 | 30.5 | 53.5 | 34 | 11 | US-11-121-301-16 | Sequence 16, Appl |
| 588 | 30.5 | 53.5 | 38 | 9 | US-10-971-559-20 | Sequence 20, Appl |
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| 591 | 30 | 52.6 | 10 | 9 | US-10-530-061-593 | Sequence 593, App |
| 592 | 30 | 52.6 | 22 | 11 | US-11-119-293-13 | Sequence 13, Appl |
| 593 | 30 | 52.6 | 22 | 11 | US-11-119-293-18 | Sequence 18, Appl |
| 594 | 30 | 52.6 | 22 | 11 | US-11-119-293-20 | Sequence 20, Appl |
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| 597 | 30 | 52.6 | 38 | 8 | US-10-516-079-27 | Sequence 27, Appl |
| 598 | 30 | 52.6 | 41 | 9 | US-10-632-150-65 | Sequence 65, Appl |
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| 600 | 30 | 52.6 | 41 | 11 | US-11-073-457-65 | Sequence 65, Appl |
| 601 | 30 | 52.6 | 41 | 11 | US-11-073-460-65 | Sequence 65, Appl |
| 602 | 30 | 52.6 | 60 | 9 | US-10-895-861-33 | Sequence 33, Appl |
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| 605 | 30 | 52.6 | 61 | 8 | US-10-505-928-590 | Sequence 590, App |
| 606 | 30 | 52.6 | 61 | 8 | US-10-505-928-630 | Sequence 630, App |
| 607 | 30 | 52.6 | 61 | 8 | US-10-505-928-668 | Sequence 668, App |
| 608 | 30 | 52.6 | 61 | 8 | US-10-505-928-722 | Sequence 722, App |
| 609 | 30 | 52.6 | 61 | 8 | US-10-505-928-787 | Sequence 787, App |
| 610 | 30 | 52.6 | 61 | 11 | US-11-255-427-12 | Sequence 12, Appl |
| 611 | 30 | 52.6 | 61 | 11 | US-11-255-427-13 | Sequence 13, Appl |
| 612 | 30 | 52.6 | 61 | 11 | US-11-255-427-14 | Sequence 14, Appl |
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| 614 | 30 | 52.6 | 62 | 9 | US-10-475-075-254 | Sequence 254, App |
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| 620 | 30 | 52.6 | 72 | 11 | US-11-004-399-833 | Sequence 833, App |
| 621 | 30 | 52.6 | 73 | 11 | US-11-000-463-771 | Sequence 771, App |
| 622 | 30 | 52.6 | 80 | 11 | US-11-188-298-21181 | Sequence 21181, A |
| 623 | 30 | 52.6 | 82 | 11 | US-11-020-772-8 | Sequence 8, Appli |
| 624 | 30 | 52.6 | 82 | 11 | US-11-076-728-8 | Sequence 8, Appli |
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| 626 | 30 | 52.6 | 83 | 11 | US-11-096-568A-29552 | Sequence 29552, A |
| 627 | 30 | 52.6 | 85 | 11 | US-11-096-568A-12337 | Sequence 12337, A |
| 628 | 30 | 52.6 | 92 | 11 | US-11-000-463-380 | Sequence 380, App |
| 629 | 30 | 52.6 | 92 | 11 | US-11-000-463-852 | Sequence 852, App |
| 630 | 30 | 52.6 | 100 | 11 | US-11-188-298-1917 | Sequence 1917, Ap |
| 631 | 30 | 52.6 | 105 | 11 | US-11-087-099-7946 | Sequence 7946, Ap |
| 632 | 30 | 52.6 | 105 | 11 | US-11-188-298-16051 | Sequence 16051, A |
| 633 | 30 | 52.6 | 105 | 11 | US-11-188-298-18366 | Sequence 18366, A |
| 634 | 30 | 52.6 | 105 | 11 | US-11-264-096-230 | Sequence 230, App |
| 635 | 30 | 52.6 | 105 | 11 | US-11-264-096-232 | Sequence 232, App |
| 636 | 30 | 52.6 | 109 | 11 | US-11-096-568A-4538 | Sequence 4538, Ap |
| 637 | 30 | 52.6 | 118 | 11 | US-11-096-568A-12336 | Sequence 12336, A |
| 638 | 30 | 52.6 | 119 | 11 | US-11-096-568A-29577 | Sequence 29577, A |
| 639 | 30 | 52.6 | 122 | 11 | US-11-096-568A-22036 | Sequence 22036, A |
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| 641 | 30 | 52.6 | 126 | 11 | US-11-188-298-7143 | Sequence 7143, Ap |
| 642 | 30 | 52.6 | 129 | 11 | US-11-096-568A-4537 | Sequence 4537, Ap |
| 643 | 30 | 52.6 | 134 | 11 | US-11-096-568A-4045 | Sequence 4045, Ap |
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| 649 | 30 | 52.6 | 159 | 11 | US-11-153-071-8 | Sequence 8, Appli |
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| 651 | 30 | 52.6 | 161 | 11 | US-11-225-903-7 | Sequence 7, Appli |
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| 655 | 30 | 52.6 | 178 | 10 | US-11-106-014-34 | Sequence 34, Appl |
| 656 | 30 | 52.6 | 178 | 11 | US-11-073-457-34 | Sequence 34, Appl |
| 657 | 30 | 52.6 | 178 | 11 | US-11-073-460-34 | Sequence 34, Appl |
| 658 | 30 | 52.6 | 182 | 11 | US-11-096-568A-4536 | Sequence 4536, Ap |
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| 660 | 30 | 52.6 | 190 | 11 | US-11-096-568A-23996 | Sequence 23996, A |
| 661 | 30 | 52.6 | 192 | 11 | US-11-087-099-3974 | Sequence 3974, Ap |
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| 665 | 30 | 52.6 | 200 | 11 | US-11-096-568A-12119 | Sequence 12119, A |
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| 667 | 30 | 52.6 | 222 | 11 | US-11-087-099-8091 | Sequence 8091, Ap |
| 668 | 30 | 52.6 | 224 | 9 | US-10-942-698-11 | Sequence 11, Appl |
| 669 | 30 | 52.6 | 228 | 11 | US-11-096-568A-28555 | Sequence 28555, A |
| 670 | 30 | 52.6 | 228 | 11 | US-11-096-568A-29575 | Sequence 29575, A |
| 671 | 30 | 52.6 | 234 | 9 | US-10-644-807-440 | Sequence 440, App |
| 672 | 30 | 52.6 | 251 | 11 | US-11-188-298-2287 | Sequence 2287, Ap |
| 673 | 30 | 52.6 | 252 | 11 | US-11-096-568A-28554 | Sequence 28554, A |
| 674 | 30 | 52.6 | 260 | 11 | US-11-096-568A-824 | Sequence 824, App |
| 675 | 30 | 52.6 | 269 | 11 | US-11-072-512-3305 | Sequence 3305, Ap |
| 676 | 30 | 52.6 | 282 | 11 | US-11-096-568A-33089 | Sequence 33089, A |
| 677 | 30 | 52.6 | 291 | 11 | US-11-087-099-3591 | Sequence 3591, Ap |
| 678 | 30 | 52.6 | 310 | 11 | US-11-096-568A-33088 | Sequence 33088, A |

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| 679 | 30 | 52.6 | 314 | 11 | US-11-096-568A-33087 | Sequence 33087, A |
| 680 | 30 | 52.6 | 323 | 11 | US-11-188-298-601 | Sequence 601, App |
| 681 | 30 | 52.6 | 329 | 11 | US-11-040-595-17 | Sequence 17, Appl |
| 682 | 30 | 52.6 | 330 | 11 | US-11-045-004-2846 | Sequence 2846, Ap |
| 683 | 30 | 52.6 | 332 | 11 | US-11-096-568A-15689 | Sequence 15689, A |
| 684 | 30 | 52.6 | 336 | 11 | US-11-098-686-10825 | Sequence 10825, A |
| 685 | 30 | 52.6 | 341 | 11 | US-11-096-568A-15688 | Sequence 15688, A |
| 686 | 30 | 52.6 | 346 | 9 | US-10-878-556A-121 | Sequence 121, App |
| 687 | 30 | 52.6 | 346 | 11 | US-11-069-642-109 | Sequence 109, App |
| 688 | 30 | 52.6 | 346 | 11 | US-11-264-096-1839 | Sequence 1839, Ap |
| 689 | 30 | 52.6 | 347 | 11 | US-11-188-298-1145 | Sequence 1145, Ap |
| 690 | 30 | 52.6 | 347 | 11 | US-11-188-298-12059 | Sequence 12059, A |
| 691 | 30 | 52.6 | 348 | 11 | US-11-188-298-8715 | Sequence 8715, Ap |
| 692 | 30 | 52.6 | 353 | 11 | US-11-072-512-2052 | Sequence 2052, Ap |
| 693 | 30 | 52.6 | 357 | 9 | US-10-478-345-6 | Sequence 6, Appli |
| 694 | 30 | 52.6 | 357 | 11 | US-11-087-099-11474 | Sequence 11474, A |
| 695 | 30 | 52.6 | 357 | 11 | US-11-087-099-12365 | Sequence 12365, A |
| 696 | 30 | 52.6 | 358 | 11 | US-11-087-099-4568 | Sequence 4568, Ap |
| 697 | 30 | 52.6 | 359 | 9 | US-10-689-742-34 | Sequence 34, Appl |
| 698 | 30 | 52.6 | 364 | 11 | US-11-096-568A-5018 | Sequence 5018, Ap |
| 699 | 30 | 52.6 | 370 | 11 | US-11-264-096-1836 | Sequence 1836, Ap |
| 700 | 30 | 52.6 | 386 | 8 | US-10-505-928-702 | Sequence 702, App |
| 701 | 30 | 52.6 | 386 | 8 | US-10-511-937-2930 | Sequence 2930, Ap |
| 702 | 30 | 52.6 | 387 | 11 | US-11-096-568A-13352 | Sequence 13352, A |
| 703 | 30 | 52.6 | 391 | 9 | US-10-995-561-892 | Sequence 892, App |
| 704 | 30 | 52.6 | 391 | 9 | US-10-995-561-893 | Sequence 893, App |
| 705 | 30 | 52.6 | 394 | 11 | US-11-087-099-11648 | Sequence 11648, A |
| 706 | 30 | 52.6 | 419 | 11 | US-11-096-568A-31364 | Sequence 31364, A |
| 707 | 30 | 52.6 | 419 | 11 | US-11-188-298-3323 | Sequence 3323, Ap |
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| 709 | 30 | 52.6 | 420 | 11 | US-11-172-740-756 | Sequence 756, App |
| 710 | 30 | 52.6 | 422 | 11 | US-11-188-298-17346 | Sequence 17346, A |
| 711 | 30 | 52.6 | 423 | 11 | US-11-188-298-5354 | Sequence 5354, Ap |
| 712 | 30 | 52.6 | 424 | 11 | US-11-096-568A-5017 | Sequence 5017, Ap |
| 713 | 30 | 52.6 | 425 | 11 | US-11-172-740-755 | Sequence 755, App |
| 714 | 30 | 52.6 | 425 | 11 | US-11-188-298-19449 | Sequence 19449, A |
| 715 | 30 | 52.6 | 427 | 11 | US-11-188-298-5220 | Sequence 5220, Ap |
| 716 | 30 | 52.6 | 428 | 11 | US-11-096-568A-15687 | Sequence 15687, A |
| 717 | 30 | 52.6 | 431 | 11 | US-11-188-298-18143 | Sequence 18143, A |
| 718 | 30 | 52.6 | 432 | 11 | US-11-172-740-757 | Sequence 757, App |
| 719 | 30 | 52.6 | 432 | 11 | US-11-188-298-12384 | Sequence 12384, A |
| 720 | 30 | 52.6 | 432 | 11 | US-11-188-298-13959 | Sequence 13959, A |
| 721 | 30 | 52.6 | 435 | 11 | US-11-096-568A-31363 | Sequence 31363, A |
| 722 | 30 | 52.6 | 437 | 11 | US-11-079-463-9492 | Sequence 9492, Ap |
| 723 | 30 | 52.6 | 438 | 11 | US-11-096-568A-5016 | Sequence 5016, Ap |
| 724 | 30 | 52.6 | 441 | 11 | US-11-188-298-14011 | Sequence 14011, A |
| 725 | 30 | 52.6 | 447 | 8 | US-10-505-928-329 | Sequence 329, App |
| 726 | 30 | 52.6 | 448 | 9 | US-10-967-527A-16 | Sequence 16, Appl |
| 727 | 30 | 52.6 | 448 | 11 | US-11-182-016-24 | Sequence 24, Appl |
| 728 | 30 | 52.6 | 451 | 9 | US-10-821-234-1491 | Sequence 1491, Ap |
| 729 | 30 | 52.6 | 480 | 11 | US-11-096-568A-13350 | Sequence 13350, A |
| 730 | 30 | 52.6 | 487 | 11 | US-11-147-047-50 | Sequence 50, Appl |
| 731 | 30 | 52.6 | 488 | 11 | US-11-188-298-7637 | Sequence 7637, Ap |
| 732 | 30 | 52.6 | 493 | 11 | US-11-079-463-8790 | Sequence 8790, Ap |
| 733 | 30 | 52.6 | 520 | 9 | US-10-763-712A-54 | Sequence 54, Appl |
| 734 | 30 | 52.6 | 532 | 11 | US-11-096-568A-31362 | Sequence 31362, A |
| 735 | 30 | 52.6 | 545 | 9 | US-10-718-264-2 | Sequence 2, Appli |
| 736 | 30 | 52.6 | 545 | 9 | US-10-718-264-2 | Sequence 2, Appli |
| 737 | 30 | 52.6 | 545 | 11 | US-11-176-667-2 | Sequence 2, Appli |
| 738 | 30 | 52.6 | 551 | 11 | US-11-143-984A-32 | Sequence 32, Appl |
| 739 | 30 | 52.6 | 566 | 11 | US-11-065-695-2 | Sequence 2, Appli |
| 740 | 30 | 52.6 | 568 | 11 | US-11-188-298-8765 | Sequence 8765, Ap |
| 741 | 30 | 52.6 | 574 | 9 | US-10-763-712A-6 | Sequence 6, Appli |
| 742 | 30 | 52.6 | 575 | 9 | US-10-980-388-46 | Sequence 46, Appl |
| 743 | 30 | 52.6 | 578 | 9 | US-10-763-712A-34 | Sequence 34, Appl |
| 744 | 30 | 52.6 | 601 | 11 | US-11-065-695-8 | Sequence 8, Appli |
| 745 | 30 | 52.6 | 606 | 9 | US-10-763-712A-9 | Sequence 9, Appli |
| 746 | 30 | 52.6 | 606 | 9 | US-10-763-712A-97 | Sequence 97, Appl |
| 747 | 30 | 52.6 | 607 | 9 | US-10-131-826A-102 | Sequence 102, App |
| 748 | 30 | 52.6 | 607 | 9 | US-10-973-115B-102 | Sequence 102, App |
| 749 | 30 | 52.6 | 607 | 9 | US-10-137-873A-102 | Sequence 102, App |
| 750 | 30 | 52.6 | 607 | 9 | US-10-152-370-102 | Sequence 102, App |
| 751 | 30 | 52.6 | 607 | 11 | US-11-290-153-102 | Sequence 102, App |
| 752 | 30 | 52.6 | 635 | 11 | US-11-188-298-7354 | Sequence 7354, Ap |
| 753 | 30 | 52.6 | 642 | 11 | US-11-188-298-4946 | Sequence 4946, Ap |
| 754 | 30 | 52.6 | 683 | 11 | US-11-065-695-6 | Sequence 6, Appli |
| 755 | 30 | 52.6 | 684 | 11 | US-11-090-617-696 | Sequence 696, App |
| 756 | 30 | 52.6 | 684 | 11 | US-11-072-512-2418 | Sequence 2418, Ap |
| 757 | 30 | 52.6 | 703 | 9 | US-10-821-234-1412 | Sequence 1412, Ap |
| 758 | 30 | 52.6 | 703 | 11 | US-11-065-695-4 | Sequence 4, Appli |
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| 760 | 30 | 52.6 | 830 | 9 | US-10-995-561-899 | Sequence 899, App |
| 761 | 30 | 52.6 | 964 | 11 | US-11-137-465-58 | Sequence 58, Appl |
| 762 | 30 | 52.6 | 965 | 11 | US-11-113-424-2 | Sequence 2, Appli |
| 763 | 30 | 52.6 | 965 | 11 | US-11-147-047-51 | Sequence 51, Appl |
| 764 | 30 | 52.6 | 1113 | 11 | US-11-067-811-4 | Sequence 4, Appli |
| 765 | 30 | 52.6 | 1125 | 11 | US-11-087-099-2396 | Sequence 2396, Ap |
| 766 | 30 | 52.6 | 1141 | 11 | US-11-217-995-36 | Sequence 36, Appl |
| 767 | 30 | 52.6 | 1255 | 9 | US-10-942-698-4 | Sequence 4, Appli |
| 768 | 30 | 52.6 | 1255 | 11 | US-11-022-562-235 | Sequence 235, App |
| 769 | 30 | 52.6 | 1255 | 11 | US-11-052-554A-265 | Sequence 265, App |
| 770 | 30 | 52.6 | 1255 | 11 | US-11-052-554A-266 | Sequence 266, App |
| 771 | 30 | 52.6 | 1255 | 11 | US-11-052-554A-267 | Sequence 267, App |
| 772 | 30 | 52.6 | 1255 | 11 | US-11-052-554A-268 | Sequence 268, App |
| 773 | 30 | 52.6 | 1255 | 11 | US-11-052-554A-269 | Sequence 269, App |
| 774 | 30 | 52.6 | 1255 | 11 | US-11-052-554A-270 | Sequence 270, App |
| 775 | 30 | 52.6 | 1255 | 11 | US-11-052-554A-271 | Sequence 271, App |
| 776 | 30 | 52.6 | 1255 | 11 | US-11-052-554A-272 | Sequence 272, App |
| 777 | 30 | 52.6 | 1255 | 11 | US-11-052-554A-273 | Sequence 273, App |
| 778 | 30 | 52.6 | 1255 | 11 | US-11-052-554A-274 | Sequence 274, App |
| 779 | 30 | 52.6 | 1255 | 11 | US-11-052-554A-275 | Sequence 275, App |
| 780 | 30 | 52.6 | 1255 | 11 | US-11-004-399-4026 | Sequence 4026, Ap |
| 781 | 30 | 52.6 | 1257 | 11 | US-11-004-399-1737 | Sequence 1737, Ap |
| 782 | 30 | 52.6 | 1279 | 9 | US-10-957-880-3 | Sequence 3, Appli |
| 783 | 30 | 52.6 | 1302 | 11 | US-11-090-439-42 | Sequence 42, Appl |
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| 785 | 30 | 52.6 | 1479 | 9 | US-10-204-639-4 | Sequence 4, Appli |
| 786 | 30 | 52.6 | 1686 | 11 | US-11-109-157A-1 | Sequence 1, Appli |
| 787 | 30 | 52.6 | 1686 | 11 | US-11-226-701-2 | Sequence 2, Appli |
| 788 | 30 | 52.6 | 1742 | 11 | US-11-182-016-23 | Sequence 23, Appl |
| 789 | 30 | 52.6 | 3712 | 11 | US-11-019-711-48 | Sequence 48, Appl |
| 790 | 30 | 52.6 | 3712 | 11 | US-11-019-711-51 | Sequence 51, Appl |
| 791 | 29.5 | 51.8 | 31 | 9 | US-10-517-565-8 | Sequence 8, Appli |
| 792 | 29.5 | 51.8 | 32 | 9 | US-10-504-838-8 | Sequence 8, Appli |
| 793 | 29.5 | 51.8 | 33 | 11 | US-11-121-301-75 | Sequence 75, Appl |
| 794 | 29.5 | 51.8 | 37 | 9 | US-10-971-559-19 | Sequence 19, Appl |
| 795 | 29.5 | 51.8 | 94 | 9 | US-10-504-838-7 | Sequence 7, Appli |
| 796 | 29.5 | 51.8 | 94 | 9 | US-10-517-565-7 | Sequence 7, Appli |
| 797 | 29.5 | 51.8 | 162 | 11 | US-11-072-512-3724 | Sequence 3724, Ap |
| 798 | 29.5 | 51.8 | 213 | 11 | US-11-096-568A-2102 | Sequence 2102, Ap |
| 799 | 29.5 | 51.8 | 335 | 8 | US-10-511-937-2469 | Sequence 2469, Ap |
| 800 | 29.5 | 51.8 | 350 | 9 | US-10-506-454-618 | Sequence 618, App |
| 801 | 29.5 | 51.8 | 608 | 11 | US-11-072-512-3337 | Sequence 3337, Ap |
| 802 | 29 | 50.9 | 9 | 11 | US-11-004-399-1977 | Sequence 1977, Ap |
| 803 | 29 | 50.9 | 10 | 9 | US-10-530-061-513 | Sequence 513, App |
| 804 | 29 | 50.9 | 10 | 9 | US-10-530-061-558 | Sequence 558, App |
| 805 | 29 | 50.9 | 10 | 9 | US-10-530-061-601 | Sequence 601, App |
| 806 | 29 | 50.9 | 15 | 11 | US-11-145-035-3 | Sequence 3, Appli |
| 807 | 29 | 50.9 | 17 | 9 | US-10-929-988-473 | Sequence 473, App |
| 808 | 29 | 50.9 | 19 | 11 | US-11-064-774A-1208 | Sequence 1208, Ap |
| 809 | 29 | 50.9 | 22 | 11 | US-11-119-293-11 | Sequence 11, Appl |
| 810 | 29 | 50.9 | 24 | 11 | US-11-119-293-22 | Sequence 22, Appl |
| 811 | 29 | 50.9 | 25 | 11 | US-11-119-293-27 | Sequence 27, Appl |
| 812 | 29 | 50.9 | 25 | 11 | US-11-119-293-33 | Sequence 33, Appl |
| 813 | 29 | 50.9 | 26 | 11 | US-11-119-293-24 | Sequence 24, Appl |
| 814 | 29 | 50.9 | 26 | 11 | US-11-119-293-26 | Sequence 26, Appl |
| 815 | 29 | 50.9 | 33 | 11 | US-11-121-301-34 | Sequence 34, Appl |
| 816 | 29 | 50.9 | 34 | 9 | US-10-971-559-15 | Sequence 15, Appl |
| 817 | 29 | 50.9 | 35 | 8 | US-10-516-079-37 | Sequence 37, Appl |
| 818 | 29 | 50.9 | 37 | 8 | US-10-516-079-35 | Sequence 35, Appl |
| 819 | 29 | 50.9 | 43 | 11 | US-11-123-896-369 | Sequence 369, App |
| 820 | 29 | 50.9 | 47 | 11 | US-11-123-896-372 | Sequence 372, App |
| 821 | 29 | 50.9 | 48 | 11 | US-11-027-111-8 | Sequence 8, Appli |
| 822 | 29 | 50.9 | 50 | 9 | US-10-971-559-29 | Sequence 29, Appl |
| 823 | 29 | 50.9 | 53 | 11 | US-11-052-554A-257 | Sequence 257, App |
| 824 | 29 | 50.9 | 53 | 11 | US-11-096-568A-13940 | Sequence 13940, A |

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| 825 | 29 | 50.9 | 66 | 11 | US-11-187-230-16 | Sequence 16, Appl |
| 826 | 29 | 50.9 | 67 | 11 | US-11-264-096-381 | Sequence 381, App |
| 827 | 29 | 50.9 | 69 | 9 | US-10-467-657-7596 | Sequence 7596, Ap |
| 828 | 29 | 50.9 | 74 | 11 | US-11-123-896-368 | Sequence 368, App |
| 829 | 29 | 50.9 | 74 | 11 | US-11-264-096-2079 | Sequence 2079, Ap |
| 830 | 29 | 50.9 | 76 | 11 | US-11-226-657-68 | Sequence 68, Appl |
| 831 | 29 | 50.9 | 77 | 11 | US-11-123-896-371 | Sequence 371, App |
| 832 | 29 | 50.9 | 78 | 9 | US-10-467-657-3038 | Sequence 3038, Ap |
| 833 | 29 | 50.9 | 78 | 11 | US-11-140-284-16 | Sequence 16, Appl |
| 834 | 29 | 50.9 | 79 | 11 | US-11-140-284-14 | Sequence 14, Appl |
| 835 | 29 | 50.9 | 81 | 11 | US-11-140-284-17 | Sequence 17, Appl |
| 836 | 29 | 50.9 | 81 | 11 | US-11-140-284-18 | Sequence 18, Appl |
| 837 | 29 | 50.9 | 91 | 11 | US-11-096-568A-13939 | Sequence 13939, A |
| 838 | 29 | 50.9 | 95 | 9 | US-10-506-454-1049 | Sequence 1049, Ap |
| 839 | 29 | 50.9 | 99 | 9 | US-10-523-503-2 | Sequence 2, Appli |
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| 841 | 29 | 50.9 | 100 | 11 | US-11-264-096-1892 | Sequence 1892, Ap |
| 842 | 29 | 50.9 | 102 | 11 | US-11-064-774A-177 | Sequence 177, App |
| 843 | 29 | 50.9 | 102 | 11 | US-11-064-774A-179 | Sequence 179, App |
| 844 | 29 | 50.9 | 102 | 11 | US-11-064-774A-185 | Sequence 185, App |
| 845 | 29 | 50.9 | 102 | 11 | US-11-064-774A-187 | Sequence 187, App |
| 846 | 29 | 50.9 | 102 | 11 | US-11-064-774A-193 | Sequence 193, App |
| 847 | 29 | 50.9 | 102 | 11 | US-11-064-774A-195 | Sequence 195, App |
| 848 | 29 | 50.9 | 102 | 11 | US-11-064-774A-201 | Sequence 201, App |
| 849 | 29 | 50.9 | 102 | 11 | US-11-064-774A-203 | Sequence 203, App |
| 850 | 29 | 50.9 | 102 | 11 | US-11-064-774A-209 | Sequence 209, App |
| 851 | 29 | 50.9 | 102 | 11 | US-11-064-774A-211 | Sequence 211, App |
| 852 | 29 | 50.9 | 102 | 11 | US-11-064-774A-217 | Sequence 217, App |
| 853 | 29 | 50.9 | 102 | 11 | US-11-064-774A-219 | Sequence 219, App |
| 854 | 29 | 50.9 | 102 | 11 | US-11-064-774A-225 | Sequence 225, App |
| 855 | 29 | 50.9 | 102 | 11 | US-11-064-774A-227 | Sequence 227, App |
| 856 | 29 | 50.9 | 102 | 11 | US-11-064-774A-233 | Sequence 233, App |
| 857 | 29 | 50.9 | 102 | 11 | US-11-064-774A-235 | Sequence 235, App |
| 858 | 29 | 50.9 | 102 | 11 | US-11-064-774A-241 | Sequence 241, App |
| 859 | 29 | 50.9 | 102 | 11 | US-11-064-774A-243 | Sequence 243, App |
| 860 | 29 | 50.9 | 102 | 11 | US-11-064-774A-249 | Sequence 249, App |
| 861 | 29 | 50.9 | 102 | 11 | US-11-064-774A-251 | Sequence 251, App |
| 862 | 29 | 50.9 | 102 | 11 | US-11-064-774A-257 | Sequence 257, App |
| 863 | 29 | 50.9 | 102 | 11 | US-11-064-774A-259 | Sequence 259, App |
| 864 | 29 | 50.9 | 102 | 11 | US-11-064-774A-265 | Sequence 265, App |
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| 866 | 29 | 50.9 | 102 | 11 | US-11-064-774A-273 | Sequence 273, App |
| 867 | 29 | 50.9 | 102 | 11 | US-11-064-774A-275 | Sequence 275, App |
| 868 | 29 | 50.9 | 102 | 11 | US-11-064-774A-281 | Sequence 281, App |
| 869 | 29 | 50.9 | 102 | 11 | US-11-064-774A-283 | Sequence 283, App |
| 870 | 29 | 50.9 | 102 | 11 | US-11-064-774A-289 | Sequence 289, App |
| 871 | 29 | 50.9 | 102 | 11 | US-11-064-774A-291 | Sequence 291, App |
| 872 | 29 | 50.9 | 102 | 11 | US-11-064-774A-297 | Sequence 297, App |
| 873 | 29 | 50.9 | 102 | 11 | US-11-064-774A-299 | Sequence 299, App |
| 874 | 29 | 50.9 | 102 | 11 | US-11-064-774A-305 | Sequence 305, App |
| 875 | 29 | 50.9 | 102 | 11 | US-11-064-774A-307 | Sequence 307, App |
| 876 | 29 | 50.9 | 102 | 11 | US-11-064-774A-313 | Sequence 313, App |
| 877 | 29 | 50.9 | 102 | 11 | US-11-064-774A-315 | Sequence 315, App |
| 878 | 29 | 50.9 | 102 | 11 | US-11-064-774A-321 | Sequence 321, App |
| 879 | 29 | 50.9 | 102 | 11 | US-11-064-774A-323 | Sequence 323, App |
| 880 | 29 | 50.9 | 102 | 11 | US-11-064-774A-329 | Sequence 329, App |
| 881 | 29 | 50.9 | 102 | 11 | US-11-064-774A-331 | Sequence 331, App |
| 882 | 29 | 50.9 | 102 | 11 | US-11-064-774A-337 | Sequence 337, App |
| 883 | 29 | 50.9 | 102 | 11 | US-11-064-774A-339 | Sequence 339, App |
| 884 | 29 | 50.9 | 102 | 11 | US-11-064-774A-345 | Sequence 345, App |
| 885 | 29 | 50.9 | 102 | 11 | US-11-064-774A-347 | Sequence 347, App |
| 886 | 29 | 50.9 | 102 | 11 | US-11-064-774A-353 | Sequence 353, App |
| 887 | 29 | 50.9 | 102 | 11 | US-11-064-774A-355 | Sequence 355, App |
| 888 | 29 | 50.9 | 102 | 11 | US-11-064-774A-361 | Sequence 361, App |
| 889 | 29 | 50.9 | 102 | 11 | US-11-064-774A-363 | Sequence 363, App |
| 890 | 29 | 50.9 | 102 | 11 | US-11-064-774A-369 | Sequence 369, App |
| 891 | 29 | 50.9 | 102 | 11 | US-11-064-774A-371 | Sequence 371, App |
| 892 | 29 | 50.9 | 102 | 11 | US-11-064-774A-377 | Sequence 377, App |
| 893 | 29 | 50.9 | 102 | 11 | US-11-064-774A-379 | Sequence 379, App |
| 894 | 29 | 50.9 | 102 | 11 | US-11-064-774A-385 | Sequence 385, App |
| 895 | 29 | 50.9 | 102 | 11 | US-11-064-774A-387 | Sequence 387, App |
| 896 | 29 | 50.9 | 102 | 11 | US-11-064-774A-393 | Sequence 393, App |
| 897 | 29 | 50.9 | 102 | 11 | US-11-064-774A-395 | Sequence 395, App |
| 898 | 29 | 50.9 | 102 | 11 | US-11-064-774A-401 | Sequence 401, App |
| 899 | 29 | 50.9 | 102 | 11 | US-11-064-774A-403 | Sequence 403, App |
| 900 | 29 | 50.9 | 102 | 11 | US-11-064-774A-409 | Sequence 409, App |
| 901 | 29 | 50.9 | 102 | 11 | US-11-064-774A-411 | Sequence 411, App |
| 902 | 29 | 50.9 | 102 | 11 | US-11-064-774A-417 | Sequence 417, App |
| 903 | 29 | 50.9 | 102 | 11 | US-11-064-774A-419 | Sequence 419, App |
| 904 | 29 | 50.9 | 102 | 11 | US-11-064-774A-425 | Sequence 425, App |
| 905 | 29 | 50.9 | 102 | 11 | US-11-064-774A-427 | Sequence 427, App |
| 906 | 29 | 50.9 | 102 | 11 | US-11-064-774A-689 | Sequence 689, App |
| 907 | 29 | 50.9 | 102 | 11 | US-11-064-774A-691 | Sequence 691, App |
| 908 | 29 | 50.9 | 102 | 11 | US-11-064-774A-697 | Sequence 697, App |
| 909 | 29 | 50.9 | 102 | 11 | US-11-064-774A-699 | Sequence 699, App |
| 910 | 29 | 50.9 | 102 | 11 | US-11-064-774A-705 | Sequence 705, App |
| 911 | 29 | 50.9 | 102 | 11 | US-11-064-774A-707 | Sequence 707, App |
| 912 | 29 | 50.9 | 102 | 11 | US-11-064-774A-713 | Sequence 713, App |
| 913 | 29 | 50.9 | 102 | 11 | US-11-064-774A-715 | Sequence 715, App |
| 914 | 29 | 50.9 | 102 | 11 | US-11-064-774A-721 | Sequence 721, App |
| 915 | 29 | 50.9 | 102 | 11 | US-11-064-774A-723 | Sequence 723, App |
| 916 | 29 | 50.9 | 102 | 11 | US-11-064-774A-729 | Sequence 729, App |
| 917 | 29 | 50.9 | 102 | 11 | US-11-064-774A-731 | Sequence 731, App |
| 918 | 29 | 50.9 | 102 | 11 | US-11-064-774A-737 | Sequence 737, App |
| 919 | 29 | 50.9 | 102 | 11 | US-11-064-774A-739 | Sequence 739, App |
| 920 | 29 | 50.9 | 102 | 11 | US-11-064-774A-745 | Sequence 745, App |
| 921 | 29 | 50.9 | 102 | 11 | US-11-064-774A-747 | Sequence 747, App |
| 922 | 29 | 50.9 | 102 | 11 | US-11-064-774A-753 | Sequence 753, App |
| 923 | 29 | 50.9 | 102 | 11 | US-11-064-774A-755 | Sequence 755, App |
| 924 | 29 | 50.9 | 102 | 11 | US-11-064-774A-761 | Sequence 761, App |
| 925 | 29 | 50.9 | 102 | 11 | US-11-064-774A-763 | Sequence 763, App |
| 926 | 29 | 50.9 | 102 | 11 | US-11-064-774A-769 | Sequence 769, App |
| 927 | 29 | 50.9 | 102 | 11 | US-11-064-774A-771 | Sequence 771, App |
| 928 | 29 | 50.9 | 102 | 11 | US-11-064-774A-777 | Sequence 777, App |
| 929 | 29 | 50.9 | 102 | 11 | US-11-064-774A-779 | Sequence 779, App |
| 930 | 29 | 50.9 | 102 | 11 | US-11-064-774A-785 | Sequence 785, App |
| 931 | 29 | 50.9 | 102 | 11 | US-11-064-774A-787 | Sequence 787, App |
| 932 | 29 | 50.9 | 102 | 11 | US-11-064-774A-793 | Sequence 793, App |
| 933 | 29 | 50.9 | 102 | 11 | US-11-064-774A-795 | Sequence 795, App |
| 934 | 29 | 50.9 | 102 | 11 | US-11-064-774A-801 | Sequence 801, App |
| 935 | 29 | 50.9 | 102 | 11 | US-11-064-774A-803 | Sequence 803, App |
| 936 | 29 | 50.9 | 102 | 11 | US-11-064-774A-809 | Sequence 809, App |
| 937 | 29 | 50.9 | 102 | 11 | US-11-064-774A-811 | Sequence 811, App |
| 938 | 29 | 50.9 | 102 | 11 | US-11-064-774A-813 | Sequence 813, App |
| 939 | 29 | 50.9 | 102 | 11 | US-11-064-774A-817 | Sequence 817, App |
| 940 | 29 | 50.9 | 102 | 11 | US-11-064-774A-819 | Sequence 819, App |
| 941 | 29 | 50.9 | 102 | 11 | US-11-064-774A-825 | Sequence 825, App |
| 942 | 29 | 50.9 | 102 | 11 | US-11-064-774A-827 | Sequence 827, App |
| 943 | 29 | 50.9 | 102 | 11 | US-11-064-774A-833 | Sequence 833, App |
| 944 | 29 | 50.9 | 102 | 11 | US-11-064-774A-835 | Sequence 835, App |
| 945 | 29 | 50.9 | 102 | 11 | US-11-064-774A-841 | Sequence 841, App |
| 946 | 29 | 50.9 | 102 | 11 | US-11-064-774A-843 | Sequence 843, App |
| 947 | 29 | 50.9 | 102 | 11 | US-11-064-774A-849 | Sequence 849, App |
| 948 | 29 | 50.9 | 102 | 11 | US-11-064-774A-851 | Sequence 851, App |
| 949 | 29 | 50.9 | 102 | 11 | US-11-064-774A-857 | Sequence 857, App |
| 950 | 29 | 50.9 | 102 | 11 | US-11-064-774A-859 | Sequence 859, App |
| 951 | 29 | 50.9 | 102 | 11 | US-11-064-774A-865 | Sequence 865, App |
| 952 | 29 | 50.9 | 102 | 11 | US-11-064-774A-867 | Sequence 867, App |
| 953 | 29 | 50.9 | 102 | 11 | US-11-064-774A-873 | Sequence 873, App |
| 954 | 29 | 50.9 | 102 | 11 | US-11-064-774A-875 | Sequence 875, App |
| 955 | 29 | 50.9 | 102 | 11 | US-11-064-774A-881 | Sequence 881, App |
| 956 | 29 | 50.9 | 102 | 11 | US-11-064-774A-883 | Sequence 883, App |
| 957 | 29 | 50.9 | 102 | 11 | US-11-064-774A-889 | Sequence 889, App |
| 958 | 29 | 50.9 | 102 | 11 | US-11-064-774A-891 | Sequence 891, App |
| 959 | 29 | 50.9 | 102 | 11 | US-11-064-774A-897 | Sequence 897, App |
| 960 | 29 | 50.9 | 102 | 11 | US-11-064-774A-899 | Sequence 899, App |
| 961 | 29 | 50.9 | 102 | 11 | US-11-064-774A-905 | Sequence 905, App |
| 962 | 29 | 50.9 | 102 | 11 | US-11-064-774A-907 | Sequence 907, App |
| 963 | 29 | 50.9 | 102 | 11 | US-11-064-774A-913 | Sequence 913, App |
| 964 | 29 | 50.9 | 102 | 11 | US-11-064-774A-915 | Sequence 915, App |
| 965 | 29 | 50.9 | 102 | 11 | US-11-064-774A-921 | Sequence 921, App |
| 966 | 29 | 50.9 | 102 | 11 | US-11-064-774A-923 | Sequence 923, App |
| 967 | 29 | 50.9 | 102 | 11 | US-11-064-774A-929 | Sequence 929, App |
| 968 | 29 | 50.9 | 102 | 11 | US-11-064-774A-931 | Sequence 931, App |
| 969 | 29 | 50.9 | 102 | 11 | US-11-064-774A-937 | Sequence 937, App |
| 970 | 29 | 50.9 | 102 | 11 | US-11-064-774A-939 | Sequence 939, App |

| | | | | | | |
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| 971 | 29 | 50.9 | 102 | 11 | US-11-064-774A-1209 | Sequence 1209, Ap |
| 972 | 29 | 50.9 | 103 | 11 | US-11-064-774A-181 | Sequence 181, App |
| 973 | 29 | 50.9 | 103 | 11 | US-11-064-774A-183 | Sequence 183, App |
| 974 | 29 | 50.9 | 103 | 11 | US-11-064-774A-189 | Sequence 189, App |
| 975 | 29 | 50.9 | 103 | 11 | US-11-064-774A-191 | Sequence 191, App |
| 976 | 29 | 50.9 | 103 | 11 | US-11-064-774A-197 | Sequence 197, App |
| 977 | 29 | 50.9 | 103 | 11 | US-11-064-774A-199 | Sequence 199, App |
| 978 | 29 | 50.9 | 103 | 11 | US-11-064-774A-205 | Sequence 205, App |
| 979 | 29 | 50.9 | 103 | 11 | US-11-064-774A-207 | Sequence 207, App |
| 980 | 29 | 50.9 | 103 | 11 | US-11-064-774A-213 | Sequence 213, App |
| 981 | 29 | 50.9 | 103 | 11 | US-11-064-774A-215 | Sequence 215, App |
| 982 | 29 | 50.9 | 103 | 11 | US-11-064-774A-221 | Sequence 221, App |
| 983 | 29 | 50.9 | 103 | 11 | US-11-064-774A-223 | Sequence 223, App |
| 984 | 29 | 50.9 | 103 | 11 | US-11-064-774A-229 | Sequence 229, App |
| 985 | 29 | 50.9 | 103 | 11 | US-11-064-774A-231 | Sequence 231, App |
| 986 | 29 | 50.9 | 103 | 11 | US-11-064-774A-237 | Sequence 237, App |
| 987 | 29 | 50.9 | 103 | 11 | US-11-064-774A-239 | Sequence 239, App |
| 988 | 29 | 50.9 | 103 | 11 | US-11-064-774A-245 | Sequence 245, App |
| 989 | 29 | 50.9 | 103 | 11 | US-11-064-774A-247 | Sequence 247, App |
| 990 | 29 | 50.9 | 103 | 11 | US-11-064-774A-253 | Sequence 253, App |
| 991 | 29 | 50.9 | 103 | 11 | US-11-064-774A-255 | Sequence 255, App |
| 992 | 29 | 50.9 | 103 | 11 | US-11-064-774A-261 | Sequence 261, App |
| 993 | 29 | 50.9 | 103 | 11 | US-11-064-774A-263 | Sequence 263, App |
| 994 | 29 | 50.9 | 103 | 11 | US-11-064-774A-269 | Sequence 269, App |
| 995 | 29 | 50.9 | 103 | 11 | US-11-064-774A-271 | Sequence 271, App |
| 996 | 29 | 50.9 | 103 | 11 | US-11-064-774A-277 | Sequence 277, App |
| 997 | 29 | 50.9 | 103 | 11 | US-11-064-774A-279 | Sequence 279, App |
| 998 | 29 | 50.9 | 103 | 11 | US-11-064-774A-285 | Sequence 285, App |
| 999 | 29 | 50.9 | 103 | 11 | US-11-064-774A-287 | Sequence 287, App |
| 1000 | 29 | 50.9 | 103 | 11 | US-11-064-774A-293 | Sequence 293, App |

ALIGNMENTS

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RESULT 1
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-13

  Query Match            100.0%;  Score 57;  DB 9;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 0.097;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        133 TGRCMSCCR 141


RESULT 2
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
;  APPLICANT: HealthBanks Biotech CO. LTD.
;  TITLE OF INVENTION: Fusion protein for inhibiting cervcal cancer
;  FILE REFERENCE: P7819/0613
;  CURRENT APPLICATION NUMBER: US/11/206,138
;  CURRENT FILING DATE:  2005-08-18
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-11-206-138-3

  Query Match            100.0%;  Score 57;  DB 11;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        140 TGRCMSCCR 148


RESULT 3
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-1

  Query Match            100.0%;  Score 57;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.14;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        133 TGRCMSCCR 141


RESULT 4
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
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; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match 100.0%; Score 57; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGRCMSCCR 9
||||||||||
Db 133 TGRCMSCCR 141

RESULT 5
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-5

Query Match 100.0%; Score 57; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGRCMSCCR 9
||||||||||
Db 133 TGRCMSCCR 141

RESULT 6
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-7

Query Match 100.0%; Score 57; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGRCMSCCR 9
||||||||||
Db 230 TGRCMSCCR 238

RESULT 7
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-9

Query Match 100.0%; Score 57; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGRCMSCCR 9
||||||||||
Db 230 TGRCMSCCR 238

RESULT 8
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11

Query Match 100.0%; Score 57; DB 9; Length 248;

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  Best Local Similarity   100.0%;  Pred. No. 0.14;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        230 TGRCMSCCR 238


RESULT 9
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
;  APPLICANT: PANG, XIAOWU
;  TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
;  TITLE OF INVENTION:  RECOMBINANT REPLICON
;  FILE REFERENCE: 116620-003
;  CURRENT APPLICATION NUMBER: US/11/192,923A
;  CURRENT FILING DATE:  2005-07-29
;  PRIOR APPLICATION NUMBER: CN 03115272.4
;  PRIOR FILING DATE: 2003-01-30
;  PRIOR APPLICATION NUMBER: CN 03115273.2
;  PRIOR FILING DATE: 2003-01-30
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
;   LENGTH: 256
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-11-192-923A-2

  Query Match            100.0%;  Score 57;  DB 11;  Length 256;
  Best Local Similarity   100.0%;  Pred. No. 0.14;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||
Db        238 TGRCMSCCR 246


RESULT 10
US-10-530-061-512
; Sequence 512, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 512
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-512

  Query Match            94.7%;  Score 54;  DB 9;  Length 10;
  Best Local Similarity   88.9%;  Pred. No. 0.038;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              |||||||||:
Db          2 TGRCMSCCK 10


RESULT 11
US-10-530-061-511
; Sequence 511, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 511
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-511

  Query Match            91.2%;  Score 52;  DB 9;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.072;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 GRCMSCCR 9
              ||||||||
Db          3 GRCMSCCR 10


RESULT 12
US-10-530-253-18
; Sequence 18, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 35
US-10-530-253-18

  Query Match            75.4%;  Score 43;  DB 9;  Length 149;
  Best Local Similarity   100.0%;  Pred. No. 9.3;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSC 7
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Db        133 TGRCMSC 139


RESULT 13
US-09-978-360A-724
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; Sequence 724, Application US/09978360A
; Publication No. US20060009633A9
; GENERAL INFORMATION:
;  APPLICANT: Edwards, Jean-Baptiste Dumas Milne
;  APPLICANT:  Duclert, Aymeric
;  APPLICANT:  Bougueleret, Lydie
;  APPLICANT:  Jobert, Severin
;  APPLICANT:  Clusel, Catherine
;  TITLE OF INVENTION: Complementary DNA's Encoding Proteins with Signal Peptides
;  FILE REFERENCE: 56.US4.CIP
;  CURRENT APPLICATION NUMBER: US/09/978,360A
;  CURRENT FILING DATE:  2001-10-15
;  PRIOR APPLICATION NUMBER: US 60/066,677
;  PRIOR FILING DATE: 1997-11-13
;  PRIOR APPLICATION NUMBER: US 60/069,957
;  PRIOR FILING DATE: 1997-12-17
;  PRIOR APPLICATION NUMBER: US 60/074,121
;  PRIOR FILING DATE: 1998-02-09
;  PRIOR APPLICATION NUMBER: US 60/081,563
;  PRIOR FILING DATE: 1998-04-13
;  PRIOR APPLICATION NUMBER: US 60/096,116
;  PRIOR FILING DATE: 1998-08-10
;  PRIOR APPLICATION NUMBER: US 60/099,273
;  PRIOR FILING DATE: -09-04
;  PRIOR APPLICATION NUMBER: US 09/191,997
;  PRIOR FILING DATE: 1998-11-13
;  PRIOR APPLICATION NUMBER: US 09/215,435
;  PRIOR FILING DATE: 1998-12-17
;  PRIOR APPLICATION NUMBER: PCT/IB98/02122
;  PRIOR FILING DATE: 1998-12-17
;  PRIOR APPLICATION NUMBER: US 09/247,155
;  PRIOR FILING DATE: 1999-02-09
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 810
;  SOFTWARE: Patent.pm
; SEQ ID NO 724
;   LENGTH: 89
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SIGNAL
;   LOCATION: -16..-1
US-09-978-360A-724

  Query Match             71.9%;  Score 41;  DB 7;  Length 89;
  Best Local Similarity   77.8%;  Pred. No. 12;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              ||| | |||
Db         38 TGRRMQCCR 46


RESULT 14
US-10-530-253-16
; Sequence 16, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 31
US-10-530-253-16

  Query Match             68.4%;  Score 39;  DB 9;  Length 149;
  Best Local Similarity   66.7%;  Pred. No. 34;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCCR 9
              ||||::| |
Db        133 TGRCIACWR 141


RESULT 15
US-11-096-568A-10277
; Sequence 10277, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 10277
;   LENGTH: 245
;   TYPE: PRT
;   ORGANISM: Triticum aestivum
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(245)
;   OTHER INFORMATION: Ceres Seq. ID no. 13585450
US-11-096-568A-10277

  Query Match             68.4%;  Score 39;  DB 11;  Length 245;
  Best Local Similarity   62.5%;  Pred. No. 49;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 GRCMSCCR 9
              |||  ||:
Db         72 GRCCGCCK 79


RESULT 16
US-11-004-399-2378
; Sequence 2378, Application US/11004399
; Publication No. US20060053516A1
; GENERAL INFORMATION:
;  APPLICANT: Chye, Mee Lee
;  APPLICANT:  Li, Hong Ye
;  APPLICANT:  Ramalingam, Sathiskumar
;  APPLICANT:  Poon, Leo Lit Man
;  APPLICANT:  Peiris, Joseph Sriyal Malik
;  TITLE OF INVENTION: Genetically Modified Plants Comprising SARS-CoV Viral Nucleotide
;  TITLE OF INVENTION:  Sequences and Methods of Use Thereof For Immunization Against SA
;  FILE REFERENCE: 2587/73166/RDK
;  CURRENT APPLICATION NUMBER: US/11/004,399
;  CURRENT FILING DATE:  2004-12-03
;  PRIOR APPLICATION NUMBER: US 60/527,637
;  PRIOR FILING DATE: 2003-12-03
;  NUMBER OF SEQ ID NOS: 4043
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2378
;   LENGTH: 67
;   TYPE: PRT
;   ORGANISM: SARS-CoV Virus
US-11-004-399-2378

  Query Match             66.7%;  Score 38;  DB 11;  Length 67;
  Best Local Similarity   83.3%;  Pred. No. 27;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy          4 CMSCCR 9
              ||:|||
Db         53 CMNCCR 58


RESULT 17
US-10-644-807-200
; Sequence 200, Application US/10644807
; Publication No. US20060057582A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: 83 Human Secreted Proteins
;  FILE REFERENCE: PS735
;  CURRENT APPLICATION NUMBER: US/10/644,807
;  CURRENT FILING DATE:  2003-08-21
;  PRIOR APPLICATION NUMBER: PCT/US02/05064
;  PRIOR FILING DATE: 2002-02-21
;  PRIOR APPLICATION NUMBER: 60/270,658
;  PRIOR FILING DATE: 2001-02-23
;  PRIOR APPLICATION NUMBER: 60/304,444
;  PRIOR FILING DATE: 2001-07-12
;  NUMBER OF SEQ ID NOS: 445
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 200
;   LENGTH: 95
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-644-807-200

  Query Match             66.7%;  Score 38;  DB 9;  Length 95;
  Best Local Similarity   85.7%;  Pred. No. 35;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 RCMSCCR 9
              || ||||
Db         59 RCGSCCR 65


RESULT 18
US-10-644-807-283
; Sequence 283, Application US/10644807
; Publication No. US20060057582A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: 83 Human Secreted Proteins
;  FILE REFERENCE: PS735
;  CURRENT APPLICATION NUMBER: US/10/644,807
;  CURRENT FILING DATE:  2003-08-21
;  PRIOR APPLICATION NUMBER: PCT/US02/05064
;  PRIOR FILING DATE: 2002-02-21
;  PRIOR APPLICATION NUMBER: 60/270,658
;  PRIOR FILING DATE: 2001-02-23
;  PRIOR APPLICATION NUMBER: 60/304,444
;  PRIOR FILING DATE: 2001-07-12
;  NUMBER OF SEQ ID NOS: 445
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 283
;   LENGTH: 95
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (80)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-644-807-283

  Query Match             66.7%;  Score 38;  DB 9;  Length 95;
  Best Local Similarity   85.7%;  Pred. No. 35;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 RCMSCCR 9
              || ||||
Db         59 RCGSCCR 65


RESULT 19
US-11-096-568A-26773
; Sequence 26773, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 26773
;   LENGTH: 204
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(204)
;   OTHER INFORMATION: Ceres Seq. ID no. 13600327
US-11-096-568A-26773

  Query Match             66.7%;  Score 38;  DB 11;  Length 204;
  Best Local Similarity   83.3%;  Pred. No. 59;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 CMSCCR 9
              |:||||
Db        124 CLSCCR 129


RESULT 20
US-11-096-568A-1257
; Sequence 1257, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1257
;   LENGTH: 251
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(251)
;   OTHER INFORMATION: Ceres Seq. ID no. 13624031
US-11-096-568A-1257

  Query Match             66.7%;  Score 38;  DB 11;  Length 251;
  Best Local Similarity   83.3%;  Pred. No. 69;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 CMSCCR 9
              |:||||
Db        171 CLSCCR 176


RESULT 21
US-11-096-568A-1259
; Sequence 1259, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
```

; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1259
; LENGTH: 251
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(251)
; OTHER INFORMATION: Ceres Seq. ID no. 16625722
US-11-096-568A-1259

Query Match 66.7%; Score 38; DB 11; Length 251;
Best Local Similarity 83.3%; Pred. No. 69;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 4 CMSCCR 9
|:||||
Db 171 CLSCCR 176

RESULT 22
US-11-096-568A-1256
; Sequence 1256, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1256
; LENGTH: 280
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(280)
; OTHER INFORMATION: Ceres Seq. ID no. 13624030
US-11-096-568A-1256

Query Match 66.7%; Score 38; DB 11; Length 280;
Best Local Similarity 83.3%; Pred. No. 74;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 4 CMSCCR 9
|:||||
Db 200 CLSCCR 205

RESULT 23
US-11-018-868-136
; Sequence 136, Application US/11018868
; Publication No. US20060034871A1
; GENERAL INFORMATION:
; APPLICANT: Chiron Corporation
; APPLICANT: Grandi, Guido
; APPLICANT: Ratti, Guilio
; APPLICANT: Bonci, Alessandro
; APPLICANT: Finco, Oretta
; TITLE OF INVENTION: Immunogenic Compositions for Chlamydia trachomatis
; FILE REFERENCE: 002441.00099 (PP23152.001)
; CURRENT APPLICATION NUMBER: US/11/018,868
; CURRENT FILING DATE: 2004-12-22
; NUMBER OF SEQ ID NOS: 186
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 136
; LENGTH: 591
; TYPE: PRT
; ORGANISM: Chlamydia trachomatis
US-11-018-868-136

Query Match 66.7%; Score 38; DB 11; Length 591;
Best Local Similarity 71.4%; Pred. No. 1.3e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 3 RCMSCCR 9
|| |||:
Db 392 RCFSCCK 398

RESULT 24
US-10-895-861-51
; Sequence 51, Application US/10895861
; Publication No. US20060019368A1
; GENERAL INFORMATION:
; APPLICANT: BALLINGER, Marcus
; APPLICANT: RANDAL, Michael L.
; TITLE OF INVENTION: CONSTRUCTS FOR HOMOGENOUSLY PROCESSED
; TITLE OF INVENTION: PREPARATIONS OF BETA SITE APP-CLEAVING ENZYME
; FILE REFERENCE: 39750-0027US
; CURRENT APPLICATION NUMBER: US/10/895,861
; CURRENT FILING DATE: 2004-07-20
; PRIOR APPLICATION NUMBER: US 60/430,984
; PRIOR FILING DATE: 2002-12-04
; PRIOR APPLICATION NUMBER: US 10/726,967
; PRIOR FILING DATE: 2003-12-02
; PRIOR APPLICATION NUMBER: PCT to be assigned
; PRIOR FILING DATE: 2004-07-07
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 51
; LENGTH: 45
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-895-861-51

Query Match 64.9%; Score 37; DB 9; Length 45;
Best Local Similarity 62.5%; Pred. No. 28;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TGRCMSCC 8
|| | :||
Db 6 TGTCCACC 13

RESULT 25
US-11-004-399-886
; Sequence 886, Application US/11004399
; Publication No. US20060053516A1
; GENERAL INFORMATION:
; APPLICANT: Chye, Mee Lee
; APPLICANT: Li, Hong Ye
; APPLICANT: Ramalingam, Sathiskumar
; APPLICANT: Poon, Leo Lit Man
; APPLICANT: Peiris, Joseph Sriyal Malik
; TITLE OF INVENTION: Genetically Modified Plants Comprising SARS-CoV Viral Nucleotide
; TITLE OF INVENTION: Sequences and Methods of Use Thereof For Immunization Against SA
; FILE REFERENCE: 2587/73166/RDK
; CURRENT APPLICATION NUMBER: US/11/004,399
; CURRENT FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: US 60/527,637
; PRIOR FILING DATE: 2003-12-03
; NUMBER OF SEQ ID NOS: 4043
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 886
; LENGTH: 45
; TYPE: PRT
; ORGANISM: SARS-CoV Virus
US-11-004-399-886

Query Match 64.9%; Score 37; DB 11; Length 45;

```
  Best Local Similarity   83.3%;  Pred. No. 28;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 RCMSCC 8
              ||:|||
Db         29 RCISCC 34


RESULT 26
US-11-217-995-37
; Sequence 37, Application US/11217995
; Publication No. US20060073142A1
; GENERAL INFORMATION:
;  APPLICANT: Andrew C. Chan
;  APPLICANT:  Robert Shields
;  APPLICANT:  Lawren Wu
;  TITLE OF INVENTION: ANTI-FC-GAMMA RIIB RECEPTOR ANTIBODY AND USES THEREFOR
;  FILE REFERENCE: P1935R1
;  CURRENT APPLICATION NUMBER: US/11/217,995
;  CURRENT FILING DATE:  2002-08-12
;  PRIOR APPLICATION NUMBER: US 60/606,851
;  PRIOR FILING DATE: 2004-09-02
;  NUMBER OF SEQ ID NOS: 40
; SEQ ID NO 37
;   LENGTH: 370
;   TYPE: PRT
;   ORGANISM: Artificial sequence
;   FEATURE:
;   OTHER INFORMATION: sequence is synthesized
US-11-217-995-37

  Query Match             64.9%;  Score 37;  DB 11;  Length 370;
  Best Local Similarity   62.5%;  Pred. No. 1.3e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCC 8
              || | :||
Db        251 TGTCTACC 258


RESULT 27
US-10-980-388-40
; Sequence 40, Application US/10980388
; Publication No. US20050255490A1
; GENERAL INFORMATION:
;  APPLICANT: Vogeli, Gabriel
;  APPLICANT:  Parodi, Luis A.
;  APPLICANT:  Hiebsch, Ronald R.
;  APPLICANT:  Lind, Peter
;  APPLICANT:  Kaytes, Paul S.
;  APPLICANT:  Ruff, Valerie
;  APPLICANT:  Huff, Rita M.
;  APPLICANT:  Wood, Linda S.
;  TITLE OF INVENTION: Novel G Protein-Coupled Receptors Cross-Reference To Related Appl
;  FILE REFERENCE: 00325.US1
;  CURRENT APPLICATION NUMBER: US/10/980,388
;  CURRENT FILING DATE:  2004-11-02
;  PRIOR APPLICATION NUMBER: US/09/791,932
;  PRIOR FILING DATE: 2001-02-23
;  PRIOR APPLICATION NUMBER: 60/184,305
;  PRIOR FILING DATE: 2000-02-23
;  PRIOR APPLICATION NUMBER: 60/184,304
;  PRIOR FILING DATE: 2000-02-23
;  PRIOR APPLICATION NUMBER: 60/184,303
;  PRIOR FILING DATE: 2000-02-23
;  PRIOR APPLICATION NUMBER: 60/184,397
;  PRIOR FILING DATE: 2000-02-23
;  PRIOR APPLICATION NUMBER: 60/184,247
;  PRIOR FILING DATE: 2000-02-23
;  PRIOR APPLICATION NUMBER: 60/188,880
;  PRIOR FILING DATE: 2000-03-13
;  PRIOR APPLICATION NUMBER: 60/217,369
;  PRIOR FILING DATE: 2000-07-11
;  PRIOR APPLICATION NUMBER: 60/217,370
;  PRIOR FILING DATE: 2000-07-11
;  PRIOR APPLICATION NUMBER: 60/218,492
;  PRIOR FILING DATE: 2000-07-20
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 184
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 40
;   LENGTH: 544
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-980-388-40

  Query Match             64.9%;  Score 37;  DB 9;  Length 544;
  Best Local Similarity   62.5%;  Pred. No. 1.7e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCC 8
              || | :||
Db        156 TGTCCTCC 163


RESULT 28
US-10-915-002-247
; Sequence 247, Application US/10915002
; Publication No. US20060078950A1
; GENERAL INFORMATION:
;  APPLICANT: Progulske-Fox, Ann
;  APPLICANT:  Hillman, Jeffrey D.
;  APPLICANT:  Handfield, Martin
;  TITLE OF INVENTION: IDENTIFICATION OF PORPHYROMONAS GINGIVALIS VIRULENCE POLYNUCLEOTII
;  TITLE OF INVENTION:  USE IN DIAGNOSIS ANTIGENS FOR USE IN THE DIAGNOSIS, TREATMENT, AN
;  TITLE OF INVENTION:  PERIODONTAL DISEASES
;  FILE REFERENCE: 02-042
;  CURRENT APPLICATION NUMBER: US/10/915,002
;  CURRENT FILING DATE:  2004-08-10
;  NUMBER OF SEQ ID NOS: 354
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 247
;   LENGTH: 639
;   TYPE: PRT
;   ORGANISM: Porphyromonas gingivalis
US-10-915-002-247

  Query Match             64.9%;  Score 37;  DB 9;  Length 639;
  Best Local Similarity   62.5%;  Pred. No. 1.9e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCC 8
              || | :||
Db        396 TGACATCC 403


RESULT 29
US-11-217-995-35
; Sequence 35, Application US/11217995
; Publication No. US20060073142A1
; GENERAL INFORMATION:
;  APPLICANT: Andrew C. Chan
;  APPLICANT:  Robert Shields
;  APPLICANT:  Lawren Wu
;  TITLE OF INVENTION: ANTI-FC-GAMMA RIIB RECEPTOR ANTIBODY AND USES THEREFOR
;  FILE REFERENCE: P1935R1
;  CURRENT APPLICATION NUMBER: US/11/217,995
;  CURRENT FILING DATE:  2002-08-12
;  PRIOR APPLICATION NUMBER: US 60/606,851
;  PRIOR FILING DATE: 2004-09-02
;  NUMBER OF SEQ ID NOS: 40
; SEQ ID NO 35
;   LENGTH: 1141
;   TYPE: PRT
;   ORGANISM: Artificial sequence
;   FEATURE:
```

; OTHER INFORMATION: sequence is synthesized
US-11-217-995-35

Query Match 64.9%; Score 37; DB 11; Length 1141;
Best Local Similarity 62.5%; Pred. No. 2.8e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```
Qy          1 TGRCMSCC 8
              || | :||
Db        494 TGACATCC 501
```

RESULT 30
US-10-496-284-22
; Sequence 22, Application US/10496284
; Publication No. US20060083740A1
; GENERAL INFORMATION:
; APPLICANT: Ramsdell, Fred
; APPLICANT: Proll, Sean
; APPLICANT: Staehling-Hampton, Karen
; APPLICANT: Appleby, Mark
; APPLICANT: Garcia-Martinez, Fernando
; TITLE OF INVENTION: MANIPULATION OF CYTOKINE LEVELS USING CD83 GENE PRODUCTS
; FILE REFERENCE: 60117-123
; CURRENT APPLICATION NUMBER: US/10/496,284
; CURRENT FILING DATE: 2004-05-21
; PRIOR APPLICATION NUMBER: US 60/331,958
; PRIOR FILING DATE: 2001-11-21
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22
; LENGTH: 1362
; TYPE: PRT
; ORGANISM: Oryctolagus cuniculus
US-10-496-284-22

Query Match 64.9%; Score 37; DB 9; Length 1362;
Best Local Similarity 62.5%; Pred. No. 3.2e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```
Qy          1 TGRCMSCC 8
              || | :||
Db        302 TGACAACC 309
```

RESULT 31
US-10-194-487-451
; Sequence 451, Application US/10194487
; Publication No. US20060074226A1
; GENERAL INFORMATION:
; APPLICANT: Baker,Kevin P.
; APPLICANT: Chen,Jian
; APPLICANT: Desnoyers,Luc
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul J.
; APPLICANT: Gurney,Austin L.
; APPLICANT: Pan,James
; APPLICANT: Smith,Victoria
; APPLICANT: Watanabe,Colin K.
; APPLICANT: Wood,William I.
; APPLICANT: Zhang,Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3430R1C312
; CURRENT APPLICATION NUMBER: US/10/194,487
; CURRENT FILING DATE: 2002-07-12
; PRIOR APPLICATION NUMBER: 10/052586
; PRIOR FILING DATE: 2002-01-15
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059266
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063120
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063121
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063486
; PRIOR FILING DATE: 1997-10-21
; PRIOR APPLICATION NUMBER: 60/063540
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063541
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063544
; PRIOR FILING DATE: 1997-10-28
; Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 451
; LENGTH: 1743
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-194-487-451

Query Match 64.9%; Score 37; DB 9; Length 1743;
Best Local Similarity 62.5%; Pred. No. 3.8e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```
Qy          1 TGRCMSCC 8
              || | :||
Db        872 TGTCCTCC 879
```

RESULT 32
US-10-195-883-451
; Sequence 451, Application US/10195883
; Publication No. US20060073544A1
; GENERAL INFORMATION:
; APPLICANT: Baker,Kevin P.
; APPLICANT: Chen,Jian
; APPLICANT: Desnoyers,Luc
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul J.
; APPLICANT: Gurney,Austin L.
; APPLICANT: Pan,James
; APPLICANT: Smith,Victoria
; APPLICANT: Watanabe,Colin K.
; APPLICANT: Wood,William I.
; APPLICANT: Zhang,Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3430R1C323
; CURRENT APPLICATION NUMBER: US/10/195,883
; CURRENT FILING DATE: 2002-07-15
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 451
; LENGTH: 1743
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-195-883-451

Query Match 64.9%; Score 37; DB 9; Length 1743;
Best Local Similarity 62.5%; Pred. No. 3.8e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```
Qy          1 TGRCMSCC 8
              || | :||
Db        872 TGTCCTCC 879
```

RESULT 33
US-10-195-888-451
; Sequence 451, Application US/10195888
; Publication No. US20060073545A1
; GENERAL INFORMATION:

```
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Chen,Jian
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Pan,James
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  APPLICANT:  Zhang,Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3430R1C324
;  CURRENT APPLICATION NUMBER: US/10/195,888
;  CURRENT FILING DATE:  2002-07-15
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 451
;   LENGTH: 1743
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-195-888-451

  Query Match             64.9%;  Score 37;  DB 9;  Length 1743;
  Best Local Similarity   62.5%;  Pred. No. 3.8e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCC 8
              || | :||
Db        872 TGTCCTCC 879


RESULT 34
US-10-195-889-451
; Sequence 451, Application US/10195889
; Publication No. US20060074227A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Chen,Jian
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Pan,James
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  APPLICANT:  Zhang,Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3430R1C329
;  CURRENT APPLICATION NUMBER: US/10/195,889
;  CURRENT FILING DATE:  2002-07-15
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 451
;   LENGTH: 1743
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-195-889-451

  Query Match             64.9%;  Score 37;  DB 9;  Length 1743;
  Best Local Similarity   62.5%;  Pred. No. 3.8e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCC 8
              || | :||
Db        872 TGTCCTCC 879


RESULT 35
US-11-241-631-5
; Sequence 5, Application US/11241631
; Publication No. US20060020115A1
; GENERAL INFORMATION:
;  APPLICANT: Bamber, Bruce
;  APPLICANT:  Jorgensen, Erik
;  TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
;  TITLE OF INVENTION:  Methods Related Thereto
;  FILE REFERENCE: 21101.0009U4
;  CURRENT APPLICATION NUMBER: US/11/241,631
;  CURRENT FILING DATE:  2005-09-30
;  PRIOR APPLICATION NUMBER: US/10/156,240
;  PRIOR FILING DATE: 2002-05-24
;  PRIOR APPLICATION NUMBER: 09/436,063
;  PRIOR FILING DATE: 1999-11-08
;  PRIOR APPLICATION NUMBER: 60/107,727
;  PRIOR FILING DATE: 1998-11-09
;  NUMBER OF SEQ ID NOS: 18
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
;   LENGTH: 1917
;   TYPE: PRT
;   ORGANISM: Caenorhabditis elegans
US-11-241-631-5

  Query Match             64.9%;  Score 37;  DB 11;  Length 1917;
  Best Local Similarity   62.5%;  Pred. No. 4e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCC 8
              || | :||
Db        906 TGTCCACC 913


RESULT 36
US-10-194-487-525
; Sequence 525, Application US/10194487
; Publication No. US20060074226A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Chen,Jian
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Pan,James
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  APPLICANT:  Zhang,Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3430R1C312
;  CURRENT APPLICATION NUMBER: US/10/194,487
;  CURRENT FILING DATE:  2002-07-12
;  PRIOR APPLICATION NUMBER: 10/052586
;  PRIOR FILING DATE: 2002-01-15
;  PRIOR APPLICATION NUMBER: 60/059263
;  PRIOR FILING DATE: 1997-09-18
;  PRIOR APPLICATION NUMBER: 60/059266
;  PRIOR FILING DATE: 1997-09-18
;  PRIOR APPLICATION NUMBER: 60/062250
;  PRIOR FILING DATE: 1997-10-17
;  PRIOR APPLICATION NUMBER: 60/063120
;  PRIOR FILING DATE: 1997-10-24
;  PRIOR APPLICATION NUMBER: 60/063121
;  PRIOR FILING DATE: 1997-10-24
;  PRIOR APPLICATION NUMBER: 60/063486
;  PRIOR FILING DATE: 1997-10-21
;  PRIOR APPLICATION NUMBER: 60/063540
;  PRIOR FILING DATE: 1997-10-28
;  PRIOR APPLICATION NUMBER: 60/063541
;  PRIOR FILING DATE: 1997-10-28
;  PRIOR APPLICATION NUMBER: 60/063544
```

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;  PRIOR FILING DATE: 1997-10-28
;  Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 525
;   LENGTH: 4440
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-194-487-525

  Query Match             64.9%;  Score 37;  DB 9;  Length 4440;
  Best Local Similarity   62.5%;  Pred. No. 7.3e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCC 8
              || | :||
Db        725 TGACCTCC 732


RESULT 37
US-10-195-883-525
; Sequence 525, Application US/10195883
; Publication No. US20060073544A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Chen,Jian
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Pan,James
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  APPLICANT:  Zhang,Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3430R1C323
;  CURRENT APPLICATION NUMBER: US/10/195,883
;  CURRENT FILING DATE:  2002-07-15
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 525
;   LENGTH: 4440
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-195-883-525

  Query Match             64.9%;  Score 37;  DB 9;  Length 4440;
  Best Local Similarity   62.5%;  Pred. No. 7.3e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCC 8
              || | :||
Db        725 TGACCTCC 732


RESULT 38
US-10-195-888-525
; Sequence 525, Application US/10195888
; Publication No. US20060073545A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Chen,Jian
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Pan,James
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  APPLICANT:  Zhang,Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3430R1C324
;  CURRENT APPLICATION NUMBER: US/10/195,888
;  CURRENT FILING DATE:  2002-07-15
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 525
;   LENGTH: 4440
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-195-888-525

  Query Match             64.9%;  Score 37;  DB 9;  Length 4440;
  Best Local Similarity   62.5%;  Pred. No. 7.3e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCC 8
              || | :||
Db        725 TGACCTCC 732


RESULT 39
US-10-195-889-525
; Sequence 525, Application US/10195889
; Publication No. US20060074227A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Chen,Jian
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Pan,James
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Watanabe,Colin K.
;  APPLICANT:  Wood,William I.
;  APPLICANT:  Zhang,Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3430R1C329
;  CURRENT APPLICATION NUMBER: US/10/195,889
;  CURRENT FILING DATE:  2002-07-15
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 525
;   LENGTH: 4440
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-195-889-525

  Query Match             64.9%;  Score 37;  DB 9;  Length 4440;
  Best Local Similarity   62.5%;  Pred. No. 7.3e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCC 8
              || | :||
Db        725 TGACCTCC 732


RESULT 40
US-10-530-061-533
; Sequence 533, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
```

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;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 533
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-533

  Query Match             63.2%;  Score 36;  DB 9;  Length 10;
  Best Local Similarity   71.4%;  Pred. No. 13;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 GRCMSCC 8
              |:| |||
Db          2 GQCHSCC 8


RESULT 41
US-10-530-061-546
; Sequence 546, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 546
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-546

  Query Match             63.2%;  Score 36;  DB 9;  Length 10;
  Best Local Similarity   71.4%;  Pred. No. 13;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 TGRCMSC 7
              ||||::|
Db          2 TGRCIAC 8


RESULT 42
US-11-217-995-19
; Sequence 19, Application US/11217995
; Publication No. US20060073142A1
; GENERAL INFORMATION:
;  APPLICANT: Andrew C. Chan
;  APPLICANT:  Robert Shields
;  APPLICANT:  Lawren Wu
;  TITLE OF INVENTION: ANTI-FC-GAMMA RIIB RECEPTOR ANTIBODY AND USES THEREFOR
;  FILE REFERENCE: P1935R1
;  CURRENT APPLICATION NUMBER: US/11/217,995
;  CURRENT FILING DATE:  2002-08-12
;  PRIOR APPLICATION NUMBER: US 60/606,851
;  PRIOR FILING DATE: 2004-09-02
;  NUMBER OF SEQ ID NOS: 40
; SEQ ID NO 19
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Artificial sequence
;   FEATURE:
;   OTHER INFORMATION: sequence is synthesized
US-11-217-995-19

  Query Match             63.2%;  Score 36;  DB 11;  Length 20;
  Best Local Similarity   62.5%;  Pred. No. 22;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 TGRCMSCC 8
              || |  ||
Db          8 TGTCAGCC 15


RESULT 43
US-11-139-041-355
; Sequence 355, Application US/11139041
; Publication No. US20060083749A1
; GENERAL INFORMATION:
;  APPLICANT: Fanger, Gary R.
;  APPLICANT:  Hirst, Shannon Kathleen
;  APPLICANT:  Dillon, Davin C.
;  APPLICANT:  Foy, Teresa M.
;  APPLICANT:  Houghton, Raymond L.
;  APPLICANT:  Persing, David H.
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
;  TITLE OF INVENTION:  AND DIAGNOSIS OF BREAST CANCER
;  FILE REFERENCE: 210121.419C15
;  CURRENT APPLICATION NUMBER: US/11/139,041
;  CURRENT FILING DATE:  2005-05-25
;  PRIOR APPLICATION NUMBER: US 10/079,137
;  PRIOR FILING DATE: 2002-02-20
;  PRIOR APPLICATION NUMBER: US 09/924,400
;  PRIOR FILING DATE: 2001-08-07
;  PRIOR APPLICATION NUMBER: US 09/810,936
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: US 09/699,295
;  PRIOR FILING DATE: 2000-10-26
;  PRIOR APPLICATION NUMBER: US 09/590,583
;  PRIOR FILING DATE: 2000-06-08
;  PRIOR APPLICATION NUMBER: US 09/577,505
;  PRIOR FILING DATE: 2000-05-24
;  PRIOR APPLICATION NUMBER: US 09/534,825
;  PRIOR FILING DATE: 2000-03-23
;  PRIOR APPLICATION NUMBER: US 09/429,755
;  PRIOR FILING DATE: 1999-10-28
;  PRIOR APPLICATION NUMBER: US 09/289,198
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/062,451
;  PRIOR FILING DATE: 1998-04-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 428
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 355
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-139-041-355

  Query Match             63.2%;  Score 36;  DB 11;  Length 20;
  Best Local Similarity   71.4%;  Pred. No. 22;
  Matches    5;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          3 RCMSCCR 9
              ||  |||
Db         14 RCFPCCR 20


RESULT 44
US-11-139-041-356
; Sequence 356, Application US/11139041
; Publication No. US20060083749A1
```

; GENERAL INFORMATION:
; APPLICANT: Fanger, Gary R.
; APPLICANT: Hirst, Shannon Kathleen
; APPLICANT: Dillon, Davin C.
; APPLICANT: Foy, Teresa M.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Persing, David H.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.419C15
; CURRENT APPLICATION NUMBER: US/11/139,041
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 10/079,137
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 09/924,400
; PRIOR FILING DATE: 2001-08-07
; PRIOR APPLICATION NUMBER: US 09/810,936
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: US 09/699,295
; PRIOR FILING DATE: 2000-10-26
; PRIOR APPLICATION NUMBER: US 09/590,583
; PRIOR FILING DATE: 2000-06-08
; PRIOR APPLICATION NUMBER: US 09/577,505
; PRIOR FILING DATE: 2000-05-24
; PRIOR APPLICATION NUMBER: US 09/534,825
; PRIOR FILING DATE: 2000-03-23
; PRIOR APPLICATION NUMBER: US 09/429,755
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: US 09/289,198
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/062,451
; PRIOR FILING DATE: 1998-04-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 428
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 356
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-139-041-356

Query Match 63.2%; Score 36; DB 11; Length 20;
Best Local Similarity 71.4%; Pred. No. 22;
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 RCMSCCR 9
|| |||
Db 9 RCFPCCR 15

RESULT 45
US-11-139-041-357
; Sequence 357, Application US/11139041
; Publication No. US20060083749A1
; GENERAL INFORMATION:
; APPLICANT: Fanger, Gary R.
; APPLICANT: Hirst, Shannon Kathleen
; APPLICANT: Dillon, Davin C.
; APPLICANT: Foy, Teresa M.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Persing, David H.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.419C15
; CURRENT APPLICATION NUMBER: US/11/139,041
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 10/079,137
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 09/924,400
; PRIOR FILING DATE: 2001-08-07
; PRIOR APPLICATION NUMBER: US 09/810,936
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: US 09/699,295
; PRIOR FILING DATE: 2000-10-26
; PRIOR APPLICATION NUMBER: US 09/590,583
; PRIOR FILING DATE: 2000-06-08
; PRIOR APPLICATION NUMBER: US 09/577,505
; PRIOR FILING DATE: 2000-05-24
; PRIOR APPLICATION NUMBER: US 09/534,825
; PRIOR FILING DATE: 2000-03-23
; PRIOR APPLICATION NUMBER: US 09/429,755
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: US 09/289,198
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/062,451
; PRIOR FILING DATE: 1998-04-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 428
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 357
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-139-041-357

Query Match 63.2%; Score 36; DB 11; Length 20;
Best Local Similarity 71.4%; Pred. No. 22;
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 RCMSCCR 9
|| |||
Db 4 RCFPCCR 10

RESULT 46
US-11-139-041-426
; Sequence 426, Application US/11139041
; Publication No. US20060083749A1
; GENERAL INFORMATION:
; APPLICANT: Fanger, Gary R.
; APPLICANT: Hirst, Shannon Kathleen
; APPLICANT: Dillon, Davin C.
; APPLICANT: Foy, Teresa M.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Persing, David H.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.419C15
; CURRENT APPLICATION NUMBER: US/11/139,041
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 10/079,137
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 09/924,400
; PRIOR FILING DATE: 2001-08-07
; PRIOR APPLICATION NUMBER: US 09/810,936
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: US 09/699,295
; PRIOR FILING DATE: 2000-10-26
; PRIOR APPLICATION NUMBER: US 09/590,583
; PRIOR FILING DATE: 2000-06-08
; PRIOR APPLICATION NUMBER: US 09/577,505
; PRIOR FILING DATE: 2000-05-24
; PRIOR APPLICATION NUMBER: US 09/534,825
; PRIOR FILING DATE: 2000-03-23
; PRIOR APPLICATION NUMBER: US 09/429,755
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: US 09/289,198
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/062,451
; PRIOR FILING DATE: 1998-04-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 428
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 426
; LENGTH: 33
; TYPE: PRT

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;   ORGANISM: Homo sapiens
US-11-139-041-426

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RESULT 47
US-10-530-253-22
; Sequence 22, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 22
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;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 52
US-10-530-253-22

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RESULT 48
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; Sequence 15, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
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; Sequence 21, Application US/11182343
; Publication No. US20060018910A1
; GENERAL INFORMATION:
;  APPLICANT: Cohen, Bruce
;  APPLICANT:  Gualberto, Antonio
;  APPLICANT:  Melvin, Carrie
;  APPLICANT:  Roberts, Luisa M.
;  TITLE OF INVENTION: COMBINATION TREATMENT FOR BREAST CANCER
;  FILE REFERENCE: PC32226A
;  CURRENT APPLICATION NUMBER: US/11/182,343
;  CURRENT FILING DATE:  2005-07-15
;  PRIOR APPLICATION NUMBER: 60/588,721
;  PRIOR FILING DATE: 2004-07-16
;  NUMBER OF SEQ ID NOS: 60
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US-11-182-343-21

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; Publication No. US20060018910A1
; GENERAL INFORMATION:
;  APPLICANT: Cohen, Bruce
;  APPLICANT:  Gualberto, Antonio
;  APPLICANT:  Melvin, Carrie
;  APPLICANT:  Roberts, Luisa M.
;  TITLE OF INVENTION: COMBINATION TREATMENT FOR BREAST CANCER
;  FILE REFERENCE: PC32226A
;  CURRENT APPLICATION NUMBER: US/11/182,343
;  CURRENT FILING DATE:  2005-07-15
;  PRIOR APPLICATION NUMBER: 60/588,721
;  PRIOR FILING DATE: 2004-07-16
;  NUMBER OF SEQ ID NOS: 60
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US-11-182-343-37

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Perfect score: 54
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Listing first 1000 summaries

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| 185 | 34.5 | 63.9 | 288 | 2 | US-09-949-016-6985 | Sequence 6985, Ap |
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| 190 | 34 | 63.0 | 14 | 2 | US-09-701-080C-9 | Sequence 9, Appli |
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| 194 | 34 | 63.0 | 28 | 1 | US-08-446-915-21 | Sequence 21, Appl |
| 195 | 34 | 63.0 | 28 | 1 | US-08-744-139-21 | Sequence 21, Appl |
| 196 | 34 | 63.0 | 28 | 2 | US-08-779-599-21 | Sequence 21, Appl |
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| 205 | 34 | 63.0 | 84 | 2 | US-09-674-973A-343 | Sequence 343, App |
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| 207 | 34 | 63.0 | 92 | 2 | US-09-674-973A-347 | Sequence 347, App |
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| 211 | 34 | 63.0 | 99 | 2 | US-09-062-440-7 | Sequence 7, Appli |
| 212 | 34 | 63.0 | 99 | 2 | US-09-712-495-5 | Sequence 5, Appli |
| 213 | 34 | 63.0 | 99 | 2 | US-09-712-495-7 | Sequence 7, Appli |
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| 254 | 34 | 63.0 | 560 | 2 | US-09-510-654-10 | Sequence 10, Appl |
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| 261 | 34 | 63.0 | 574 | 2 | US-09-712-495-4 | Sequence 4, Appli |
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| 264 | 34 | 63.0 | 586 | 2 | US-09-657-013-53 | Sequence 53, Appl |
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| 266 | 34 | 63.0 | 595 | 2 | US-09-949-016-8872 | Sequence 8872, Ap |
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| 278 | 34 | 63.0 | 632 | 2 | US-09-949-016-7867 | Sequence 7867, Ap |
| 279 | 34 | 63.0 | 632 | 2 | US-09-949-016-7868 | Sequence 7868, Ap |
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| 335 | 33 | 61.1 | 11 | 2 | US-09-759-960-33 | Sequence 33, Appl |
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| 362 | 33 | 61.1 | 66 | 1 | US-08-487-811A-16 | Sequence 16, Appl |
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| 455 | 33 | 61.1 | 705 | 2 | US-09-854-133-186 | Sequence 186, App |
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| 689 | 31.5 | 58.3 | 54 | 2 | US-09-270-767-56627 | Sequence 56627, A |
| 690 | 31.5 | 58.3 | 128 | 2 | US-09-248-796A-19004 | Sequence 19004, A |
| 691 | 31 | 57.4 | 25 | 1 | US-08-620-151-72 | Sequence 72, Appl |
| 692 | 31 | 57.4 | 26 | 1 | US-08-331-394-16 | Sequence 16, Appl |
| 693 | 31 | 57.4 | 26 | 1 | US-08-250-858-16 | Sequence 16, Appl |
| 694 | 31 | 57.4 | 26 | 1 | US-08-446-915-16 | Sequence 16, Appl |
| 695 | 31 | 57.4 | 26 | 1 | US-08-744-139-16 | Sequence 16, Appl |
| 696 | 31 | 57.4 | 26 | 1 | US-08-620-151-78 | Sequence 78, Appl |
| 697 | 31 | 57.4 | 26 | 2 | US-09-253-396A-213 | Sequence 213, App |
| 698 | 31 | 57.4 | 26 | 2 | US-08-779-599-16 | Sequence 16, Appl |
| 699 | 31 | 57.4 | 26 | 4 | PCT-US95-06639-16 | Sequence 16, Appl |
| 700 | 31 | 57.4 | 37 | 2 | US-09-205-258-447 | Sequence 447, App |
| 701 | 31 | 57.4 | 37 | 2 | US-10-004-860-447 | Sequence 447, App |
| 702 | 31 | 57.4 | 38 | 2 | US-09-690-454-207 | Sequence 207, App |
| 703 | 31 | 57.4 | 42 | 1 | US-08-480-784-85 | Sequence 85, Appl |
| 704 | 31 | 57.4 | 42 | 1 | US-08-483-553-85 | Sequence 85, Appl |
| 705 | 31 | 57.4 | 42 | 1 | US-08-487-002-85 | Sequence 85, Appl |
| 706 | 31 | 57.4 | 42 | 1 | US-08-483-554B-85 | Sequence 85, Appl |
| 707 | 31 | 57.4 | 42 | 1 | US-08-488-011B-85 | Sequence 85, Appl |
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| 709 | 31 | 57.4 | 42 | 4 | PCT-US95-10202-85 | Sequence 85, Appl |
| 710 | 31 | 57.4 | 42 | 4 | PCT-US95-10203-85 | Sequence 85, Appl |
| 711 | 31 | 57.4 | 42 | 4 | PCT-US95-10220-85 | Sequence 85, Appl |
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| 713 | 31 | 57.4 | 47 | 1 | US-08-250-858-13 | Sequence 13, Appl |
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| 715 | 31 | 57.4 | 47 | 1 | US-08-744-139-13 | Sequence 13, Appl |
| 716 | 31 | 57.4 | 47 | 2 | US-08-779-599-13 | Sequence 13, Appl |
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| 722 | 31 | 57.4 | 55 | 1 | US-08-569-063C-3 | Sequence 3, Appli |
| 723 | 31 | 57.4 | 55 | 2 | US-08-851-896-3 | Sequence 3, Appli |
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| 725 | 31 | 57.4 | 64 | 2 | US-09-328-352-5154 | Sequence 5154, Ap |
| 726 | 31 | 57.4 | 67 | 2 | US-09-621-976-5957 | Sequence 5957, Ap |
| 727 | 31 | 57.4 | 68 | 2 | US-09-489-039A-7375 | Sequence 7375, Ap |
| 728 | 31 | 57.4 | 69 | 2 | US-09-914-324A-9 | Sequence 9, Appli |
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| 730 | 31 | 57.4 | 76 | 2 | US-09-631-616-31 | Sequence 31, Appl |
| 731 | 31 | 57.4 | 82 | 2 | US-09-293-549-10 | Sequence 10, Appl |
| 732 | 31 | 57.4 | 82 | 2 | US-09-487-558B-92 | Sequence 92, Appl |
| 733 | 31 | 57.4 | 84 | 2 | US-09-599-360B-77 | Sequence 77, Appl |
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| 743 | 31 | 57.4 | 136 | 2 | US-09-252-991A-26088 | Sequence 26088, A |
| 744 | 31 | 57.4 | 137 | 2 | US-09-252-991A-30992 | Sequence 30992, A |
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| 752 | 31 | 57.4 | 151 | 2 | US-09-248-796A-14713 | Sequence 14713, A |
| 753 | 31 | 57.4 | 154 | 2 | US-09-270-767-33557 | Sequence 33557, A |
| 754 | 31 | 57.4 | 154 | 2 | US-09-270-767-48774 | Sequence 48774, A |
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| 756 | 31 | 57.4 | 159 | 1 | US-08-459-850-14 | Sequence 14, Appl |
| 757 | 31 | 57.4 | 159 | 1 | US-08-459-214-14 | Sequence 14, Appl |
| 758 | 31 | 57.4 | 160 | 2 | US-09-270-767-57547 | Sequence 57547, A |
| 759 | 31 | 57.4 | 160 | 2 | US-09-949-016-8123 | Sequence 8123, Ap |
| 760 | 31 | 57.4 | 163 | 2 | US-09-252-991A-28309 | Sequence 28309, A |
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| 765 | 31 | 57.4 | 180 | 2 | US-09-949-016-11029 | Sequence 11029, A |
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| 768 | 31 | 57.4 | 188 | 1 | US-08-609-443B-5 | Sequence 5, Appli |
| 769 | 31 | 57.4 | 188 | 1 | US-08-569-063C-5 | Sequence 5, Appli |
| 770 | 31 | 57.4 | 188 | 2 | US-08-851-896-5 | Sequence 5, Appli |
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| 776 | 31 | 57.4 | 193 | 2 | US-08-818-655-9 | Sequence 9, Appli |
| 777 | 31 | 57.4 | 193 | 2 | US-08-818-655-10 | Sequence 10, Appl |
| 778 | 31 | 57.4 | 193 | 2 | US-09-305-839-9 | Sequence 9, Appli |
| 779 | 31 | 57.4 | 193 | 2 | US-09-305-839-10 | Sequence 10, Appl |
| 780 | 31 | 57.4 | 195 | 1 | US-08-469-427A-7 | Sequence 7, Appli |
| 781 | 31 | 57.4 | 195 | 1 | US-08-609-443B-7 | Sequence 7, Appli |
| 782 | 31 | 57.4 | 195 | 1 | US-08-569-063C-7 | Sequence 7, Appli |
| 783 | 31 | 57.4 | 195 | 2 | US-08-851-896-7 | Sequence 7, Appli |
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| 786 | 31 | 57.4 | 224 | 2 | US-09-270-767-51896 | Sequence 51896, A |
| 787 | 31 | 57.4 | 231 | 2 | US-09-513-999C-5171 | Sequence 5171, Ap |
| 788 | 31 | 57.4 | 302 | 2 | US-09-248-796A-24789 | Sequence 24789, A |
| 789 | 31 | 57.4 | 320 | 2 | US-09-758-759-173 | Sequence 173, App |
| 790 | 31 | 57.4 | 327 | 2 | US-09-949-016-7575 | Sequence 7575, Ap |
| 791 | 31 | 57.4 | 339 | 2 | US-09-182-145-32 | Sequence 32, Appl |
| 792 | 31 | 57.4 | 339 | 2 | US-09-182-145-36 | Sequence 36, Appl |
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| 795 | 31 | 57.4 | 350 | 2 | US-09-252-991A-27255 | Sequence 27255, A |
| 796 | 31 | 57.4 | 350 | 2 | US-09-270-767-42267 | Sequence 42267, A |
| 797 | 31 | 57.4 | 353 | 2 | US-09-013-881-3 | Sequence 3, Appli |
| 798 | 31 | 57.4 | 353 | 2 | US-09-612-473-3 | Sequence 3, Appli |
| 799 | 31 | 57.4 | 354 | 2 | US-09-182-145-37 | Sequence 37, Appl |
| 800 | 31 | 57.4 | 354 | 2 | US-09-253-316-2 | Sequence 2, Appli |
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| 802 | 31 | 57.4 | 359 | 2 | US-09-949-016-5912 | Sequence 5912, Ap |
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| 812 | 31 | 57.4 | 379 | 2 | US-10-007-527A-2 | Sequence 2, Appli |
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| 814 | 31 | 57.4 | 409 | 2 | US-09-248-796A-19008 | Sequence 19008, A |
| 815 | 31 | 57.4 | 433 | 2 | US-09-252-991A-25248 | Sequence 25248, A |
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| 817 | 31 | 57.4 | 456 | 2 | US-10-154-515A-27 | Sequence 27, Appl |
| 818 | 31 | 57.4 | 456 | 2 | US-10-122-706-27 | Sequence 27, Appl |
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| 820 | 31 | 57.4 | 490 | 2 | US-09-949-016-6218 | Sequence 6218, Ap |
| 821 | 31 | 57.4 | 495 | 2 | US-09-673-395A-173 | Sequence 173, App |
| 822 | 31 | 57.4 | 510 | 2 | US-08-246-489-2 | Sequence 2, Appli |
| 823 | 31 | 57.4 | 533 | 2 | US-09-248-796A-19351 | Sequence 19351, A |
| 824 | 31 | 57.4 | 536 | 1 | US-08-164-614A-12 | Sequence 12, Appl |
| 825 | 31 | 57.4 | 536 | 1 | US-08-456-489B-12 | Sequence 12, Appl |
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| 829 | 31 | 57.4 | 580 | 2 | US-09-252-991A-29484 | Sequence 29484, A |
| 830 | 31 | 57.4 | 605 | 2 | US-09-252-991A-20980 | Sequence 20980, A |

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| 832 | 31 | 57.4 | 722 | 2 | US-09-949-016-6909 | Sequence 6909, Ap |
| 833 | 31 | 57.4 | 723 | 2 | US-09-564-805-239 | Sequence 239, App |
| 834 | 31 | 57.4 | 723 | 2 | US-09-434-408-2 | Sequence 2, Appli |
| 835 | 31 | 57.4 | 723 | 2 | US-10-104-047-2572 | Sequence 2572, Ap |
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| 839 | 31 | 57.4 | 802 | 2 | US-10-177-308-2 | Sequence 2, Appli |
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| 855 | 31 | 57.4 | 1312 | 2 | US-10-071-179-29 | Sequence 29, Appl |
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| 858 | 31 | 57.4 | 1626 | 2 | US-09-232-446B-2 | Sequence 2, Appli |
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| 860 | 31 | 57.4 | 1722 | 2 | US-09-538-092-1033 | Sequence 1033, Ap |
| 861 | 30.5 | 56.5 | 240 | 2 | US-09-949-016-10139 | Sequence 10139, A |
| 862 | 30.5 | 56.5 | 363 | 2 | US-09-270-767-45543 | Sequence 45543, A |
| 863 | 30.5 | 56.5 | 388 | 2 | US-09-902-540-10324 | Sequence 10324, A |
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| 868 | 30 | 55.6 | 13 | 1 | US-08-411-142A-8 | Sequence 8, Appli |
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| 870 | 30 | 55.6 | 15 | 4 | PCT-US96-10435-9 | Sequence 9, Appli |
| 871 | 30 | 55.6 | 20 | 2 | US-09-954-987B-148 | Sequence 148, App |
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| 873 | 30 | 55.6 | 26 | 1 | US-08-620-151-24 | Sequence 24, Appl |
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| 875 | 30 | 55.6 | 36 | 2 | US-09-270-767-60542 | Sequence 60542, A |
| 876 | 30 | 55.6 | 38 | 2 | US-09-270-767-37004 | Sequence 37004, A |
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| 879 | 30 | 55.6 | 43 | 2 | US-09-716-536-11 | Sequence 11, Appl |
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| 882 | 30 | 55.6 | 45 | 1 | US-08-446-915-10 | Sequence 10, Appl |
| 883 | 30 | 55.6 | 45 | 1 | US-08-744-139-10 | Sequence 10, Appl |
| 884 | 30 | 55.6 | 45 | 2 | US-09-046-894-40 | Sequence 40, Appl |
| 885 | 30 | 55.6 | 45 | 2 | US-08-779-599-10 | Sequence 10, Appl |
| 886 | 30 | 55.6 | 45 | 4 | PCT-US95-06639-10 | Sequence 10, Appl |
| 887 | 30 | 55.6 | 46 | 1 | US-08-331-394-11 | Sequence 11, Appl |
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| 889 | 30 | 55.6 | 46 | 1 | US-08-446-915-11 | Sequence 11, Appl |
| 890 | 30 | 55.6 | 46 | 1 | US-08-744-139-11 | Sequence 11, Appl |
| 891 | 30 | 55.6 | 46 | 2 | US-08-779-599-11 | Sequence 11, Appl |
| 892 | 30 | 55.6 | 46 | 4 | PCT-US95-06639-11 | Sequence 11, Appl |
| 893 | 30 | 55.6 | 47 | 1 | US-08-691-814B-13 | Sequence 13, Appl |
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| 895 | 30 | 55.6 | 47 | 2 | US-09-716-536-14 | Sequence 14, Appl |
| 896 | 30 | 55.6 | 48 | 2 | US-09-052-089A-13 | Sequence 13, Appl |
| 897 | 30 | 55.6 | 48 | 2 | US-09-716-536-13 | Sequence 13, Appl |
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| 899 | 30 | 55.6 | 50 | 2 | US-09-270-767-54061 | Sequence 54061, A |
| 900 | 30 | 55.6 | 62 | 2 | US-09-732-210-165 | Sequence 165, App |
| 901 | 30 | 55.6 | 66 | 2 | US-09-543-681A-5568 | Sequence 5568, Ap |
| 902 | 30 | 55.6 | 70 | 2 | US-09-489-039A-13139 | Sequence 13139, A |
| 903 | 30 | 55.6 | 75 | 2 | US-09-107-532A-5504 | Sequence 5504, Ap |
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| 906 | 30 | 55.6 | 81 | 2 | US-09-538-106-46 | Sequence 46, Appl |
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| 913 | 30 | 55.6 | 98 | 2 | US-09-621-976-4336 | Sequence 4336, Ap |
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| 916 | 30 | 55.6 | 112 | 2 | US-09-621-976-5677 | Sequence 5677, Ap |
| 917 | 30 | 55.6 | 112 | 2 | US-09-621-976-5805 | Sequence 5805, Ap |
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| 920 | 30 | 55.6 | 112 | 2 | US-09-270-767-47395 | Sequence 47395, A |
| 921 | 30 | 55.6 | 113 | 2 | US-09-270-767-40180 | Sequence 40180, A |
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| 929 | 30 | 55.6 | 123 | 2 | US-09-156-316-10 | Sequence 10, Appl |
| 930 | 30 | 55.6 | 123 | 2 | US-09-757-049A-10 | Sequence 10, Appl |
| 931 | 30 | 55.6 | 128 | 2 | US-09-248-796A-19344 | Sequence 19344, A |
| 932 | 30 | 55.6 | 129 | 2 | US-09-328-352-5196 | Sequence 5196, Ap |
| 933 | 30 | 55.6 | 129 | 2 | US-09-270-767-37099 | Sequence 37099, A |
| 934 | 30 | 55.6 | 129 | 2 | US-09-270-767-52316 | Sequence 52316, A |
| 935 | 30 | 55.6 | 135 | 2 | US-09-270-767-37619 | Sequence 37619, A |
| 936 | 30 | 55.6 | 135 | 2 | US-09-270-767-52836 | Sequence 52836, A |
| 937 | 30 | 55.6 | 136 | 2 | US-09-270-767-32546 | Sequence 32546, A |
| 938 | 30 | 55.6 | 136 | 2 | US-09-270-767-47763 | Sequence 47763, A |
| 939 | 30 | 55.6 | 147 | 2 | US-09-489-039A-12924 | Sequence 12924, A |
| 940 | 30 | 55.6 | 154 | 2 | US-09-270-767-38795 | Sequence 38795, A |
| 941 | 30 | 55.6 | 154 | 2 | US-09-270-767-54012 | Sequence 54012, A |
| 942 | 30 | 55.6 | 155 | 2 | US-09-252-991A-20391 | Sequence 20391, A |
| 943 | 30 | 55.6 | 158 | 2 | US-09-489-039A-7655 | Sequence 7655, Ap |
| 944 | 30 | 55.6 | 159 | 2 | US-09-252-991A-30696 | Sequence 30696, A |
| 945 | 30 | 55.6 | 159 | 2 | US-09-489-039A-8633 | Sequence 8633, Ap |
| 946 | 30 | 55.6 | 159 | 2 | US-09-270-767-45877 | Sequence 45877, A |
| 947 | 30 | 55.6 | 171 | 2 | US-09-107-532A-4012 | Sequence 4012, Ap |
| 948 | 30 | 55.6 | 172 | 2 | US-09-710-279-1764 | Sequence 1764, Ap |
| 949 | 30 | 55.6 | 173 | 2 | US-09-134-000C-4901 | Sequence 4901, Ap |
| 950 | 30 | 55.6 | 174 | 2 | US-10-104-047-2771 | Sequence 2771, Ap |
| 951 | 30 | 55.6 | 175 | 2 | US-09-389-956-66 | Sequence 66, Appl |
| 952 | 30 | 55.6 | 181 | 2 | US-09-489-039A-14232 | Sequence 14232, A |
| 953 | 30 | 55.6 | 181 | 2 | US-09-270-767-57391 | Sequence 57391, A |
| 954 | 30 | 55.6 | 188 | 2 | US-09-270-767-36000 | Sequence 36000, A |
| 955 | 30 | 55.6 | 188 | 2 | US-09-270-767-51217 | Sequence 51217, A |
| 956 | 30 | 55.6 | 188 | 2 | US-09-902-540-13173 | Sequence 13173, A |
| 957 | 30 | 55.6 | 190 | 2 | US-09-270-767-37666 | Sequence 37666, A |
| 958 | 30 | 55.6 | 190 | 2 | US-09-270-767-52883 | Sequence 52883, A |
| 959 | 30 | 55.6 | 191 | 2 | US-09-270-767-36747 | Sequence 36747, A |
| 960 | 30 | 55.6 | 191 | 2 | US-09-270-767-51964 | Sequence 51964, A |
| 961 | 30 | 55.6 | 192 | 2 | US-09-134-001C-4098 | Sequence 4098, Ap |
| 962 | 30 | 55.6 | 192 | 2 | US-09-710-279-1224 | Sequence 1224, Ap |
| 963 | 30 | 55.6 | 192 | 2 | US-09-710-279-1524 | Sequence 1524, Ap |
| 964 | 30 | 55.6 | 194 | 2 | US-09-252-991A-22468 | Sequence 22468, A |
| 965 | 30 | 55.6 | 198 | 2 | US-09-538-092-367 | Sequence 367, App |
| 966 | 30 | 55.6 | 205 | 2 | US-09-252-991A-20776 | Sequence 20776, A |
| 967 | 30 | 55.6 | 210 | 2 | US-09-247-155-117 | Sequence 117, App |
| 968 | 30 | 55.6 | 210 | 2 | US-09-903-190-117 | Sequence 117, App |
| 969 | 30 | 55.6 | 213 | 2 | US-09-252-991A-30758 | Sequence 30758, A |
| 970 | 30 | 55.6 | 215 | 2 | US-09-949-016-9485 | Sequence 9485, Ap |
| 971 | 30 | 55.6 | 218 | 1 | US-08-320-559-2 | Sequence 2, Appli |
| 972 | 30 | 55.6 | 218 | 1 | US-08-327-392-2 | Sequence 2, Appli |
| 973 | 30 | 55.6 | 218 | 2 | US-08-545-860D-2 | Sequence 2, Appli |
| 974 | 30 | 55.6 | 218 | 4 | PCT-US94-04496-2 | Sequence 2, Appli |
| 975 | 30 | 55.6 | 236 | 2 | US-09-121-979-4 | Sequence 4, Appli |
| 976 | 30 | 55.6 | 236 | 2 | US-09-332-319-4 | Sequence 4, Appli |

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| 977 | 30 | 55.6 | 236 | 2 | US-09-239-867-2 | Sequence 2, Appli |
| 978 | 30 | 55.6 | 236 | 2 | US-10-024-433-2 | Sequence 2, Appli |
| 979 | 30 | 55.6 | 238 | 2 | US-09-252-991A-23387 | Sequence 23387, A |
| 980 | 30 | 55.6 | 243 | 2 | US-08-220-602B-20 | Sequence 20, Appl |
| 981 | 30 | 55.6 | 243 | 2 | US-09-861-012A-20 | Sequence 20, Appl |
| 982 | 30 | 55.6 | 243 | 2 | US-09-861-098A-20 | Sequence 20, Appl |
| 983 | 30 | 55.6 | 243 | 2 | US-09-861-097-20 | Sequence 20, Appl |
| 984 | 30 | 55.6 | 244 | 2 | US-09-949-016-6039 | Sequence 6039, Ap |
| 985 | 30 | 55.6 | 256 | 2 | US-09-270-767-32493 | Sequence 32493, A |
| 986 | 30 | 55.6 | 256 | 2 | US-09-270-767-47710 | Sequence 47710, A |
| 987 | 30 | 55.6 | 260 | 2 | US-08-743-168B-2 | Sequence 2, Appli |
| 988 | 30 | 55.6 | 260 | 4 | PCT-US96-10435-2 | Sequence 2, Appli |
| 989 | 30 | 55.6 | 264 | 2 | US-10-104-047-2564 | Sequence 2564, Ap |
| 990 | 30 | 55.6 | 268 | 2 | US-09-248-796A-15671 | Sequence 15671, A |
| 991 | 30 | 55.6 | 269 | 2 | US-09-540-236-3703 | Sequence 3703, Ap |
| 992 | 30 | 55.6 | 274 | 4 | PCT-US96-10435-3 | Sequence 3, Appli |
| 993 | 30 | 55.6 | 276 | 2 | US-09-248-796A-26753 | Sequence 26753, A |
| 994 | 30 | 55.6 | 281 | 2 | US-09-543-681A-4336 | Sequence 4336, Ap |
| 995 | 30 | 55.6 | 286 | 2 | US-09-538-092-187 | Sequence 187, App |
| 996 | 30 | 55.6 | 297 | 2 | US-09-267-031-8 | Sequence 8, Appli |
| 997 | 30 | 55.6 | 298 | 2 | US-09-127-928-2 | Sequence 2, Appli |
| 998 | 30 | 55.6 | 298 | 2 | US-09-389-956-4 | Sequence 4, Appli |
| 999 | 30 | 55.6 | 299 | 2 | US-09-949-016-7820 | Sequence 7820, Ap |
| 1000 | 30 | 55.6 | 299 | 2 | US-09-902-540-14916 | Sequence 14916, A |

ALIGNMENTS

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RESULT 1
US-08-934-915-50
; Sequence 50, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  50:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  21 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-50

  Query Match             100.0%;  Score 54;  DB 1;  Length 21;
  Best Local Similarity   100.0%;  Pred. No. 0.028;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         13 VCPICSQKP 21


RESULT 2
US-08-934-915-157
; Sequence 157, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  157:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  21 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-157

  Query Match             100.0%;  Score 54;  DB 1;  Length 21;
  Best Local Similarity   100.0%;  Pred. No. 0.028;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         13 VCPICSQKP 21


RESULT 3
US-09-980-177A-76
; Sequence 76, Application US/09980177A
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; Patent No. 6838084
; GENERAL INFORMATION:
;  APPLICANT: Jochmus, Ingrid
;  APPLICANT:  Nieland, John
;  TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
;  TITLE OF INVENTION:  Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
;  TITLE OF INVENTION:  Therapy
;  FILE REFERENCE: 50125/036001
;  CURRENT APPLICATION NUMBER: US/09/980,177A
;  CURRENT FILING DATE:  2001-11-29
;  PRIOR APPLICATION NUMBER: PCT/EP00/05006
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: DE 19925199.1
;  PRIOR FILING DATE: 1999-06-01
;  NUMBER OF SEQ ID NOS: 77
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 76
;   LENGTH: 21
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-980-177A-76

  Query Match             100.0%;  Score 54;  DB 2;  Length 21;
  Best Local Similarity   100.0%;  Pred. No. 0.028;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         13 VCPICSQKP 21


RESULT 4
US-09-486-394-5
; Sequence 5, Application US/09486394
; Patent No. 6478749
; GENERAL INFORMATION:
;  APPLICANT: Hopfl, Reinhard
;  TITLE OF INVENTION: Diagnostic Kit for Skin Tests, and Method
;  FILE REFERENCE: 032929-001
;  CURRENT APPLICATION NUMBER: US/09/486,394
;  CURRENT FILING DATE:  2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/04773
;  PRIOR FILING DATE: 1998-07-30
;  PRIOR APPLICATION NUMBER: DE 197 37 409.3
;  PRIOR FILING DATE: 1997-08-27
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;   LENGTH: 28
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(28)
;   OTHER INFORMATION: E7 peptide.
US-09-486-394-5

  Query Match             100.0%;  Score 54;  DB 2;  Length 28;
  Best Local Similarity   100.0%;  Pred. No. 0.037;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         20 VCPICSQKP 28


RESULT 5
US-08-934-915-54
; Sequence 54, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  54:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  30 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-54

  Query Match             100.0%;  Score 54;  DB 1;  Length 30;
  Best Local Similarity   100.0%;  Pred. No. 0.039;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         22 VCPICSQKP 30


RESULT 6
US-08-406-248-6
; Sequence 6, Application US/08406248
; Patent No. 5736318
;  GENERAL INFORMATION:
;    APPLICANT:  Munger, Karl
;    APPLICANT:  Jones, D. Leanne
;    TITLE OF INVENTION:  METHOD AND KIT FOR EVALUATING
;    TITLE OF INVENTION:  TRANSFORMED CELLS
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Ann-Louise Kerner, Ph.D., Lappin & Kusmer
;      STREET:  200 State Street
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
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;      APPLICATION NUMBER:  US/08/406,248
;      FILING DATE:
;      CLASSIFICATION:  436
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  McDaniels, Patricia A.
;      REGISTRATION NUMBER:  33,194
;      REFERENCE/DOCKET NUMBER:  HAZ-011
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-330-1300
;      TELEFAX:  617-330-1311
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  98 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-406-248-6

  Query Match             100.0%;  Score 54;  DB 1;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 7
US-08-075-541D-42
; Sequence 42, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  42:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  98 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-42

  Query Match             100.0%;  Score 54;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 8
US-09-382-616A-1
; Sequence 1, Application US/09382616A
; Patent No. 6200746
; GENERAL INFORMATION:
;  APPLICANT:  Fisher, Christopher
;  APPLICANT:  He, Wanxia
;  TITLE OF INVENTION:  Methods to Identify Anti-Viral Agents
;  FILE REFERENCE:  28341/6216
;  CURRENT APPLICATION NUMBER: US/09/382,616A
;  CURRENT FILING DATE:  1999-08-25
;  PRIOR APPLICATION NUMBER:  09/382,616
;  PRIOR FILING DATE:  1999-08-25
;  NUMBER OF SEQ ID NOS:  43
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Papillomavirus sylvilagi
US-09-382-616A-1

  Query Match             100.0%;  Score 54;  DB 2;  Length 98;
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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 9
US-08-944-368A-4
; Sequence 4, Application US/08944368A
; Patent No. 6228368
;  GENERAL INFORMATION:
;    APPLICANT:  Gissman, et al.
;    TITLE OF INVENTION:  Papilloma Virus Capsomere Vaccine
;    TITLE OF INVENTION:  Formulations and Methods of Use
;    NUMBER OF SEQUENCES:  28
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray &
;      ADDRESSEE:  Borun
;      STREET:  233 South Wacker Drive, 6300 Sears Tower
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  United States of America
;      ZIP:  60606-6402
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/944,368A
;      FILING DATE:
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Williams Jr., Joseph A.
;      REGISTRATION NUMBER:  38,659
;      REFERENCE/DOCKET NUMBER:  27013/34028
;    TELECOMMUNICATION INFORMATION:
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;      TELEPHONE:  312-474-6300
;      TELEFAX:  312-474-0448
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  98 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-944-368A-4

  Query Match             100.0%;  Score 54;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 10
US-09-820-764-4
; Sequence 4, Application US/09820764
; Patent No. 6352696
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                            FORMULATIONS AND METHODS OF USE
;        NUMBER OF SEQUENCES: 28
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: FOLEY & LARDNER
;             STREET: 3000 K Street, N.W.
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: U.S.A.
;             ZIP: 20007-5109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/820,764
;             FILING DATE: 30-Mar-2001
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US 09/026,896
;             FILING DATE: 20-FEB-1998
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Sandercock, Colin G.
;             REGISTRATION NUMBER: 31,298
;             REFERENCE/DOCKET NUMBER: 37067/102
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 672-5300
;             TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 98 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-764-4

  Query Match             100.0%;  Score 54;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 11
US-09-613-303-8
; Sequence 8, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
;  APPLICANT:  Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION:  INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE:  12071/002001
;  CURRENT APPLICATION NUMBER: US/09/613,303
;  CURRENT FILING DATE:  2000-07-10
;  PRIOR APPLICATION NUMBER:  US 60/143,757
;  PRIOR FILING DATE:  1999-07-08
;  NUMBER OF SEQ ID NOS:  55
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-09-613-303-8

  Query Match             100.0%;  Score 54;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 12
US-09-566-420-19
; Sequence 19, Application US/09566420
; Patent No. 6500641
; GENERAL INFORMATION:
;  APPLICANT:  CHEN, SI-YI AND ZHAOYANG, YOU
;  TITLE OF INVENTION:  METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
;  TITLE OF INVENTION:  IMMUNE RESPONSE
;  FILE REFERENCE:  TBA
;  CURRENT APPLICATION NUMBER:  US/09/566,420
;  CURRENT FILING DATE:  2000-05-05
;  PRIOR APPLICATION NUMBER:  60/132,752
;  PRIOR FILING DATE:  1999-05-06
;  PRIOR APPLICATION NUMBER:  60/132,750
;  PRIOR FILING DATE:  1999-05-06
;  NUMBER OF SEQ ID NOS:  19
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 19
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type E7
US-09-566-420-19

  Query Match             100.0%;  Score 54;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 13
US-09-986-118A-4
; Sequence 4, Application US/09986118A
; Patent No. 6562351
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
```

```
;                          FORMULATIONS AND METHODS OF USE
;       NUMBER OF SEQUENCES: 28
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: FOLEY & LARDNER
;            STREET: 3000 K Street, N.W.
;            CITY: Washington
;            STATE: D.C.
;            COUNTRY: U.S.A.
;            ZIP: 20007-5109
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.30
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/986,118A
;            FILING DATE: 07-No. 6562351-2001
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: US 09/026,896
;            FILING DATE: <Unknown>
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Sandercock, Colin G.
;            REGISTRATION NUMBER: 31,298
;            REFERENCE/DOCKET NUMBER: 37067/102
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (202) 672-5300
;            TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 98 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

  Query Match             100.0%;  Score 54;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 14
US-09-728-466-1
; Sequence 1, Application US/09728466
; Patent No. 6641994
; GENERAL INFORMATION:
;  APPLICANT:  Fisher, Christopher
;  APPLICANT:  He, Wanxia
;  TITLE OF INVENTION:  Methods to Identify Anti-Viral Agents
;  FILE REFERENCE:  28341/6216
;  CURRENT APPLICATION NUMBER: US/09/728,466
;  CURRENT FILING DATE:  2000-12-01
;  PRIOR APPLICATION NUMBER:  09/382,616
;  PRIOR FILING DATE:  1999-08-25
;  NUMBER OF SEQ ID NOS:  43
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Papillomavirus sylvilagi
US-09-728-466-1

  Query Match             100.0%;  Score 54;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 15
US-09-824-017-4
; Sequence 4, Application US/09824017
; Patent No. 6649167
;   GENERAL INFORMATION:
;       APPLICANT: BURGER, Alexander
;                  HALLEK, Michael
;       TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                           FORMULATIONS AND METHODS OF USE
;       NUMBER OF SEQUENCES: 28
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: FOLEY & LARDNER
;            STREET: 3000 K Street, N.W.
;            CITY: Washington
;            STATE: D.C.
;            COUNTRY: U.S.A.
;            ZIP: 20007-5109
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.30
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/824,017
;            FILING DATE: 03-Apr-2001
;            CLASSIFICATION: 424
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 09/026,896
;            FILING DATE: 1998-02-20
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Sandercock, Colin G.
;            REGISTRATION NUMBER: 31,298
;            REFERENCE/DOCKET NUMBER: 37067/102
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (202) 672-5300
;            TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 98 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-824-017-4

  Query Match             100.0%;  Score 54;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 16
US-10-267-311-8
; Sequence 8, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
```

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;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-8

  Query Match            100.0%;  Score 54;  DB 2;  Length 98;
  Best Local Similarity  100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 17
US-10-201-764-19
; Sequence 19, Application US/10201764
; Patent No. 6716623
; GENERAL INFORMATION:
;  APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
;  TITLE OF INVENTION:  IMMUNE RESPONSE
;  FILE REFERENCE: TBA
;  CURRENT APPLICATION NUMBER: US/10/201,764
;  CURRENT FILING DATE:  2002-07-22
;  PRIOR APPLICATION NUMBER: US/09/566,420
;  PRIOR FILING DATE: 2000-05-05
;  PRIOR APPLICATION NUMBER: 60/132,752
;  PRIOR FILING DATE: 1999-05-06
;  PRIOR APPLICATION NUMBER: 60/132,750
;  PRIOR FILING DATE: 1999-05-06
;  NUMBER OF SEQ ID NOS: 19
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type E7
US-10-201-764-19

  Query Match            100.0%;  Score 54;  DB 2;  Length 98;
  Best Local Similarity  100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 18
US-09-637-746-3
; Sequence 3, Application US/09637746
; Patent No. 6727079
; GENERAL INFORMATION:
;  APPLICANT: Thorgeirsson, Snorri S.
;  APPLICANT:  Woitach, Joseph T.
;  APPLICANT:  Zhang, Minghuang
;  TITLE OF INVENTION: cDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS PROTEI
;  TITLE OF INVENTION:  PRODUCT
;  FILE REFERENCE: 11613.29USW1
;  CURRENT APPLICATION NUMBER: US/09/637,746
;  CURRENT FILING DATE:  2000-08-11
;  PRIOR APPLICATION NUMBER: PCT/US99/04142
;  PRIOR FILING DATE: 1999-02-25
;  PRIOR APPLICATION NUMBER: US 60/079,567
;  PRIOR FILING DATE: 1998-03-27
;  PRIOR APPLICATION NUMBER: US 60/075,922
;  PRIOR FILING DATE: 1998-02-25
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-09-637-746-3

  Query Match            100.0%;  Score 54;  DB 2;  Length 98;
  Best Local Similarity  100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 19
US-09-501-097A-7
; Sequence 7, Application US/09501097A
; Patent No. 6734173
; GENERAL INFORMATION:
;  APPLICANT: Tzyy-Choou Wu
;  APPLICANT:  Chien-Fu Hung
;  TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
;  FILE REFERENCE: 2240-169349
;  CURRENT APPLICATION NUMBER: US/09/501,097A
;  CURRENT FILING DATE:  2000-02-09
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-09-501-097A-7

  Query Match            100.0%;  Score 54;  DB 2;  Length 98;
  Best Local Similarity  100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 20
US-09-980-523A-12
; Sequence 12, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-12

  Query Match            100.0%;  Score 54;  DB 2;  Length 98;
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```
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 21
US-09-613-303-12
; Sequence 12, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
;  APPLICANT:  Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION:  INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE:  12071/002001
;  CURRENT APPLICATION NUMBER: US/09/613,303
;  CURRENT FILING DATE:  2000-07-10
;  PRIOR APPLICATION NUMBER:  US 60/143,757
;  PRIOR FILING DATE:  1999-07-08
;  NUMBER OF SEQ ID NOS:  55
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 12
;   LENGTH: 121
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-09-613-303-12

  Query Match             100.0%;  Score 54;  DB 2;  Length 121;
  Best Local Similarity   100.0%;  Pred. No. 0.15;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        113 VCPICSQKP 121


RESULT 22
US-10-267-311-12
; Sequence 12, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
;   LENGTH: 121
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-12

  Query Match             100.0%;  Score 54;  DB 2;  Length 121;
  Best Local Similarity   100.0%;  Pred. No. 0.15;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        113 VCPICSQKP 121


RESULT 23
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

  Query Match             100.0%;  Score 54;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.21;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         58 VCPICSQKP 66


RESULT 24
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-14

  Query Match             100.0%;  Score 54;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.21;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         58 VCPICSQKP 66
```

```
RESULT 25
US-09-462-993-2
; Sequence 2, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
;  APPLICANT:  KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION:  ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE:  017753-122
;  CURRENT APPLICATION NUMBER: US/09/462,993
;  CURRENT FILING DATE:  2000-04-17
;  PRIOR APPLICATION NUMBER:  PCT/FR98/01576
;  PRIOR FILING DATE:  1998-07-17
;  PRIOR APPLICATION NUMBER:  FR 97/09152
;  PRIOR FILING DATE:  1997-07-18
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  PatentIn Ver. 2.2
; SEQ ID NO 2
;   LENGTH: 185
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Derivated from human papillomavirus, strain
;   OTHER INFORMATION: HPV-16, E7 fusion signals of the rabies
;   OTHER INFORMATION: glycoprotein, clone E7*TMR.
US-09-462-993-2

  Query Match             100.0%;  Score 54;  DB 2;  Length 185;
  Best Local Similarity   100.0%;  Pred. No. 0.22;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        109 VCPICSQKP 117


RESULT 26
US-09-613-303-35
; Sequence 35, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
;  APPLICANT:  Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION:  INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE:  12071/002001
;  CURRENT APPLICATION NUMBER: US/09/613,303
;  CURRENT FILING DATE:  2000-07-10
;  PRIOR APPLICATION NUMBER:  US 60/143,757
;  PRIOR FILING DATE:  1999-07-08
;  NUMBER OF SEQ ID NOS:  55
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 35
;   LENGTH: 198
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-09-613-303-35

  Query Match             100.0%;  Score 54;  DB 2;  Length 198;
  Best Local Similarity   100.0%;  Pred. No. 0.24;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        190 VCPICSQKP 198


RESULT 27
US-10-267-311-35
; Sequence 35, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 35
;   LENGTH: 198
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-35

  Query Match             100.0%;  Score 54;  DB 2;  Length 198;
  Best Local Similarity   100.0%;  Pred. No. 0.24;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        190 VCPICSQKP 198


RESULT 28
US-09-485-885-1
; Sequence 1, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 1
;   LENGTH: 220
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-1

  Query Match             100.0%;  Score 54;  DB 2;  Length 220;
  Best Local Similarity   100.0%;  Pred. No. 0.26;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        203 VCPICSQKP 211


RESULT 29
US-09-485-885-8
; Sequence 8, Application US/09485885
```

```
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 8
;   LENGTH: 220
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-8

  Query Match             100.0%;  Score 54;  DB 2;  Length 220;
  Best Local Similarity   100.0%;  Pred. No. 0.26;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        203 VCPICSQKP 211


RESULT 30
US-09-485-885-12
; Sequence 12, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 12
;   LENGTH: 239
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-12

  Query Match             100.0%;  Score 54;  DB 2;  Length 239;
  Best Local Similarity   100.0%;  Pred. No. 0.28;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        222 VCPICSQKP 230


RESULT 31
US-08-459-818-20
; Sequence 20, Application US/08459818
; Patent No. 5851795
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  27
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  FastSeq 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/459,818
;      FILING DATE:  02-JUN-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436.35US02
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  253 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-459-818-20

  Query Match             100.0%;  Score 54;  DB 1;  Length 253;
  Best Local Similarity   100.0%;  Pred. No. 0.3;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        245 VCPICSQKP 253


RESULT 32
US-08-889-666-20
; Sequence 20, Application US/08889666
; Patent No. 5885579
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Kiener, Peter A.
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/889,666
;      FILING DATE:  08-JUL-1997
```

```
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/375390
;      FILING DATE:  18-JAN-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-35US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  253 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-889-666-20

  Query Match             100.0%;  Score 54;  DB 1;  Length 253;
  Best Local Similarity   100.0%;  Pred. No. 0.3;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        245 VCPICSQKP 253


RESULT 33
US-08-465-078-20
; Sequence 20, Application US/08465078
; Patent No. 5885796
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Kiener, Peter A.
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/465,078
;      FILING DATE:  05-JUN-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/375390
;      FILING DATE:  18-JAN-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-35US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  253 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-465-078-20

  Query Match             100.0%;  Score 54;  DB 1;  Length 253;
  Best Local Similarity   100.0%;  Pred. No. 0.3;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        245 VCPICSQKP 253


RESULT 34
US-08-725-776-20
; Sequence 20, Application US/08725776
; Patent No. 5968510
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Kiener, Peter A.
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/725,776
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/375390
;      FILING DATE:  18-JAN-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-35US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  253 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-725-776-20

  Query Match             100.0%;  Score 54;  DB 1;  Length 253;
  Best Local Similarity   100.0%;  Pred. No. 0.3;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        245 VCPICSQKP 253


RESULT 35
US-08-488-062-20
; Sequence 20, Application US/08488062
; Patent No. 5977318
```

```
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Kiener, Peter A.
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/488,062
;      FILING DATE:  07-JUN-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/375390
;      FILING DATE:  18-JAN-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-35US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  253 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-488-062-20

  Query Match             100.0%;  Score 54;  DB 1;  Length 253;
  Best Local Similarity   100.0%;  Pred. No. 0.3;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        245 VCPICSQKP 253


RESULT 36
US-08-117-083-9
; Sequence 9, Application US/08117083
; Patent No. 5719054
;  GENERAL INFORMATION:
;    APPLICANT:  Boursnell, Michael E.
;    APPLICANT:  Inglis, Stephen C.
;    APPLICANT:  Munro, Alan J.
;    TITLE OF INVENTION:  Recombinant Virus Vectors Encoding Human
;    TITLE OF INVENTION:  Papilloma Virus Proteins
;    NUMBER OF SEQUENCES:  70
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Walter H. Dreger
;      STREET:  4 Embarcadero Center, Suite 3400
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/117,083
;      FILING DATE:  10-SEP-1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Dreger, Walter H.
;      REGISTRATION NUMBER:  24,190
;      REFERENCE/DOCKET NUMBER:  A-58783
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-781-1989
;      TELEFAX:  415-398-3249
;      TELEX:  910 277299
;  INFORMATION FOR SEQ ID NO:  9:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  263 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    FEATURE:
;      NAME/KEY:  Protein
;      LOCATION:  1..263
;      OTHER INFORMATION:  /note= "Xaa refers to stop codon in
;      OTHER INFORMATION:  the open reading frame."
US-08-117-083-9

  Query Match             100.0%;  Score 54;  DB 1;  Length 263;
  Best Local Similarity   100.0%;  Pred. No. 0.31;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        251 VCPICSQKP 259


RESULT 37
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

  Query Match             100.0%;  Score 54;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.31;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        250 VCPICSQKP 258
```

```
RESULT 38
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-10

  Query Match             100.0%;  Score 54;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.31;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        250 VCPICSQKP 258


RESULT 39
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 54;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.31;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        250 VCPICSQKP 258


RESULT 40
US-09-501-097A-25
; Sequence 25, Application US/09501097A
; Patent No. 6734173
; GENERAL INFORMATION:
;  APPLICANT: Tzyy-Choou Wu
;  APPLICANT:  Chien-Fu Hung
;  TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
;  FILE REFERENCE: 2240-169349
;  CURRENT APPLICATION NUMBER: US/09/501,097A
;  CURRENT FILING DATE:  2000-02-09
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 25
;   LENGTH: 287
;   TYPE: PRT
;   ORGANISM: Human papillomavirus/Mouse
US-09-501-097A-25

  Query Match             100.0%;  Score 54;  DB 2;  Length 287;
  Best Local Similarity   100.0%;  Pred. No. 0.34;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        279 VCPICSQKP 287


RESULT 41
US-09-613-303-33
; Sequence 33, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
;  APPLICANT:  Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION:  INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE:  12071/002001
;  CURRENT APPLICATION NUMBER: US/09/613,303
;  CURRENT FILING DATE:  2000-07-10
;  PRIOR APPLICATION NUMBER:  US 60/143,757
;  PRIOR FILING DATE:  1999-07-08
;  NUMBER OF SEQ ID NOS:  55
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 33
;   LENGTH: 295
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-09-613-303-33

  Query Match             100.0%;  Score 54;  DB 2;  Length 295;
  Best Local Similarity   100.0%;  Pred. No. 0.35;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        287 VCPICSQKP 295


RESULT 42
US-10-267-311-33
; Sequence 33, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
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;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 33
;   LENGTH: 295
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-33

  Query Match            100.0%;  Score 54;  DB 2;  Length 295;
  Best Local Similarity  100.0%;  Pred. No. 0.35;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        287 VCPICSQKP 295


RESULT 43
US-09-613-303-25
; Sequence 25, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
;  APPLICANT:  Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION:  INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE:  12071/002001
;  CURRENT APPLICATION NUMBER: US/09/613,303
;  CURRENT FILING DATE:  2000-07-10
;  PRIOR APPLICATION NUMBER:  US 60/143,757
;  PRIOR FILING DATE:  1999-07-08
;  NUMBER OF SEQ ID NOS:  55
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 25
;   LENGTH: 324
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-09-613-303-25

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Qy          1 VCPICSQKP 9
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Db        316 VCPICSQKP 324


RESULT 44
US-10-267-311-25
; Sequence 25, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 25
;   LENGTH: 324
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-25

  Query Match            100.0%;  Score 54;  DB 2;  Length 324;
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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        316 VCPICSQKP 324


RESULT 45
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
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;   LENGTH: 371
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;   ORGANISM: Homo sapien
US-09-485-885-6

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Qy          1 VCPICSQKP 9
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Db        354 VCPICSQKP 362


RESULT 46
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 14
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;   ORGANISM: Homo sapien
US-09-485-885-14
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Db        373 VCPICSQKP 381


RESULT 47
US-09-613-303-19
; Sequence 19, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
;  APPLICANT:  Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION:  INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE:  12071/002001
;  CURRENT APPLICATION NUMBER: US/09/613,303
;  CURRENT FILING DATE:  2000-07-10
;  PRIOR APPLICATION NUMBER:  US 60/143,757
;  PRIOR FILING DATE:  1999-07-08
;  NUMBER OF SEQ ID NOS:  55
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 19
;   LENGTH: 493
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-09-613-303-19

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              |||||||||
Db        485 VCPICSQKP 493


RESULT 48
US-10-267-311-19
; Sequence 19, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 19
;   LENGTH: 493
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-19

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Qy          1 VCPICSQKP 9
              |||||||||
Db        485 VCPICSQKP 493


RESULT 49
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; Sequence 17, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
;  APPLICANT:  Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION:  INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE:  12071/002001
;  CURRENT APPLICATION NUMBER: US/09/613,303
;  CURRENT FILING DATE:  2000-07-10
;  PRIOR APPLICATION NUMBER:  US 60/143,757
;  PRIOR FILING DATE:  1999-07-08
;  NUMBER OF SEQ ID NOS:  55
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 17
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;   TYPE: PRT
;   ORGANISM: Artificial Sequence
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US-09-613-303-17

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Db        631 VCPICSQKP 639


RESULT 50
US-10-267-311-17
; Sequence 17, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
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;   LENGTH: 639
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;   OTHER INFORMATION: fusion sequence
US-10-267-311-17

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Qy          1 VCPICSQKP 9
              |||||||||
Db        631 VCPICSQKP 639
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Job time : 24.9 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:39:55 ; Search time 56.3 Seconds
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66.793 Million cell updates/sec

Title: US-08-170-344-64
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Sequence: 1 VCPICSQKP 9

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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| 58 | 54 | 100.0 | 639 | 5 | US-10-679-956-17 | Sequence 17, Appl |
| 59 | 54 | 100.0 | 641 | 4 | US-10-267-311-51 | Sequence 51, Appl |
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| 71 | 54 | 100.0 | 805 | 4 | US-10-367-367-9 | Sequence 9, Appli |
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| 79 | 47 | 87.0 | 9 | 5 | US-10-924-377-19 | Sequence 19, Appl |
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| 84 | 47 | 87.0 | 14 | 5 | US-10-603-062-32 | Sequence 32, Appl |
| 85 | 47 | 87.0 | 16 | 3 | US-09-759-960-25 | Sequence 25, Appl |
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| 93 | 44 | 81.5 | 126 | 4 | US-10-424-599-159020 | Sequence 159020, |
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| 96 | 44 | 81.5 | 270 | 3 | US-09-833-245-1832 | Sequence 1832, Ap |
| 97 | 44 | 81.5 | 270 | 4 | US-10-091-458-48 | Sequence 48, Appl |
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| 99 | 44 | 81.5 | 357 | 4 | US-10-164-278-10 | Sequence 10, Appl |
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| 101 | 44 | 81.5 | 377 | 4 | US-10-425-114-49469 | Sequence 49469, A |
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| 109 | 44 | 81.5 | 685 | 4 | US-10-108-260A-3546 | Sequence 3546, Ap |
| 110 | 44 | 81.5 | 685 | 4 | US-10-263-929-116 | Sequence 116, App |
| 111 | 44 | 81.5 | 685 | 4 | US-10-451-417-2 | Sequence 2, Appli |
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| 114 | 44 | 81.5 | 867 | 4 | US-10-112-944-424 | Sequence 424, App |
| 115 | 44 | 81.5 | 1214 | 4 | US-10-425-115-366843 | Sequence 366843, |
| 116 | 43 | 79.6 | 1496 | 4 | US-10-177-293-70 | Sequence 70, Appl |
| 117 | 43 | 79.6 | 1496 | 4 | US-10-301-822-35 | Sequence 35, Appl |
| 118 | 43 | 79.6 | 1496 | 4 | US-10-236-031B-74 | Sequence 74, Appl |
| 119 | 43 | 79.6 | 1496 | 4 | US-10-468-091-22 | Sequence 22, Appl |
| 120 | 43 | 79.6 | 1496 | 4 | US-10-788-792-248 | Sequence 248, App |
| 121 | 43 | 79.6 | 1496 | 5 | US-10-287-436A-500 | Sequence 500, App |
| 122 | 43 | 79.6 | 1496 | 5 | US-10-287-436A-589 | Sequence 589, App |
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| 125 | 42 | 77.8 | 99 | 4 | US-10-115-440-7 | Sequence 7, Appli |
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| 127 | 42 | 77.8 | 128 | 4 | US-10-094-749-2982 | Sequence 2982, Ap |
| 128 | 42 | 77.8 | 237 | 4 | US-10-408-765A-2373 | Sequence 2373, Ap |
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| 131 | 42 | 77.8 | 289 | 4 | US-10-115-440-5 | Sequence 5, Appli |
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| 139 | 40 | 74.1 | 193 | 4 | US-10-425-115-368667 | Sequence 368667, |
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| 146 | 40 | 74.1 | 231 | 3 | US-09-764-864-1292 | Sequence 1292, Ap |
| 147 | 40 | 74.1 | 231 | 4 | US-10-106-698-6403 | Sequence 6403, Ap |
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| 153 | 40 | 74.1 | 978 | 4 | US-10-369-493-3759 | Sequence 3759, Ap |
| 154 | 40 | 74.1 | 1175 | 5 | US-10-732-923-8656 | Sequence 8656, Ap |
| 155 | 40 | 74.1 | 1332 | 6 | US-11-097-143-14703 | Sequence 14703, A |
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| 159 | 39 | 72.2 | 176 | 6 | US-11-145-198-16 | Sequence 16, Appl |
| 160 | 39 | 72.2 | 176 | 6 | US-11-145-498-16 | Sequence 16, Appl |
| 161 | 39 | 72.2 | 176 | 6 | US-11-145-193-16 | Sequence 16, Appl |
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| 164 | 39 | 72.2 | 238 | 4 | US-10-437-963-203753 | Sequence 203753, |
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| 166 | 39 | 72.2 | 250 | 5 | US-10-732-923-18945 | Sequence 18945, A |
| 167 | 39 | 72.2 | 296 | 4 | US-10-425-114-65341 | Sequence 65341, A |
| 168 | 39 | 72.2 | 298 | 4 | US-10-425-114-41325 | Sequence 41325, A |
| 169 | 39 | 72.2 | 337 | 4 | US-10-425-115-279087 | Sequence 279087, |
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| 171 | 39 | 72.2 | 508 | 5 | US-10-739-930-7858 | Sequence 7858, Ap |
| 172 | 39 | 72.2 | 536 | 6 | US-11-097-143-21732 | Sequence 21732, A |
| 173 | 39 | 72.2 | 644 | 6 | US-11-097-143-38100 | Sequence 38100, A |
| 174 | 39 | 72.2 | 696 | 6 | US-11-097-143-26025 | Sequence 26025, A |
| 175 | 39 | 72.2 | 708 | 6 | US-11-097-143-4833 | Sequence 4833, Ap |
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| 178 | 39 | 72.2 | 1100 | 5 | US-10-450-763-45281 | Sequence 45281, A |
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| 183 | 38 | 70.4 | 9 | 5 | US-10-871-138-64 | Sequence 64, Appl |
| 184 | 38 | 70.4 | 10 | 3 | US-09-891-823-62 | Sequence 62, Appl |
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| 202 | 38 | 70.4 | 259 | 4 | US-10-633-680-127 | Sequence 127, App |
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| 204 | 38 | 70.4 | 296 | 3 | US-09-925-300-1231 | Sequence 1231, Ap |
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| 212 | 38 | 70.4 | 463 | 4 | US-10-264-237-1725 | Sequence 1725, Ap |
| 213 | 38 | 70.4 | 463 | 4 | US-10-422-536-107 | Sequence 107, App |
| 214 | 38 | 70.4 | 463 | 4 | US-10-232-951-5 | Sequence 5, Appli |
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| 234 | 37 | 68.5 | 9 | 4 | US-10-777-053-548 | Sequence 548, App |
| 235 | 37 | 68.5 | 9 | 4 | US-10-837-217-548 | Sequence 548, App |
| 236 | 37 | 68.5 | 9 | 5 | US-10-871-138-21 | Sequence 21, Appl |
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| 245 | 37 | 68.5 | 108 | 4 | US-10-767-701-59105 | Sequence 59105, A |
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| 390 | 36 | 66.7 | 1070 | 5 | US-10-732-923-8605 | Sequence 8605, Ap |
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| 392 | 36 | 66.7 | 1477 | 4 | US-10-274-583-20 | Sequence 20, Appl |

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| 393 | 36 | 66.7 | 1479 | 4 | US-10-231-956A-325 | Sequence 325, App |
| 394 | 36 | 66.7 | 1496 | 4 | US-10-021-660-125 | Sequence 125, App |
| 395 | 36 | 66.7 | 1496 | 4 | US-10-331-496A-28 | Sequence 28, Appl |
| 396 | 36 | 66.7 | 1496 | 4 | US-10-211-462-87 | Sequence 87, Appl |
| 397 | 36 | 66.7 | 1496 | 5 | US-10-723-860-1721 | Sequence 1721, Ap |
| 398 | 36 | 66.7 | 1496 | 5 | US-10-496-905-616 | Sequence 616, App |
| 399 | 36 | 66.7 | 1496 | 5 | US-10-745-237-344 | Sequence 344, App |
| 400 | 36 | 66.7 | 1496 | 5 | US-10-745-237-350 | Sequence 350, App |
| 401 | 36 | 66.7 | 1498 | 4 | US-10-243-552-899 | Sequence 899, App |
| 402 | 36 | 66.7 | 1498 | 4 | US-10-276-774-1957 | Sequence 1957, Ap |
| 403 | 36 | 66.7 | 1574 | 4 | US-10-437-963-150749 | Sequence 150749, |
| 404 | 35.5 | 65.7 | 134 | 4 | US-10-029-386-31669 | Sequence 31669, A |
| 405 | 35.5 | 65.7 | 139 | 4 | US-10-029-386-31839 | Sequence 31839, A |
| 406 | 35.5 | 65.7 | 143 | 4 | US-10-106-698-4410 | Sequence 4410, Ap |
| 407 | 35.5 | 65.7 | 153 | 3 | US-09-864-761-47706 | Sequence 47706, A |
| 408 | 35.5 | 65.7 | 240 | 4 | US-10-425-115-263540 | Sequence 263540, |
| 409 | 35.5 | 65.7 | 244 | 5 | US-10-450-763-53594 | Sequence 53594, A |
| 410 | 35.5 | 65.7 | 272 | 5 | US-10-450-763-35435 | Sequence 35435, A |
| 411 | 35.5 | 65.7 | 424 | 5 | US-10-450-763-49780 | Sequence 49780, A |
| 412 | 35 | 64.8 | 20 | 4 | US-10-231-417-601 | Sequence 601, App |
| 413 | 35 | 64.8 | 20 | 5 | US-10-942-711-19 | Sequence 19, Appl |
| 414 | 35 | 64.8 | 32 | 3 | US-09-989-919-119 | Sequence 119, App |
| 415 | 35 | 64.8 | 45 | 5 | US-10-743-280A-34 | Sequence 34, Appl |
| 416 | 35 | 64.8 | 55 | 4 | US-10-424-599-209089 | Sequence 209089, |
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| 422 | 35 | 64.8 | 77 | 4 | US-10-425-115-337780 | Sequence 337780, |
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| 459 | 35 | 64.8 | 150 | 4 | US-10-767-701-34599 | Sequence 34599, A |
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| 462 | 35 | 64.8 | 178 | 4 | US-10-437-963-122297 | Sequence 122297, |
| 463 | 35 | 64.8 | 180 | 5 | US-10-450-763-34032 | Sequence 34032, A |
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| 478 | 35 | 64.8 | 241 | 4 | US-10-425-114-42342 | Sequence 42342, A |
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| 489 | 35 | 64.8 | 287 | 4 | US-10-425-115-239017 | Sequence 239017, |
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| 491 | 35 | 64.8 | 300 | 5 | US-10-450-763-47907 | Sequence 47907, A |
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| 493 | 35 | 64.8 | 309 | 5 | US-10-450-763-45026 | Sequence 45026, A |
| 494 | 35 | 64.8 | 310 | 5 | US-10-504-582-106 | Sequence 106, App |
| 495 | 35 | 64.8 | 319 | 4 | US-10-424-599-272810 | Sequence 272810, |
| 496 | 35 | 64.8 | 324 | 5 | US-10-450-763-37369 | Sequence 37369, A |
| 497 | 35 | 64.8 | 325 | 4 | US-10-437-963-104828 | Sequence 104828, |
| 498 | 35 | 64.8 | 330 | 3 | US-09-864-761-42953 | Sequence 42953, A |
| 499 | 35 | 64.8 | 330 | 4 | US-10-029-386-32639 | Sequence 32639, A |
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| 513 | 35 | 64.8 | 351 | 4 | US-10-287-971-22 | Sequence 22, Appl |
| 514 | 35 | 64.8 | 353 | 4 | US-10-087-192-1179 | Sequence 1179, Ap |
| 515 | 35 | 64.8 | 356 | 4 | US-10-425-114-41820 | Sequence 41820, A |
| 516 | 35 | 64.8 | 356 | 4 | US-10-425-114-56111 | Sequence 56111, A |
| 517 | 35 | 64.8 | 361 | 5 | US-10-450-763-34374 | Sequence 34374, A |
| 518 | 35 | 64.8 | 364 | 4 | US-10-425-114-65762 | Sequence 65762, A |
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| 522 | 35 | 64.8 | 374 | 4 | US-10-767-701-43465 | Sequence 43465, A |
| 523 | 35 | 64.8 | 376 | 4 | US-10-425-115-239016 | Sequence 239016, |
| 524 | 35 | 64.8 | 385 | 4 | US-10-425-114-70324 | Sequence 70324, A |
| 525 | 35 | 64.8 | 415 | 5 | US-10-450-763-44523 | Sequence 44523, A |
| 526 | 35 | 64.8 | 434 | 4 | US-10-243-552-384 | Sequence 384, App |
| 527 | 35 | 64.8 | 450 | 5 | US-10-739-930-10185 | Sequence 10185, A |
| 528 | 35 | 64.8 | 467 | 4 | US-10-437-963-174541 | Sequence 174541, |
| 529 | 35 | 64.8 | 471 | 5 | US-10-450-763-33335 | Sequence 33335, A |
| 530 | 35 | 64.8 | 489 | 5 | US-10-450-763-34875 | Sequence 34875, A |
| 531 | 35 | 64.8 | 491 | 4 | US-10-087-192-1182 | Sequence 1182, Ap |
| 532 | 35 | 64.8 | 492 | 4 | US-10-104-047-2254 | Sequence 2254, Ap |
| 533 | 35 | 64.8 | 507 | 5 | US-10-450-763-45028 | Sequence 45028, A |
| 534 | 35 | 64.8 | 512 | 5 | US-10-450-763-35440 | Sequence 35440, A |
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| 537 | 35 | 64.8 | 537 | 4 | US-10-425-115-229479 | Sequence 229479, |
| 538 | 35 | 64.8 | 537 | 5 | US-10-723-860-3498 | Sequence 3498, Ap |

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| 540 | 35 | 64.8 | 560 | 5 | US-10-450-763-44845 | Sequence 44845, A |
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| 542 | 35 | 64.8 | 587 | 6 | US-11-097-143-40137 | Sequence 40137, A |
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| 544 | 35 | 64.8 | 613 | 4 | US-10-408-765A-2165 | Sequence 2165, Ap |
| 545 | 35 | 64.8 | 616 | 6 | US-11-097-143-14439 | Sequence 14439, A |
| 546 | 35 | 64.8 | 627 | 5 | US-10-450-763-44528 | Sequence 44528, A |
| 547 | 35 | 64.8 | 638 | 5 | US-10-450-763-33917 | Sequence 33917, A |
| 548 | 35 | 64.8 | 657 | 4 | US-10-029-386-32910 | Sequence 32910, A |
| 549 | 35 | 64.8 | 657 | 4 | US-10-655-799-37 | Sequence 37, Appl |
| 550 | 35 | 64.8 | 658 | 5 | US-10-450-763-34002 | Sequence 34002, A |
| 551 | 35 | 64.8 | 664 | 3 | US-09-898-533-2 | Sequence 2, Appli |
| 552 | 35 | 64.8 | 664 | 4 | US-10-176-847-40 | Sequence 40, Appl |
| 553 | 35 | 64.8 | 664 | 5 | US-10-482-029-10 | Sequence 10, Appl |
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| 555 | 35 | 64.8 | 673 | 4 | US-10-276-774-2184 | Sequence 2184, Ap |
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| 558 | 35 | 64.8 | 688 | 5 | US-10-450-763-39167 | Sequence 39167, A |
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| 560 | 35 | 64.8 | 697 | 4 | US-10-437-963-112151 | Sequence 112151, |
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| 562 | 35 | 64.8 | 714 | 4 | US-10-424-599-143513 | Sequence 143513, |
| 563 | 35 | 64.8 | 730 | 5 | US-10-450-763-37375 | Sequence 37375, A |
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| 565 | 35 | 64.8 | 790 | 5 | US-10-450-763-44895 | Sequence 44895, A |
| 566 | 35 | 64.8 | 791 | 5 | US-10-450-763-36644 | Sequence 36644, A |
| 567 | 35 | 64.8 | 793 | 6 | US-11-097-143-41856 | Sequence 41856, A |
| 568 | 35 | 64.8 | 798 | 4 | US-10-655-799-39 | Sequence 39, Appl |
| 569 | 35 | 64.8 | 860 | 5 | US-10-450-763-44548 | Sequence 44548, A |
| 570 | 35 | 64.8 | 864 | 5 | US-10-450-763-37939 | Sequence 37939, A |
| 571 | 35 | 64.8 | 893 | 5 | US-10-450-763-38537 | Sequence 38537, A |
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| 573 | 35 | 64.8 | 904 | 5 | US-10-450-763-46040 | Sequence 46040, A |
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| 579 | 35 | 64.8 | 940 | 3 | US-09-811-088-11 | Sequence 11, Appl |
| 580 | 35 | 64.8 | 940 | 4 | US-10-314-410-11 | Sequence 11, Appl |
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| 583 | 35 | 64.8 | 991 | 5 | US-10-450-763-34036 | Sequence 34036, A |
| 584 | 35 | 64.8 | 1002 | 3 | US-09-812-471-3 | Sequence 3, Appli |
| 585 | 35 | 64.8 | 1002 | 3 | US-09-812-633-3 | Sequence 3, Appli |
| 586 | 35 | 64.8 | 1002 | 3 | US-09-988-117-3 | Sequence 3, Appli |
| 587 | 35 | 64.8 | 1002 | 4 | US-10-765-520-3 | Sequence 3, Appli |
| 588 | 35 | 64.8 | 1002 | 5 | US-10-828-815-3 | Sequence 3, Appli |
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| 590 | 35 | 64.8 | 1005 | 3 | US-09-812-633-1 | Sequence 1, Appli |
| 591 | 35 | 64.8 | 1005 | 3 | US-09-988-117-1 | Sequence 1, Appli |
| 592 | 35 | 64.8 | 1005 | 4 | US-10-197-824-29 | Sequence 29, Appl |
| 593 | 35 | 64.8 | 1005 | 4 | US-10-765-520-1 | Sequence 1, Appli |
| 594 | 35 | 64.8 | 1005 | 5 | US-10-828-815-1 | Sequence 1, Appli |
| 595 | 35 | 64.8 | 1007 | 4 | US-10-144-198-36 | Sequence 36, Appl |
| 596 | 35 | 64.8 | 1007 | 4 | US-10-197-824-38 | Sequence 38, Appl |
| 597 | 35 | 64.8 | 1007 | 5 | US-10-486-977-24 | Sequence 24, Appl |
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| 600 | 35 | 64.8 | 1041 | 4 | US-10-144-198-14 | Sequence 14, Appl |
| 601 | 35 | 64.8 | 1053 | 4 | US-10-087-192-1032 | Sequence 1032, Ap |
| 602 | 35 | 64.8 | 1053 | 4 | US-10-173-999-97 | Sequence 97, Appl |
| 603 | 35 | 64.8 | 1053 | 4 | US-10-188-832-51 | Sequence 51, Appl |
| 604 | 35 | 64.8 | 1053 | 5 | US-10-751-736-107 | Sequence 107, App |
| 605 | 35 | 64.8 | 1077 | 4 | US-10-408-765A-2871 | Sequence 2871, Ap |
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| 607 | 35 | 64.8 | 1171 | 4 | US-10-437-963-182437 | Sequence 182437, |
| 608 | 35 | 64.8 | 1418 | 4 | US-10-369-493-665 | Sequence 665, App |
| 609 | 35 | 64.8 | 1418 | 5 | US-10-732-923-8588 | Sequence 8588, Ap |
| 610 | 35 | 64.8 | 1427 | 4 | US-10-437-963-149395 | Sequence 149395, |
| 611 | 35 | 64.8 | 1845 | 4 | US-10-408-765A-1351 | Sequence 1351, Ap |
| 612 | 35 | 64.8 | 1869 | 6 | US-11-097-143-3540 | Sequence 3540, Ap |
| 613 | 34.5 | 63.9 | 21 | 5 | US-10-942-711-24 | Sequence 24, Appl |
| 614 | 34.5 | 63.9 | 95 | 4 | US-10-029-386-29965 | Sequence 29965, A |
| 615 | 34.5 | 63.9 | 95 | 4 | US-10-029-386-31287 | Sequence 31287, A |
| 616 | 34.5 | 63.9 | 288 | 4 | US-10-408-765A-2236 | Sequence 2236, Ap |
| 617 | 34.5 | 63.9 | 288 | 4 | US-10-839-882-10 | Sequence 10, Appl |
| 618 | 34.5 | 63.9 | 317 | 4 | US-10-291-265-428 | Sequence 428, App |
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| 621 | 34.5 | 63.9 | 378 | 4 | US-10-094-749-2326 | Sequence 2326, Ap |
| 622 | 34 | 63.0 | 9 | 3 | US-09-891-823-74 | Sequence 74, Appl |
| 623 | 34 | 63.0 | 9 | 4 | US-10-365-908-74 | Sequence 74, Appl |
| 624 | 34 | 63.0 | 9 | 5 | US-10-871-138-74 | Sequence 74, Appl |
| 625 | 34 | 63.0 | 20 | 4 | US-10-425-115-204671 | Sequence 204671, |
| 626 | 34 | 63.0 | 25 | 4 | US-10-094-507-37 | Sequence 37, Appl |
| 627 | 34 | 63.0 | 28 | 4 | US-10-283-500-21 | Sequence 21, Appl |
| 628 | 34 | 63.0 | 44 | 4 | US-10-283-500-5 | Sequence 5, Appli |
| 629 | 34 | 63.0 | 44 | 4 | US-10-424-599-205051 | Sequence 205051, |
| 630 | 34 | 63.0 | 47 | 4 | US-10-437-963-104287 | Sequence 104287, |
| 631 | 34 | 63.0 | 60 | 4 | US-10-425-115-249775 | Sequence 249775, |
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| 633 | 34 | 63.0 | 62 | 3 | US-09-764-891-5384 | Sequence 5384, Ap |
| 634 | 34 | 63.0 | 62 | 4 | US-10-091-414-222 | Sequence 222, App |
| 635 | 34 | 63.0 | 64 | 3 | US-09-925-298-787 | Sequence 787, App |
| 636 | 34 | 63.0 | 64 | 4 | US-10-102-806-787 | Sequence 787, App |
| 637 | 34 | 63.0 | 65 | 4 | US-10-106-698-4294 | Sequence 4294, Ap |
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| 888 | 34 | 63.0 | 325 | 4 | US-10-152-395-516 | Sequence 516, App |
| 889 | 34 | 63.0 | 325 | 4 | US-10-125-926A-516 | Sequence 516, App |
| 890 | 34 | 63.0 | 325 | 4 | US-10-125-930A-516 | Sequence 516, App |
| 891 | 34 | 63.0 | 325 | 4 | US-10-127-831A-516 | Sequence 516, App |
| 892 | 34 | 63.0 | 325 | 4 | US-10-127-837A-516 | Sequence 516, App |
| 893 | 34 | 63.0 | 325 | 4 | US-10-127-838B-516 | Sequence 516, App |
| 894 | 34 | 63.0 | 325 | 4 | US-10-127-842A-516 | Sequence 516, App |
| 895 | 34 | 63.0 | 325 | 4 | US-10-127-843A-516 | Sequence 516, App |
| 896 | 34 | 63.0 | 325 | 4 | US-10-127-845A-516 | Sequence 516, App |
| 897 | 34 | 63.0 | 325 | 4 | US-10-127-846A-516 | Sequence 516, App |
| 898 | 34 | 63.0 | 325 | 4 | US-10-127-848A-516 | Sequence 516, App |
| 899 | 34 | 63.0 | 325 | 4 | US-10-127-849A-516 | Sequence 516, App |
| 900 | 34 | 63.0 | 325 | 4 | US-10-127-850A-516 | Sequence 516, App |
| 901 | 34 | 63.0 | 325 | 4 | US-10-127-851A-516 | Sequence 516, App |
| 902 | 34 | 63.0 | 325 | 4 | US-10-128-684A-516 | Sequence 516, App |
| 903 | 34 | 63.0 | 325 | 4 | US-10-128-686A-516 | Sequence 516, App |
| 904 | 34 | 63.0 | 325 | 4 | US-10-128-690A-516 | Sequence 516, App |
| 905 | 34 | 63.0 | 325 | 4 | US-10-128-691A-516 | Sequence 516, App |
| 906 | 34 | 63.0 | 325 | 4 | US-10-131-819A-516 | Sequence 516, App |
| 907 | 34 | 63.0 | 325 | 4 | US-10-131-829A-516 | Sequence 516, App |
| 908 | 34 | 63.0 | 325 | 4 | US-10-131-836A-516 | Sequence 516, App |
| 909 | 34 | 63.0 | 325 | 4 | US-10-146-729-516 | Sequence 516, App |
| 910 | 34 | 63.0 | 325 | 4 | US-10-146-791-516 | Sequence 516, App |
| 911 | 34 | 63.0 | 325 | 4 | US-10-147-484-516 | Sequence 516, App |
| 912 | 34 | 63.0 | 325 | 4 | US-10-147-508-516 | Sequence 516, App |
| 913 | 34 | 63.0 | 325 | 4 | US-10-147-512-516 | Sequence 516, App |
| 914 | 34 | 63.0 | 325 | 4 | US-10-175-735-516 | Sequence 516, App |
| 915 | 34 | 63.0 | 325 | 4 | US-10-121-040-516 | Sequence 516, App |
| 916 | 34 | 63.0 | 325 | 4 | US-10-121-056-516 | Sequence 516, App |
| 917 | 34 | 63.0 | 325 | 4 | US-10-121-061-516 | Sequence 516, App |
| 918 | 34 | 63.0 | 325 | 4 | US-10-123-235-516 | Sequence 516, App |
| 919 | 34 | 63.0 | 325 | 4 | US-10-124-818-516 | Sequence 516, App |
| 920 | 34 | 63.0 | 325 | 4 | US-10-137-868-516 | Sequence 516, App |
| 921 | 34 | 63.0 | 325 | 4 | US-10-147-492-516 | Sequence 516, App |
| 922 | 34 | 63.0 | 325 | 4 | US-10-158-782-516 | Sequence 516, App |
| 923 | 34 | 63.0 | 325 | 4 | US-10-123-905-516 | Sequence 516, App |
| 924 | 34 | 63.0 | 325 | 4 | US-10-123-907-516 | Sequence 516, App |
| 925 | 34 | 63.0 | 325 | 4 | US-10-124-815-516 | Sequence 516, App |
| 926 | 34 | 63.0 | 325 | 4 | US-10-125-921A-516 | Sequence 516, App |
| 927 | 34 | 63.0 | 325 | 4 | US-10-125-928A-516 | Sequence 516, App |
| 928 | 34 | 63.0 | 325 | 4 | US-10-127-821A-516 | Sequence 516, App |
| 929 | 34 | 63.0 | 325 | 4 | US-10-127-822A-516 | Sequence 516, App |
| 930 | 34 | 63.0 | 325 | 4 | US-10-127-824A-516 | Sequence 516, App |
| 931 | 34 | 63.0 | 325 | 4 | US-10-127-826A-516 | Sequence 516, App |
| 932 | 34 | 63.0 | 325 | 4 | US-10-127-827A-516 | Sequence 516, App |
| 933 | 34 | 63.0 | 325 | 4 | US-10-127-828A-516 | Sequence 516, App |
| 934 | 34 | 63.0 | 325 | 4 | US-10-127-830A-516 | Sequence 516, App |
| 935 | 34 | 63.0 | 325 | 4 | US-10-127-832A-516 | Sequence 516, App |
| 936 | 34 | 63.0 | 325 | 4 | US-10-127-833A-516 | Sequence 516, App |
| 937 | 34 | 63.0 | 325 | 4 | US-10-127-834A-516 | Sequence 516, App |
| 938 | 34 | 63.0 | 325 | 4 | US-10-127-836A-516 | Sequence 516, App |
| 939 | 34 | 63.0 | 325 | 4 | US-10-127-841A-516 | Sequence 516, App |
| 940 | 34 | 63.0 | 325 | 4 | US-10-127-844A-516 | Sequence 516, App |
| 941 | 34 | 63.0 | 325 | 4 | US-10-128-687A-516 | Sequence 516, App |
| 942 | 34 | 63.0 | 325 | 4 | US-10-128-688A-516 | Sequence 516, App |
| 943 | 34 | 63.0 | 325 | 4 | US-10-128-689A-516 | Sequence 516, App |
| 944 | 34 | 63.0 | 325 | 4 | US-10-128-694A-516 | Sequence 516, App |
| 945 | 34 | 63.0 | 325 | 4 | US-10-131-825A-516 | Sequence 516, App |
| 946 | 34 | 63.0 | 325 | 4 | US-10-230-417-516 | Sequence 516, App |
| 947 | 34 | 63.0 | 325 | 4 | US-10-131-815A-516 | Sequence 516, App |
| 948 | 34 | 63.0 | 325 | 4 | US-10-131-817A-516 | Sequence 516, App |
| 949 | 34 | 63.0 | 325 | 4 | US-10-131-821A-516 | Sequence 516, App |
| 950 | 34 | 63.0 | 325 | 4 | US-10-131-822A-516 | Sequence 516, App |
| 951 | 34 | 63.0 | 325 | 4 | US-10-131-828A-516 | Sequence 516, App |
| 952 | 34 | 63.0 | 325 | 4 | US-10-131-835A-516 | Sequence 516, App |
| 953 | 34 | 63.0 | 325 | 4 | US-10-137-864A-516 | Sequence 516, App |
| 954 | 34 | 63.0 | 325 | 4 | US-10-137-869A-516 | Sequence 516, App |
| 955 | 34 | 63.0 | 325 | 4 | US-10-147-523-516 | Sequence 516, App |
| 956 | 34 | 63.0 | 325 | 4 | US-10-158-785-516 | Sequence 516, App |
| 957 | 34 | 63.0 | 325 | 4 | US-10-121-051-516 | Sequence 516, App |
| 958 | 34 | 63.0 | 325 | 4 | US-10-121-042-516 | Sequence 516, App |
| 959 | 34 | 63.0 | 325 | 4 | US-10-123-912-516 | Sequence 516, App |
| 960 | 34 | 63.0 | 325 | 4 | US-10-223-085-230 | Sequence 230, App |
| 961 | 34 | 63.0 | 325 | 4 | US-10-192-007-516 | Sequence 516, App |
| 962 | 34 | 63.0 | 325 | 4 | US-10-194-359-516 | Sequence 516, App |
| 963 | 34 | 63.0 | 325 | 4 | US-10-223-084-230 | Sequence 230, App |
| 964 | 34 | 63.0 | 325 | 4 | US-10-223-088-230 | Sequence 230, App |
| 965 | 34 | 63.0 | 325 | 4 | US-10-223-090-230 | Sequence 230, App |
| 966 | 34 | 63.0 | 325 | 4 | US-10-223-087-230 | Sequence 230, App |
| 967 | 34 | 63.0 | 325 | 4 | US-10-127-847A-516 | Sequence 516, App |
| 968 | 34 | 63.0 | 325 | 4 | US-10-223-083-230 | Sequence 230, App |
| 969 | 34 | 63.0 | 325 | 4 | US-10-223-089-230 | Sequence 230, App |
| 970 | 34 | 63.0 | 325 | 4 | US-10-137-866-516 | Sequence 516, App |
| 971 | 34 | 63.0 | 325 | 4 | US-10-146-726-516 | Sequence 516, App |
| 972 | 34 | 63.0 | 325 | 4 | US-10-146-727-516 | Sequence 516, App |
| 973 | 34 | 63.0 | 325 | 4 | US-10-146-788-516 | Sequence 516, App |
| 974 | 34 | 63.0 | 325 | 4 | US-10-152-380-516 | Sequence 516, App |
| 975 | 34 | 63.0 | 325 | 4 | US-10-153-934-516 | Sequence 516, App |
| 976 | 34 | 63.0 | 325 | 4 | US-10-140-807-516 | Sequence 516, App |

| | | | | | | |
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| 977 | 34 | 63.0 | 325 | 4 | US-10-140-924-516 | Sequence 516, App |
| 978 | 34 | 63.0 | 325 | 4 | US-10-140-926-516 | Sequence 516, App |
| 979 | 34 | 63.0 | 325 | 4 | US-10-141-698-516 | Sequence 516, App |
| 980 | 34 | 63.0 | 325 | 4 | US-10-141-702-516 | Sequence 516, App |
| 981 | 34 | 63.0 | 325 | 4 | US-10-141-704-516 | Sequence 516, App |
| 982 | 34 | 63.0 | 325 | 4 | US-10-142-421-516 | Sequence 516, App |
| 983 | 34 | 63.0 | 325 | 4 | US-10-142-432-516 | Sequence 516, App |
| 984 | 34 | 63.0 | 325 | 4 | US-10-142-767-516 | Sequence 516, App |
| 985 | 34 | 63.0 | 325 | 4 | US-10-143-033-516 | Sequence 516, App |
| 986 | 34 | 63.0 | 325 | 4 | US-10-144-994-516 | Sequence 516, App |
| 987 | 34 | 63.0 | 325 | 4 | US-10-145-628-516 | Sequence 516, App |
| 988 | 34 | 63.0 | 325 | 4 | US-10-145-746-516 | Sequence 516, App |
| 989 | 34 | 63.0 | 325 | 4 | US-10-145-748-516 | Sequence 516, App |
| 990 | 34 | 63.0 | 325 | 4 | US-10-145-823-516 | Sequence 516, App |
| 991 | 34 | 63.0 | 325 | 4 | US-10-145-826-516 | Sequence 516, App |
| 992 | 34 | 63.0 | 325 | 4 | US-10-145-870-516 | Sequence 516, App |
| 993 | 34 | 63.0 | 325 | 4 | US-10-145-876-516 | Sequence 516, App |
| 994 | 34 | 63.0 | 325 | 4 | US-10-145-959-516 | Sequence 516, App |
| 995 | 34 | 63.0 | 325 | 4 | US-10-146-724-516 | Sequence 516, App |
| 996 | 34 | 63.0 | 325 | 4 | US-10-146-725-516 | Sequence 516, App |
| 997 | 34 | 63.0 | 325 | 4 | US-10-146-795-516 | Sequence 516, App |
| 998 | 34 | 63.0 | 325 | 4 | US-10-147-495-516 | Sequence 516, App |
| 999 | 34 | 63.0 | 325 | 4 | US-10-147-501-516 | Sequence 516, App |
| 1000 | 34 | 63.0 | 325 | 4 | US-10-147-504-516 | Sequence 516, App |

ALIGNMENTS

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RESULT 1
US-10-648-547-71
; Sequence 71, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/9
;  CURRENT APPLICATION NUMBER: US/10/648,547
;  CURRENT FILING DATE:  2003-08-25
;  PRIOR APPLICATION NUMBER: 10/306,541
;  PRIOR FILING DATE: 11-25-2002
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 11-23-2001
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 71
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-648-547-71

  Query Match             100.0%;  Score 54;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db          7 VCPICSQKP 15


RESULT 2
US-10-476-570-52
; Sequence 52, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 52
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E7 84-98
US-10-476-570-52

  Query Match             100.0%;  Score 54;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db          7 VCPICSQKP 15


RESULT 3
US-10-306-541-71
; Sequence 71, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/4
;  CURRENT APPLICATION NUMBER: US/10/306,541
;  CURRENT FILING DATE:  2003-11-25
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 2001-11-23
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 71
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-306-541-71

  Query Match             100.0%;  Score 54;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db          7 VCPICSQKP 15


RESULT 4
US-10-751-845-69
; Sequence 69, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
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;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 69
;   LENGTH: 17
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-69

  Query Match             100.0%;  Score 54;  DB 5;  Length 17;
  Best Local Similarity   100.0%;  Pred. No. 0.11;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db          9 VCPICSQKP 17


RESULT 5
US-10-432-465-51
; Sequence 51, Application US/10432465
; Publication No. US20040091479A1
; GENERAL INFORMATION:
;  APPLICANT: Nieland, John
;  APPLICANT:  Kaufmann, Andreas
;  APPLICANT:  Kather, Angela
;  APPLICANT:  Schinz, Manuela
;  TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1
;  TITLE OF INVENTION:  Protein and E7 Protein and Their Use in Diagnosis and
;  TITLE OF INVENTION:  Therapy
;  FILE REFERENCE: 50125/077001
;  CURRENT APPLICATION NUMBER: US/10/432,465
;  CURRENT FILING DATE:  2003-12-10
;  PRIOR APPLICATION NUMBER: PCT/EP01/14037
;  PRIOR FILING DATE: 2001-11-30
;  PRIOR APPLICATION NUMBER: DE 10059631.2
;  PRIOR FILING DATE: 2000-12-01
;  NUMBER OF SEQ ID NOS: 116
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 51
;   LENGTH: 21
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-432-465-51

  Query Match             100.0%;  Score 54;  DB 4;  Length 21;
  Best Local Similarity   100.0%;  Pred. No. 0.14;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         13 VCPICSQKP 21


RESULT 6
US-10-476-570-18
; Sequence 18, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
;   LENGTH: 21
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E7 78-98
US-10-476-570-18

  Query Match             100.0%;  Score 54;  DB 4;  Length 21;
  Best Local Similarity   100.0%;  Pred. No. 0.14;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         13 VCPICSQKP 21


RESULT 7
US-10-890-526-76
; Sequence 76, Application US/10890526
; Publication No. US20040258708A1
; GENERAL INFORMATION:
;  APPLICANT: Jochmus, Ingrid
;  APPLICANT:  Nieland, John
;  TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
;  TITLE OF INVENTION:  Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
;  TITLE OF INVENTION:  Therapy
;  FILE REFERENCE: 50125/036001
;  CURRENT APPLICATION NUMBER: US/10/890,526
;  CURRENT FILING DATE:  2004-07-13
;  PRIOR APPLICATION NUMBER: US/09/980,177
;  PRIOR FILING DATE: 2002-05-02
;  PRIOR APPLICATION NUMBER: PCT/EP00/05006
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: DE 19925199.1
;  PRIOR FILING DATE: 1999-06-01
;  NUMBER OF SEQ ID NOS: 77
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 76
;   LENGTH: 21
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-890-526-76

  Query Match             100.0%;  Score 54;  DB 5;  Length 21;
  Best Local Similarity   100.0%;  Pred. No. 0.14;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         13 VCPICSQKP 21


RESULT 8
US-09-728-466-1
; Sequence 1, Application US/09728466
; Patent No. US20010029022A1
; GENERAL INFORMATION:
;  APPLICANT:  Fisher, Christopher
;  APPLICANT:  He, Wanxia
;  TITLE OF INVENTION:  Methods to Identify Anti-Viral Agents
;  FILE REFERENCE:  28341/6216
;  CURRENT APPLICATION NUMBER: US/09/728,466
;  CURRENT FILING DATE:  2000-12-01
;  PRIOR APPLICATION NUMBER:  09/382,616
;  PRIOR FILING DATE:  1999-08-25
;  NUMBER OF SEQ ID NOS:  43
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 1
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;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Papillomavirus sylvilagi
US-09-728-466-1

  Query Match             100.0%;  Score 54;  DB 3;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.55;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 9
US-09-820-765-4
; Sequence 4, Application US/09820765
; Publication No. US20020039584A1
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                            FORMULATIONS AND METHODS OF USE
;        NUMBER OF SEQUENCES: 28
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: FOLEY & LARDNER
;             STREET: 3000 K Street, N.W.
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: U.S.A.
;             ZIP: 20007-5109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/820,765
;             FILING DATE: 30-Mar-2001
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US 09/026,896
;             FILING DATE: 20-FEB-1998
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Sandercock, Colin G.
;             REGISTRATION NUMBER: 31,298
;             REFERENCE/DOCKET NUMBER: 37067/102
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 672-5300
;             TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 98 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-765-4

  Query Match             100.0%;  Score 54;  DB 3;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.55;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 10
US-09-824-017-4
; Sequence 4, Application US/09824017
; Publication No. US20020197668A1
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                            FORMULATIONS AND METHODS OF USE
;        NUMBER OF SEQUENCES: 28
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: FOLEY & LARDNER
;             STREET: 3000 K Street, N.W.
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: U.S.A.
;             ZIP: 20007-5109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/824,017
;             FILING DATE: 03-Apr-2001
;             CLASSIFICATION: 424
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 09/026,896
;             FILING DATE: 1998-02-20
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Sandercock, Colin G.
;             REGISTRATION NUMBER: 31,298
;             REFERENCE/DOCKET NUMBER: 37067/102
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 672-5300
;             TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 98 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-824-017-4

  Query Match             100.0%;  Score 54;  DB 3;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.55;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 11
US-09-986-118A-4
; Sequence 4, Application US/09986118A
; Publication No. US20030021806A1
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                            FORMULATIONS AND METHODS OF USE
;        NUMBER OF SEQUENCES: 28
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: FOLEY & LARDNER
;             STREET: 3000 K Street, N.W.
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: U.S.A.
;             ZIP: 20007-5109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/986,118A
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;             FILING DATE: 07-No. US20030021806A1-2001
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US 09/026,896
;             FILING DATE: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Sandercock, Colin G.
;             REGISTRATION NUMBER: 31,298
;             REFERENCE/DOCKET NUMBER: 37067/102
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 672-5300
;             TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 98 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

  Query Match             100.0%;  Score 54;  DB 3;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.55;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 12
US-10-267-311-8
; Sequence 8, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-8

  Query Match             100.0%;  Score 54;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.55;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 13
US-10-177-390-8
; Sequence 8, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
;  APPLICANT: Schuler, Gerold
;  APPLICANT:  N.V. Antwerps Innovatiecentrum
;  TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
;  TITLE OF INVENTION:  Polynucleotides by Electroporation
;  FILE REFERENCE: 021505wo/JH/ml
;  CURRENT APPLICATION NUMBER: US/10/177,390
;  CURRENT FILING DATE:  2002-06-20
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: fragment of
;   OTHER INFORMATION: human papilloma virus type 16 E7 gene
US-10-177-390-8

  Query Match             100.0%;  Score 54;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.55;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 14
US-10-201-764-19
; Sequence 19, Application US/10201764
; Publication No. US20030166140A1
; GENERAL INFORMATION:
;  APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
;  TITLE OF INVENTION:  IMMUNE RESPONSE
;  FILE REFERENCE: TBA
;  CURRENT APPLICATION NUMBER: US/10/201,764
;  CURRENT FILING DATE:  2002-07-22
;  PRIOR APPLICATION NUMBER: US/09/566,420
;  PRIOR FILING DATE: 2000-05-05
;  PRIOR APPLICATION NUMBER: 60/132,752
;  PRIOR FILING DATE: 1999-05-06
;  PRIOR APPLICATION NUMBER: 60/132,750
;  PRIOR FILING DATE: 1999-05-06
;  NUMBER OF SEQ ID NOS: 19
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type E7
US-10-201-764-19

  Query Match             100.0%;  Score 54;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.55;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 15
US-10-392-113-29
; Sequence 29, Application US/10392113
; Publication No. US20030224993A1
; GENERAL INFORMATION:
;  APPLICANT: Land, Hartmut
;  APPLICANT:  Deleu, Laurent
;  TITLE OF INVENTION: COMPOSITIONS THAT INHIBIT PROLIFERATION
;  TITLE OF INVENTION:  OF CANCER CELLS
;  FILE REFERENCE: 21108.0005U3
;  CURRENT APPLICATION NUMBER: US/10/392,113
;  CURRENT FILING DATE:  2003-03-17
;  PRIOR APPLICATION NUMBER: 60/365,078
;  PRIOR FILING DATE: 2002-03-15
;  PRIOR APPLICATION NUMBER: PCT/US01/32127
```

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;  PRIOR FILING DATE: 2001-10-15
;  PRIOR APPLICATION NUMBER: 60/239,705
;  PRIOR FILING DATE: 2000-10-12
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 29
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:/Note =
;   OTHER INFORMATION: Synthetic Construct
US-10-392-113-29

  Query Match             100.0%;  Score 54;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.55;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 16
US-10-654-129-4
; Sequence 4, Application US/10654129
; Publication No. US20040081661A1
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                            FORMULATIONS AND METHODS OF USE
;        NUMBER OF SEQUENCES: 28
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: FOLEY & LARDNER
;             STREET: 3000 K Street, N.W.
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: U.S.A.
;             ZIP: 20007-5109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/654,129
;             FILING DATE: 04-Sep-2003
;             CLASSIFICATION: 424
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US/09/824,017
;             FILING DATE: 03-Apr-2001
;             APPLICATION NUMBER: 09/026,896
;             FILING DATE: 1998-02-20
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Sandercock, Colin G.
;             REGISTRATION NUMBER: 31,298
;             REFERENCE/DOCKET NUMBER: 37067/102
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 672-5300
;             TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 98 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-654-129-4

  Query Match             100.0%;  Score 54;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.55;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 17
US-10-681-410-19
; Sequence 19, Application US/10681410
; Publication No. US20040096426A1
; GENERAL INFORMATION:
;  APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
;  TITLE OF INVENTION:  IMMUNE RESPONSE
;  FILE REFERENCE: TBA
;  CURRENT APPLICATION NUMBER: US/10/681,410
;  CURRENT FILING DATE:  2003-10-08
;  PRIOR APPLICATION NUMBER: US/10/201,764
;  PRIOR FILING DATE: 2002-07-22
;  PRIOR APPLICATION NUMBER: US/09/566,420
;  PRIOR FILING DATE: 2000-05-05
;  PRIOR APPLICATION NUMBER: 60/132,752
;  PRIOR FILING DATE: 1999-05-06
;  PRIOR APPLICATION NUMBER: 60/132,750
;  PRIOR FILING DATE: 1999-05-06
;  NUMBER OF SEQ ID NOS: 19
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type E7
US-10-681-410-19

  Query Match             100.0%;  Score 54;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.55;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 18
US-10-772-988-3
; Sequence 3, Application US/10772988
; Publication No. US20040139485A1
; GENERAL INFORMATION:
;  APPLICANT: Thorgeirsson, Snorri S.
;  APPLICANT:  Woitach, Joseph T.
;  APPLICANT:  Zhang, Minghuang
;  TITLE OF INVENTION: cDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS PROTEIN
;  TITLE OF INVENTION:  PRODUCT
;  FILE REFERENCE: 11613.29USW1
;  CURRENT APPLICATION NUMBER: US/10/772,988
;  CURRENT FILING DATE:  2004-02-05
;  PRIOR APPLICATION NUMBER: US/09/637,746
;  PRIOR FILING DATE: 2000-08-11
;  PRIOR APPLICATION NUMBER: PCT/US99/04142
;  PRIOR FILING DATE: 1999-02-25
;  PRIOR APPLICATION NUMBER: US 60/079,567
;  PRIOR FILING DATE: 1998-03-27
;  PRIOR APPLICATION NUMBER: US 60/075,922
;  PRIOR FILING DATE: 1998-02-25
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-772-988-3

  Query Match             100.0%;  Score 54;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.55;
```

```
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 19
US-10-479-541-5
; Sequence 5, Application US/10479541
; Publication No. US20040151723A1
; GENERAL INFORMATION:
;  APPLICANT: Kirin Beer Kabushiki Kaisha
;  TITLE OF INVENTION: Novel E7 antigen epitope from human papillomavirus and
;  TITLE OF INVENTION:  CD4+ T cells activated thereby
;  FILE REFERENCE: 137240PX
;  CURRENT APPLICATION NUMBER: US/10/479,541
;  CURRENT FILING DATE:  2003-12-04
;  PRIOR APPLICATION NUMBER: 173803/2001
;  PRIOR FILING DATE: 2001-06-08
;  NUMBER OF SEQ ID NOS: 5
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-479-541-5

  Query Match            100.0%;  Score 54;  DB 4;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.55;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 20
US-10-042-526A-4
; Sequence 4, Application US/10042526A
; Publication No. US20050031636A1
; GENERAL INFORMATION:
;  APPLICANT: GISSMANN, et al.
;  TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE FORMULATIONS AND METHODS OF USE
;  FILE REFERENCE: 27013/38150
;  CURRENT APPLICATION NUMBER: US/10/042,526A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: US 09/632,286
;  PRIOR FILING DATE: 2000-08-03
;  PRIOR APPLICATION NUMBER: US 08/944,368
;  PRIOR FILING DATE: 1997-10-06
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 4
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human Papilloma Virus
US-10-042-526A-4

  Query Match            100.0%;  Score 54;  DB 5;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.55;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 21
US-10-657-399-1
; Sequence 1, Application US/10657399
; Publication No. US20050032038A1
; GENERAL INFORMATION:
;  APPLICANT: Fisher, Christopher
;  APPLICANT:  He, Wanxia
;  TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
;  FILE REFERENCE: 28341/6216
;  CURRENT APPLICATION NUMBER: US/10/657,399
;  CURRENT FILING DATE:  2003-09-08
;  PRIOR APPLICATION NUMBER: US/09/728,466
;  PRIOR FILING DATE: 2000-12-01
;  PRIOR APPLICATION NUMBER: 09/382,616
;  PRIOR FILING DATE: 1999-08-25
;  NUMBER OF SEQ ID NOS: 43
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Papillomavirus sylvilagi
US-10-657-399-1

  Query Match            100.0%;  Score 54;  DB 5;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.55;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 22
US-10-858-384-12
; Sequence 12, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 12
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-10-858-384-12

  Query Match            100.0%;  Score 54;  DB 5;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.55;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 23
US-10-484-063-26
; Sequence 26, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
```

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;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 26
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-484-063-26

  Query Match             100.0%;  Score 54;  DB 5;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.55;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 24
US-10-343-448-5
; Sequence 5, Application US/10343448
; Publication No. US20050054820A1
; GENERAL INFORMATION:
;  APPLICANT: WU, Tzyy-Choou
;  APPLICANT:  HUNG, Chien-Fu
;  TITLE OF INVENTION: MOLECULAR VACCINE LINKING AN ENDOPLASMIC RETICULUM CHAPERONE
;  TITLE OF INVENTION:  POLYPEPTIDE TO AN ANTIGEN
;  FILE REFERENCE: 2240-186463
;  CURRENT APPLICATION NUMBER: US/10/343,448
;  CURRENT FILING DATE:  2003-01-31
;  PRIOR APPLICATION NUMBER: PCT/US01/24134
;  PRIOR FILING DATE: 2001-08-02
;  PRIOR APPLICATION NUMBER: US 60/222,902
;  PRIOR FILING DATE: 2000-08-03
;  NUMBER OF SEQ ID NOS: 7
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-343-448-5

  Query Match             100.0%;  Score 54;  DB 5;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.55;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 25
US-10-679-956-8
; Sequence 8, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/679,956
;  CURRENT FILING DATE:  2003-10-06
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-679-956-8

  Query Match             100.0%;  Score 54;  DB 5;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.55;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 26
US-10-367-057-17
; Sequence 17, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
;  APPLICANT: Cuthill, Scott;
;  APPLICANT:  Jackson, Amanda;
;  APPLICANT:  Lewin, David A.;
;  APPLICANT:  Ooi, Chean Eng
;  TITLE OF INVENTION: Complexes and Methods of Using Same
;  FILE REFERENCE: 21402-559
;  CURRENT APPLICATION NUMBER: US/10/367,057
;  CURRENT FILING DATE:  2003-02-14
;  PRIOR APPLICATION NUMBER: 60/256,911
;  PRIOR FILING DATE: 2002-02-14
;  NUMBER OF SEQ ID NOS: 198
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 17
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-367-057-17

  Query Match             100.0%;  Score 54;  DB 5;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.55;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 27
US-11-077-939-5
; Sequence 5, Application US/11077939
; Publication No. US20050196865A1
; GENERAL INFORMATION:
;  APPLICANT: Frazer, Ian Hector
;  TITLE OF INVENTION: Gene Expression System Based on Codon Translation Efficiency
;  FILE REFERENCE: 10338-11U1
;  CURRENT APPLICATION NUMBER: US/11/077,939
;  CURRENT FILING DATE:  2005-03-11
;  PRIOR APPLICATION NUMBER: PCT/AU2003/001200
;  PRIOR FILING DATE: 2003-09-12
;  PRIOR APPLICATION NUMBER: US 60/410410
;  PRIOR FILING DATE: 2002-09-13
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-11-077-939-5

  Query Match             100.0%;  Score 54;  DB 6;  Length 98;
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```
  Best Local Similarity   100.0%;  Pred. No. 0.55;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 28
US-10-472-724-4
; Sequence 4, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
;  APPLICANT: Cid-Arregui, Angel
;  APPLICANT:  Zur Hausen, Harald
;  TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
;  FILE REFERENCE: 4121-154
;  CURRENT APPLICATION NUMBER: US/10/472,724
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP02/03271
;  PRIOR FILING DATE: 2002-03-22
;  PRIOR APPLICATION NUMBER: EP 01107271.7
;  PRIOR FILING DATE: 2001-03-23
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
;   LENGTH: 111
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic Construct
US-10-472-724-4

  Query Match             100.0%;  Score 54;  DB 4;  Length 111;
  Best Local Similarity   100.0%;  Pred. No. 0.62;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         95 VCPICSQKP 103


RESULT 29
US-10-751-845-126
; Sequence 126, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 126
;   LENGTH: 117
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-126

  Query Match             100.0%;  Score 54;  DB 5;  Length 117;
  Best Local Similarity   100.0%;  Pred. No. 0.65;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        109 VCPICSQKP 117


RESULT 30
US-10-267-311-12
; Sequence 12, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
;   LENGTH: 121
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-12

  Query Match             100.0%;  Score 54;  DB 4;  Length 121;
  Best Local Similarity   100.0%;  Pred. No. 0.67;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        113 VCPICSQKP 121


RESULT 31
US-10-679-956-12
; Sequence 12, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/679,956
;  CURRENT FILING DATE:  2003-10-06
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
;   LENGTH: 121
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-679-956-12

  Query Match             100.0%;  Score 54;  DB 5;  Length 121;
  Best Local Similarity   100.0%;  Pred. No. 0.67;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
```

```
Db        113 VCPICSQKP 121


RESULT 32
US-11-072-288-2
; Sequence 2, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
;  APPLICANT: KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE: 017753-122
;  CURRENT APPLICATION NUMBER: US/11/072,288
;  CURRENT FILING DATE:  2005-03-07
;  PRIOR APPLICATION NUMBER: US/09/462,993
;  PRIOR FILING DATE: 2000-04-17
;  PRIOR APPLICATION NUMBER: PCT/FR98/01576
;  PRIOR FILING DATE: 1998-07-17
;  PRIOR APPLICATION NUMBER: FR 97/09152
;  PRIOR FILING DATE: 1997-07-18
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 2
;   LENGTH: 185
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Derivated from human papillomavirus, strain
;   OTHER INFORMATION: HPV-16, E7 fusion signals of the rabies
;   OTHER INFORMATION: glycoprotein, clone E7*TMR.
US-11-072-288-2

  Query Match             100.0%;  Score 54;  DB 6;  Length 185;
  Best Local Similarity   100.0%;  Pred. No. 0.98;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        109 VCPICSQKP 117


RESULT 33
US-10-267-311-35
; Sequence 35, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 35
;   LENGTH: 198
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-35

  Query Match             100.0%;  Score 54;  DB 4;  Length 198;
  Best Local Similarity   100.0%;  Pred. No. 1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        190 VCPICSQKP 198


RESULT 34
US-10-679-956-35
; Sequence 35, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/679,956
;  CURRENT FILING DATE:  2003-10-06
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 35
;   LENGTH: 198
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-679-956-35

  Query Match             100.0%;  Score 54;  DB 5;  Length 198;
  Best Local Similarity   100.0%;  Pred. No. 1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        190 VCPICSQKP 198


RESULT 35
US-10-000-903-1
; Sequence 1, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 1
;   LENGTH: 220
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-1

  Query Match             100.0%;  Score 54;  DB 4;  Length 220;
  Best Local Similarity   100.0%;  Pred. No. 1.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        203 VCPICSQKP 211
```

```
RESULT 36
US-10-000-903-8
; Sequence 8, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 8
;   LENGTH: 220
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-8

  Query Match             100.0%;  Score 54;  DB 4;  Length 220;
  Best Local Similarity   100.0%;  Pred. No. 1.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        203 VCPICSQKP 211


RESULT 37
US-10-899-771-1
; Sequence 1, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 1
;   LENGTH: 220
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E7 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-1

  Query Match             100.0%;  Score 54;  DB 5;  Length 220;
  Best Local Similarity   100.0%;  Pred. No. 1.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        203 VCPICSQKP 211


RESULT 38
US-10-899-771-8
; Sequence 8, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 8
;   LENGTH: 220
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and mutated E7 from Human papilloma
;   OTHER INFORMATION: virus type 16)
US-10-899-771-8

  Query Match             100.0%;  Score 54;  DB 5;  Length 220;
  Best Local Similarity   100.0%;  Pred. No. 1.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        203 VCPICSQKP 211


RESULT 39
US-10-751-845-157
; Sequence 157, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 157
;   LENGTH: 236
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157

  Query Match             100.0%;  Score 54;  DB 5;  Length 236;
  Best Local Similarity   100.0%;  Pred. No. 1.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy          1 VCPICSQKP 9
              |||||||||
Db        109 VCPICSQKP 117
```

RESULT 40
US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 158
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158

Query Match 100.0%; Score 54; DB 5; Length 237;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 VCPICSQKP 9
              |||||||||
Db        110 VCPICSQKP 118
```

RESULT 41
US-10-000-903-12
; Sequence 12, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-12

Query Match 100.0%; Score 54; DB 4; Length 239;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 VCPICSQKP 9
              |||||||||
Db        222 VCPICSQKP 230
```

RESULT 42
US-10-899-771-12
; Sequence 12, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and E7 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-12

Query Match 100.0%; Score 54; DB 5; Length 239;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 VCPICSQKP 9
              |||||||||
Db        222 VCPICSQKP 230
```

RESULT 43
US-10-751-845-160
; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 160
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160

Query Match 100.0%; Score 54; DB 5; Length 261;

Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VCPICSQKP 9
||||||||||
Db 134 VCPICSQKP 142

RESULT 44
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 54; DB 3; Length 266;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VCPICSQKP 9
||||||||||
Db 250 VCPICSQKP 258

RESULT 45
US-10-267-311-33
; Sequence 33, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 33
; LENGTH: 295
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-33

Query Match 100.0%; Score 54; DB 4; Length 295;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VCPICSQKP 9
||||||||||
Db 287 VCPICSQKP 295

RESULT 46
US-10-679-956-33
; Sequence 33, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/679,956
; CURRENT FILING DATE: 2003-10-06
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 33
; LENGTH: 295
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-679-956-33

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Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 47
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; Sequence 25, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 25
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; TYPE: PRT
; ORGANISM: Artificial Sequence
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; OTHER INFORMATION: fusion sequence
US-10-267-311-25

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Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 316 VCPICSQKP 324

RESULT 48

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US-10-679-956-25
; Sequence 25, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/679,956
;  CURRENT FILING DATE:  2003-10-06
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 25
;   LENGTH: 324
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-679-956-25

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Db        316 VCPICSQKP 324


RESULT 49
US-10-472-724-10
; Sequence 10, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
;  APPLICANT: Cid-Arregui, Angel
;  APPLICANT:  Zur Hausen, Harald
;  TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
;  FILE REFERENCE: 4121-154
;  CURRENT APPLICATION NUMBER: US/10/472,724
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP02/03271
;  PRIOR FILING DATE: 2002-03-22
;  PRIOR APPLICATION NUMBER: EP 01107271.7
;  PRIOR FILING DATE: 2001-03-23
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10
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;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic Construct
US-10-472-724-10

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              |||||||||
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RESULT 50
US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-6

  Query Match             100.0%;  Score 54;  DB 4;  Length 371;
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Db        354 VCPICSQKP 362


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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:40:52 ; Search time 8.4 Seconds
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Title: US-08-170-344-64
Perfect score: 54
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Post-processing: Minimum Match 0%
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Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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| 3 | 54 | 100.0 | 98 | 9 | US-10-530-253-14 | Sequence 14, Appl |
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| 6 | 54 | 100.0 | 248 | 9 | US-10-530-253-3 | Sequence 3, Appli |
| 7 | 54 | 100.0 | 248 | 9 | US-10-530-253-7 | Sequence 7, Appli |
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| 11 | 44 | 81.5 | 270 | 11 | US-11-264-096-1832 | Sequence 1832, Ap |
| 12 | 44 | 81.5 | 357 | 11 | US-11-241-347-10 | Sequence 10, Appl |
| 13 | 44 | 81.5 | 445 | 11 | US-11-264-096-1835 | Sequence 1835, Ap |
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| 15 | 42 | 77.8 | 248 | 9 | US-10-530-253-5 | Sequence 5, Appli |
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| 18 | 40 | 74.1 | 201 | 11 | US-11-096-568A-19705 | Sequence 19705, A |
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| 21 | 39 | 72.2 | 211 | 11 | US-11-096-568A-33515 | Sequence 33515, A |
| 22 | 38 | 70.4 | 211 | 11 | US-11-096-568A-30728 | Sequence 30728, A |
| 23 | 38 | 70.4 | 215 | 11 | US-11-096-568A-30727 | Sequence 30727, A |
| 24 | 38 | 70.4 | 217 | 11 | US-11-096-568A-2340 | Sequence 2340, Ap |
| 25 | 38 | 70.4 | 221 | 11 | US-11-096-568A-2339 | Sequence 2339, Ap |
| 26 | 38 | 70.4 | 221 | 11 | US-11-096-568A-2342 | Sequence 2342, Ap |
| 27 | 38 | 70.4 | 262 | 11 | US-11-072-512-2104 | Sequence 2104, Ap |
| 28 | 38 | 70.4 | 319 | 11 | US-11-087-099-1984 | Sequence 1984, Ap |
| 29 | 38 | 70.4 | 351 | 11 | US-11-188-298-8113 | Sequence 8113, Ap |
| 30 | 38 | 70.4 | 463 | 11 | US-11-069-642-107 | Sequence 107, App |
| 31 | 38 | 70.4 | 659 | 9 | US-10-661-966-14 | Sequence 14, Appl |
| 32 | 37 | 68.5 | 15 | 9 | US-10-530-061-1715 | Sequence 1715, Ap |
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| 40 | 37 | 68.5 | 381 | 7 | US-09-978-360A-712 | Sequence 712, App |
| 41 | 37 | 68.5 | 436 | 11 | US-11-096-568A-5675 | Sequence 5675, Ap |
| 42 | 37 | 68.5 | 516 | 9 | US-10-501-035-344 | Sequence 344, App |
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| 44 | 37 | 68.5 | 682 | 11 | US-11-098-686-10487 | Sequence 10487, A |
| 45 | 37 | 68.5 | 747 | 9 | US-10-821-234-1662 | Sequence 1662, Ap |
| 46 | 36 | 66.7 | 99 | 9 | US-10-530-253-30 | Sequence 30, Appl |
| 47 | 36 | 66.7 | 155 | 9 | US-10-821-234-1517 | Sequence 1517, Ap |
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| 50 | 36 | 66.7 | 204 | 11 | US-11-087-099-10169 | Sequence 10169, A |
| 51 | 36 | 66.7 | 215 | 11 | US-11-096-568A-2301 | Sequence 2301, Ap |
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| 67 | 35 | 64.8 | 267 | 11 | US-11-096-568A-10824 | Sequence 10824, A |
| 68 | 35 | 64.8 | 336 | 11 | US-11-087-099-9495 | Sequence 9495, Ap |
| 69 | 35 | 64.8 | 338 | 11 | US-11-087-099-9387 | Sequence 9387, Ap |
| 70 | 35 | 64.8 | 353 | 11 | US-11-096-568A-29500 | Sequence 29500, A |
| 71 | 35 | 64.8 | 354 | 11 | US-11-087-099-1112 | Sequence 1112, Ap |
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| 73 | 35 | 64.8 | 492 | 11 | US-11-072-512-2254 | Sequence 2254, Ap |
| 74 | 35 | 64.8 | 497 | 9 | US-10-501-035-337 | Sequence 337, App |
| 75 | 35 | 64.8 | 634 | 11 | US-11-124-367A-285 | Sequence 285, App |
| 76 | 35 | 64.8 | 657 | 11 | US-11-110-082-37 | Sequence 37, Appl |
| 77 | 35 | 64.8 | 664 | 11 | US-11-080-991-40 | Sequence 40, Appl |
| 78 | 35 | 64.8 | 798 | 11 | US-11-110-082-39 | Sequence 39, Appl |
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| 80 | 34.5 | 63.9 | 317 | 11 | US-11-000-463-428 | Sequence 428, App |
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| 82 | 34 | 63.0 | 98 | 9 | US-10-530-253-36 | Sequence 36, Appl |
| 83 | 34 | 63.0 | 148 | 11 | US-11-045-004-1316 | Sequence 1316, Ap |
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| 99 | 34 | 63.0 | 227 | 11 | US-11-124-367A-348 | Sequence 348, App |
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| 101 | 34 | 63.0 | 256 | 11 | US-11-188-298-6107 | Sequence 6107, Ap |
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| 103 | 34 | 63.0 | 267 | 11 | US-11-096-568A-32564 | Sequence 32564, A |
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| 105 | 34 | 63.0 | 267 | 11 | US-11-188-298-3320 | Sequence 3320, Ap |
| 106 | 34 | 63.0 | 267 | 11 | US-11-188-298-5960 | Sequence 5960, Ap |
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| 108 | 34 | 63.0 | 267 | 11 | US-11-188-298-12034 | Sequence 12034, A |
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| 110 | 34 | 63.0 | 269 | 11 | US-11-188-298-19531 | Sequence 19531, A |
| 111 | 34 | 63.0 | 281 | 11 | US-11-188-298-17151 | Sequence 17151, A |
| 112 | 34 | 63.0 | 288 | 11 | US-11-188-298-10535 | Sequence 10535, A |
| 113 | 34 | 63.0 | 292 | 11 | US-11-188-298-1448 | Sequence 1448, Ap |
| 114 | 34 | 63.0 | 293 | 11 | US-11-188-298-2668 | Sequence 2668, Ap |
| 115 | 34 | 63.0 | 293 | 11 | US-11-188-298-3130 | Sequence 3130, Ap |
| 116 | 34 | 63.0 | 293 | 11 | US-11-188-298-16090 | Sequence 16090, A |
| 117 | 34 | 63.0 | 296 | 11 | US-11-188-298-17297 | Sequence 17297, A |
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| 122 | 34 | 63.0 | 325 | 9 | US-10-973-115B-516 | Sequence 516, App |
| 123 | 34 | 63.0 | 325 | 9 | US-10-213-535-11 | Sequence 11, Appl |
| 124 | 34 | 63.0 | 325 | 9 | US-10-137-873A-516 | Sequence 516, App |
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| 127 | 34 | 63.0 | 333 | 11 | US-11-096-568A-6439 | Sequence 6439, Ap |
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| 129 | 34 | 63.0 | 354 | 11 | US-11-096-568A-17355 | Sequence 17355, A |
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| 131 | 34 | 63.0 | 354 | 11 | US-11-188-298-19338 | Sequence 19338, A |
| 132 | 34 | 63.0 | 377 | 11 | US-11-188-298-7208 | Sequence 7208, Ap |
| 133 | 34 | 63.0 | 382 | 11 | US-11-188-298-711 | Sequence 711, App |
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| 137 | 34 | 63.0 | 541 | 11 | US-11-166-412-55 | Sequence 55, Appl |
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| 141 | 34 | 63.0 | 682 | 11 | US-11-087-099-9869 | Sequence 9869, Ap |
| 142 | 34 | 63.0 | 682 | 11 | US-11-188-298-20143 | Sequence 20143, A |
| 143 | 34 | 63.0 | 692 | 11 | US-11-024-959-486 | Sequence 486, App |
| 144 | 34 | 63.0 | 1302 | 11 | US-11-004-057-6 | Sequence 6, Appli |
| 145 | 34 | 63.0 | 1302 | 11 | US-11-210-471-2 | Sequence 2, Appli |
| 146 | 34 | 63.0 | 1493 | 8 | US-10-511-814-18 | Sequence 18, Appl |
| 147 | 34 | 63.0 | 1493 | 11 | US-11-004-057-4 | Sequence 4, Appli |
| 148 | 34 | 63.0 | 1493 | 11 | US-11-004-057-21 | Sequence 21, Appl |
| 149 | 34 | 63.0 | 1493 | 11 | US-11-210-471-8 | Sequence 8, Appli |
| 150 | 34 | 63.0 | 1613 | 11 | US-11-108-528-84 | Sequence 84, Appl |
| 151 | 34 | 63.0 | 1613 | 11 | US-11-108-528-86 | Sequence 86, Appl |
| 152 | 34 | 63.0 | 2414 | 11 | US-11-154-293-8 | Sequence 8, Appli |
| 153 | 33 | 61.1 | 19 | 9 | US-10-503-575-323 | Sequence 323, App |
| 154 | 33 | 61.1 | 85 | 11 | US-11-087-099-475 | Sequence 475, App |
| 155 | 33 | 61.1 | 86 | 9 | US-10-475-075-246 | Sequence 246, App |
| 156 | 33 | 61.1 | 86 | 9 | US-10-475-075-516 | Sequence 516, App |
| 157 | 33 | 61.1 | 97 | 11 | US-11-096-568A-4955 | Sequence 4955, Ap |
| 158 | 33 | 61.1 | 100 | 11 | US-11-096-568A-3131 | Sequence 3131, Ap |
| 159 | 33 | 61.1 | 102 | 11 | US-11-096-568A-3130 | Sequence 3130, Ap |
| 160 | 33 | 61.1 | 102 | 11 | US-11-096-568A-3132 | Sequence 3132, Ap |
| 161 | 33 | 61.1 | 108 | 11 | US-11-072-512-2653 | Sequence 2653, Ap |
| 162 | 33 | 61.1 | 134 | 11 | US-11-096-568A-29074 | Sequence 29074, A |
| 163 | 33 | 61.1 | 140 | 11 | US-11-096-568A-14525 | Sequence 14525, A |
| 164 | 33 | 61.1 | 149 | 10 | US-11-252-080-6 | Sequence 6, Appli |
| 165 | 33 | 61.1 | 151 | 11 | US-11-096-568A-25630 | Sequence 25630, A |
| 166 | 33 | 61.1 | 174 | 9 | US-10-991-285-874 | Sequence 874, App |
| 167 | 33 | 61.1 | 175 | 11 | US-11-096-568A-29073 | Sequence 29073, A |
| 168 | 33 | 61.1 | 181 | 11 | US-11-072-512-2524 | Sequence 2524, Ap |
| 169 | 33 | 61.1 | 185 | 11 | US-11-096-568A-9612 | Sequence 9612, Ap |
| 170 | 33 | 61.1 | 225 | 11 | US-11-264-096-1141 | Sequence 1141, Ap |
| 171 | 33 | 61.1 | 234 | 11 | US-11-096-568A-4649 | Sequence 4649, Ap |
| 172 | 33 | 61.1 | 239 | 11 | US-11-096-568A-130 | Sequence 130, App |
| 173 | 33 | 61.1 | 239 | 11 | US-11-096-568A-131 | Sequence 131, App |
| 174 | 33 | 61.1 | 240 | 11 | US-11-096-568A-5043 | Sequence 5043, Ap |
| 175 | 33 | 61.1 | 248 | 11 | US-11-087-099-3176 | Sequence 3176, Ap |
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| 178 | 33 | 61.1 | 257 | 7 | US-09-995-493-160 | Sequence 160, App |
| 179 | 33 | 61.1 | 258 | 11 | US-11-096-568A-129 | Sequence 129, App |
| 180 | 33 | 61.1 | 260 | 11 | US-11-096-568A-29072 | Sequence 29072, A |
| 181 | 33 | 61.1 | 260 | 11 | US-11-188-298-5740 | Sequence 5740, Ap |
| 182 | 33 | 61.1 | 264 | 11 | US-11-096-568A-25628 | Sequence 25628, A |
| 183 | 33 | 61.1 | 265 | 11 | US-11-096-568A-9611 | Sequence 9611, Ap |
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| 185 | 33 | 61.1 | 274 | 11 | US-11-087-099-258 | Sequence 258, App |
| 186 | 33 | 61.1 | 283 | 11 | US-11-096-568A-27479 | Sequence 27479, A |
| 187 | 33 | 61.1 | 285 | 11 | US-11-188-298-17365 | Sequence 17365, A |
| 188 | 33 | 61.1 | 288 | 11 | US-11-096-568A-25131 | Sequence 25131, A |
| 189 | 33 | 61.1 | 289 | 11 | US-11-087-099-6104 | Sequence 6104, Ap |
| 190 | 33 | 61.1 | 292 | 11 | US-11-087-099-12088 | Sequence 12088, A |
| 191 | 33 | 61.1 | 304 | 11 | US-11-172-740-761 | Sequence 761, App |
| 192 | 33 | 61.1 | 309 | 11 | US-11-087-099-2169 | Sequence 2169, Ap |
| 193 | 33 | 61.1 | 309 | 11 | US-11-087-099-7821 | Sequence 7821, Ap |
| 194 | 33 | 61.1 | 310 | 11 | US-11-087-099-11476 | Sequence 11476, A |
| 195 | 33 | 61.1 | 313 | 11 | US-11-172-740-2134 | Sequence 2134, Ap |
| 196 | 33 | 61.1 | 320 | 11 | US-11-096-568A-9610 | Sequence 9610, Ap |
| 197 | 33 | 61.1 | 326 | 11 | US-11-087-099-11629 | Sequence 11629, A |
| 198 | 33 | 61.1 | 328 | 11 | US-11-087-099-276 | Sequence 276, App |
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| 212 | 33 | 61.1 | 425 | 11 | US-11-172-740-2132 | Sequence 2132, Ap |
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| 214 | 33 | 61.1 | 433 | 11 | US-11-172-740-438 | Sequence 438, App |
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| 216 | 33 | 61.1 | 459 | 11 | US-11-096-568A-4647 | Sequence 4647, Ap |
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| 219 | 33 | 61.1 | 629 | 11 | US-11-072-512-3226 | Sequence 3226, Ap |
| 220 | 33 | 61.1 | 645 | 11 | US-11-072-512-2588 | Sequence 2588, Ap |
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| 228 | 33 | 61.1 | 691 | 9 | US-10-137-873A-16 | Sequence 16, Appl |
| 229 | 33 | 61.1 | 691 | 9 | US-10-152-370-16 | Sequence 16, Appl |
| 230 | 33 | 61.1 | 691 | 11 | US-11-290-153-16 | Sequence 16, Appl |
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| 232 | 33 | 61.1 | 700 | 9 | US-10-501-035-371 | Sequence 371, App |
| 233 | 33 | 61.1 | 700 | 11 | US-11-186-284-141 | Sequence 141, App |
| 234 | 33 | 61.1 | 703 | 9 | US-10-821-234-963 | Sequence 963, App |
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| 236 | 33 | 61.1 | 773 | 11 | US-11-096-568A-27994 | Sequence 27994, A |
| 237 | 33 | 61.1 | 780 | 11 | US-11-096-568A-27993 | Sequence 27993, A |
| 238 | 33 | 61.1 | 843 | 11 | US-11-072-512-2043 | Sequence 2043, Ap |
| 239 | 33 | 61.1 | 1336 | 8 | US-10-511-937-2564 | Sequence 2564, Ap |
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| 241 | 33 | 61.1 | 2442 | 9 | US-10-469-469-252 | Sequence 252, App |
| 242 | 33 | 61.1 | 2442 | 11 | US-11-154-293-4 | Sequence 4, Appli |
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| 244 | 33 | 61.1 | 2801 | 11 | US-11-124-367A-433 | Sequence 433, App |
| 245 | 33 | 61.1 | 2896 | 11 | US-11-124-368A-306 | Sequence 306, App |
| 246 | 33 | 61.1 | 2896 | 11 | US-11-124-367A-434 | Sequence 434, App |
| 247 | 33 | 61.1 | 3256 | 11 | US-11-124-368A-304 | Sequence 304, App |
| 248 | 33 | 61.1 | 3256 | 11 | US-11-124-367A-432 | Sequence 432, App |
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| 251 | 32.5 | 60.2 | 353 | 9 | US-10-784-004-755 | Sequence 755, App |
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| 254 | 32.5 | 60.2 | 452 | 11 | US-11-072-512-2403 | Sequence 2403, Ap |
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| 256 | 32 | 59.3 | 12 | 11 | US-11-139-372-2 | Sequence 2, Appli |
| 257 | 32 | 59.3 | 14 | 11 | US-11-166-412-81 | Sequence 81, Appl |
| 258 | 32 | 59.3 | 16 | 9 | US-10-518-341-26 | Sequence 26, Appl |
| 259 | 32 | 59.3 | 32 | 11 | US-11-139-372-1 | Sequence 1, Appli |
| 260 | 32 | 59.3 | 63 | 11 | US-11-144-985-14 | Sequence 14, Appl |
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| 262 | 32 | 59.3 | 93 | 11 | US-11-096-568A-4812 | Sequence 4812, Ap |
| 263 | 32 | 59.3 | 100 | 8 | US-10-509-131-16 | Sequence 16, Appl |
| 264 | 32 | 59.3 | 101 | 11 | US-11-087-099-2600 | Sequence 2600, Ap |
| 265 | 32 | 59.3 | 107 | 9 | US-10-530-253-37 | Sequence 37, Appl |
| 266 | 32 | 59.3 | 113 | 9 | US-10-821-234-1406 | Sequence 1406, Ap |
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| 269 | 32 | 59.3 | 122 | 11 | US-11-264-096-1888 | Sequence 1888, Ap |
| 270 | 32 | 59.3 | 127 | 11 | US-11-096-568A-5276 | Sequence 5276, Ap |
| 271 | 32 | 59.3 | 130 | 11 | US-11-096-568A-203 | Sequence 203, App |
| 272 | 32 | 59.3 | 130 | 11 | US-11-096-568A-32836 | Sequence 32836, A |
| 273 | 32 | 59.3 | 136 | 11 | US-11-096-568A-202 | Sequence 202, App |
| 274 | 32 | 59.3 | 136 | 11 | US-11-096-568A-32835 | Sequence 32835, A |
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| 278 | 32 | 59.3 | 165 | 11 | US-11-096-568A-204 | Sequence 204, App |
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| 310 | 32 | 59.3 | 250 | 9 | US-10-455-772-808 | Sequence 808, App |
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| 314 | 32 | 59.3 | 251 | 11 | US-11-188-298-1068 | Sequence 1068, Ap |
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| 342 | 32 | 59.3 | 300 | 11 | US-11-188-298-9183 | Sequence 9183, Ap |
| 343 | 32 | 59.3 | 300 | 11 | US-11-188-298-22472 | Sequence 22472, A |
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| 349 | 32 | 59.3 | 306 | 11 | US-11-087-099-9172 | Sequence 9172, Ap |
| 350 | 32 | 59.3 | 308 | 11 | US-11-087-099-6032 | Sequence 6032, Ap |
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| 359 | 32 | 59.3 | 361 | 11 | US-11-087-099-9078 | Sequence 9078, Ap |
| 360 | 32 | 59.3 | 362 | 11 | US-11-087-099-2214 | Sequence 2214, Ap |
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| 368 | 32 | 59.3 | 389 | 11 | US-11-096-568A-15113 | Sequence 15113, A |
| 369 | 32 | 59.3 | 391 | 11 | US-11-096-568A-3230 | Sequence 3230, Ap |
| 370 | 32 | 59.3 | 391 | 11 | US-11-096-568A-3232 | Sequence 3232, Ap |
| 371 | 32 | 59.3 | 403 | 11 | US-11-096-568A-2842 | Sequence 2842, Ap |
| 372 | 32 | 59.3 | 408 | 11 | US-11-096-568A-15112 | Sequence 15112, A |
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| 374 | 32 | 59.3 | 414 | 11 | US-11-096-568A-2841 | Sequence 2841, Ap |
| 375 | 32 | 59.3 | 442 | 11 | US-11-096-568A-19628 | Sequence 19628, A |
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| 379 | 32 | 59.3 | 491 | 11 | US-11-069-642-137 | Sequence 137, App |
| 380 | 32 | 59.3 | 533 | 11 | US-11-188-298-1282 | Sequence 1282, Ap |
| 381 | 32 | 59.3 | 665 | 11 | US-11-124-368A-289 | Sequence 289, App |
| 382 | 32 | 59.3 | 668 | 9 | US-10-506-454-850 | Sequence 850, App |
| 383 | 32 | 59.3 | 695 | 11 | US-11-079-463-9639 | Sequence 9639, Ap |
| 384 | 32 | 59.3 | 800 | 11 | US-11-217-137-11 | Sequence 11, Appl |
| 385 | 32 | 59.3 | 811 | 8 | US-10-511-937-2584 | Sequence 2584, Ap |
| 386 | 32 | 59.3 | 876 | 9 | US-10-506-454-690 | Sequence 690, App |

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| 387 | 32 | 59.3 | 899 | 11 | US-11-124-368A-290 | Sequence 290, App |
| 388 | 32 | 59.3 | 1007 | 9 | US-10-467-657-8514 | Sequence 8514, Ap |
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| 390 | 32 | 59.3 | 1212 | 11 | US-11-188-298-8749 | Sequence 8749, Ap |
| 391 | 32 | 59.3 | 1342 | 8 | US-10-497-088-14 | Sequence 14, Appl |
| 392 | 32 | 59.3 | 1439 | 11 | US-11-124-368A-291 | Sequence 291, App |
| 393 | 32 | 59.3 | 1544 | 9 | US-10-453-372-1186 | Sequence 1186, Ap |
| 394 | 32 | 59.3 | 1565 | 9 | US-10-453-372-1180 | Sequence 1180, Ap |
| 395 | 32 | 59.3 | 1566 | 9 | US-10-453-372-1190 | Sequence 1190, Ap |
| 396 | 32 | 59.3 | 1614 | 11 | US-11-108-528-82 | Sequence 82, Appl |
| 397 | 32 | 59.3 | 1615 | 11 | US-11-108-528-80 | Sequence 80, Appl |
| 398 | 32 | 59.3 | 1615 | 11 | US-11-124-367A-376 | Sequence 376, App |
| 399 | 32 | 59.3 | 1627 | 11 | US-11-124-367A-375 | Sequence 375, App |
| 400 | 32 | 59.3 | 2026 | 8 | US-10-505-928-831 | Sequence 831, App |
| 401 | 32 | 59.3 | 2053 | 9 | US-10-453-372-1174 | Sequence 1174, Ap |
| 402 | 32 | 59.3 | 2143 | 9 | US-10-453-372-1188 | Sequence 1188, Ap |
| 403 | 32 | 59.3 | 3256 | 8 | US-10-505-928-357 | Sequence 357, App |
| 404 | 32 | 59.3 | 3588 | 9 | US-10-995-561-672 | Sequence 672, App |
| 405 | 32 | 59.3 | 4346 | 9 | US-10-995-561-671 | Sequence 671, App |
| 406 | 32 | 59.3 | 4347 | 9 | US-10-995-561-670 | Sequence 670, App |
| 407 | 32 | 59.3 | 4390 | 11 | US-11-169-041-169 | Sequence 169, App |
| 408 | 32 | 59.3 | 4419 | 9 | US-10-821-234-1155 | Sequence 1155, Ap |
| 409 | 31.5 | 58.3 | 88 | 9 | US-10-467-657-3546 | Sequence 3546, Ap |
| 410 | 31.5 | 58.3 | 231 | 11 | US-11-050-857-254 | Sequence 254, App |
| 411 | 31.5 | 58.3 | 495 | 11 | US-11-050-857-1135 | Sequence 1135, Ap |
| 412 | 31.5 | 58.3 | 649 | 11 | US-11-050-857-990 | Sequence 990, App |
| 413 | 31.5 | 58.3 | 770 | 11 | US-11-050-857-252 | Sequence 252, App |
| 414 | 31.5 | 58.3 | 836 | 11 | US-11-050-857-988 | Sequence 988, App |
| 415 | 31.5 | 58.3 | 836 | 11 | US-11-050-857-989 | Sequence 989, App |
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| 417 | 31 | 57.4 | 22 | 11 | US-11-004-399-451 | Sequence 451, App |
| 418 | 31 | 57.4 | 22 | 11 | US-11-004-399-3884 | Sequence 3884, Ap |
| 419 | 31 | 57.4 | 28 | 11 | US-11-196-670-52 | Sequence 52, Appl |
| 420 | 31 | 57.4 | 38 | 11 | US-11-226-657-207 | Sequence 207, App |
| 421 | 31 | 57.4 | 57 | 11 | US-11-045-004-2393 | Sequence 2393, Ap |
| 422 | 31 | 57.4 | 62 | 9 | US-10-506-454-63 | Sequence 63, Appl |
| 423 | 31 | 57.4 | 71 | 11 | US-11-079-463-9113 | Sequence 9113, Ap |
| 424 | 31 | 57.4 | 84 | 7 | US-09-978-360A-409 | Sequence 409, App |
| 425 | 31 | 57.4 | 84 | 9 | US-10-475-075-271 | Sequence 271, App |
| 426 | 31 | 57.4 | 84 | 9 | US-10-475-075-272 | Sequence 272, App |
| 427 | 31 | 57.4 | 84 | 9 | US-10-475-075-273 | Sequence 273, App |
| 428 | 31 | 57.4 | 84 | 9 | US-10-475-075-274 | Sequence 274, App |
| 429 | 31 | 57.4 | 84 | 9 | US-10-475-075-275 | Sequence 275, App |
| 430 | 31 | 57.4 | 84 | 9 | US-10-475-075-533 | Sequence 533, App |
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| 432 | 31 | 57.4 | 91 | 11 | US-11-079-463-6443 | Sequence 6443, Ap |
| 433 | 31 | 57.4 | 92 | 11 | US-11-079-463-6658 | Sequence 6658, Ap |
| 434 | 31 | 57.4 | 98 | 9 | US-10-530-253-28 | Sequence 28, Appl |
| 435 | 31 | 57.4 | 106 | 9 | US-10-506-454-844 | Sequence 844, App |
| 436 | 31 | 57.4 | 118 | 11 | US-11-096-568A-14507 | Sequence 14507, A |
| 437 | 31 | 57.4 | 121 | 9 | US-10-821-234-1212 | Sequence 1212, Ap |
| 438 | 31 | 57.4 | 133 | 11 | US-11-188-298-1860 | Sequence 1860, Ap |
| 439 | 31 | 57.4 | 147 | 11 | US-11-188-298-10083 | Sequence 10083, A |
| 440 | 31 | 57.4 | 149 | 11 | US-11-226-657-205 | Sequence 205, App |
| 441 | 31 | 57.4 | 154 | 11 | US-11-096-568A-14506 | Sequence 14506, A |
| 442 | 31 | 57.4 | 157 | 11 | US-11-188-298-15155 | Sequence 15155, A |
| 443 | 31 | 57.4 | 162 | 11 | US-11-096-568A-14217 | Sequence 14217, A |
| 444 | 31 | 57.4 | 165 | 11 | US-11-096-568A-1182 | Sequence 1182, Ap |
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| 446 | 31 | 57.4 | 166 | 11 | US-11-226-657-204 | Sequence 204, App |
| 447 | 31 | 57.4 | 171 | 9 | US-10-506-454-254 | Sequence 254, App |
| 448 | 31 | 57.4 | 183 | 11 | US-11-096-568A-31109 | Sequence 31109, A |
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| 450 | 31 | 57.4 | 195 | 11 | US-11-096-568A-15289 | Sequence 15289, A |
| 451 | 31 | 57.4 | 195 | 11 | US-11-188-298-20945 | Sequence 20945, A |
| 452 | 31 | 57.4 | 202 | 11 | US-11-096-568A-16637 | Sequence 16637, A |
| 453 | 31 | 57.4 | 204 | 11 | US-11-096-568A-28948 | Sequence 28948, A |
| 454 | 31 | 57.4 | 204 | 11 | US-11-096-568A-32597 | Sequence 32597, A |
| 455 | 31 | 57.4 | 209 | 11 | US-11-096-568A-17126 | Sequence 17126, A |
| 456 | 31 | 57.4 | 211 | 9 | US-10-821-234-1372 | Sequence 1372, Ap |
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| 458 | 31 | 57.4 | 232 | 11 | US-11-096-568A-28947 | Sequence 28947, A |
| 459 | 31 | 57.4 | 232 | 11 | US-11-096-568A-32596 | Sequence 32596, A |
| 460 | 31 | 57.4 | 233 | 11 | US-11-096-568A-16636 | Sequence 16636, A |
| 461 | 31 | 57.4 | 250 | 11 | US-11-087-099-11446 | Sequence 11446, A |
| 462 | 31 | 57.4 | 256 | 11 | US-11-188-298-19274 | Sequence 19274, A |
| 463 | 31 | 57.4 | 257 | 11 | US-11-188-298-11791 | Sequence 11791, A |
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| 473 | 31 | 57.4 | 303 | 11 | US-11-096-568A-34306 | Sequence 34306, A |
| 474 | 31 | 57.4 | 304 | 11 | US-11-096-568A-26791 | Sequence 26791, A |
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| 477 | 31 | 57.4 | 325 | 11 | US-11-096-568A-34305 | Sequence 34305, A |
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| 479 | 31 | 57.4 | 339 | 11 | US-11-096-568A-34304 | Sequence 34304, A |
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| 484 | 31 | 57.4 | 343 | 11 | US-11-096-568A-26557 | Sequence 26557, A |
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| 495 | 31 | 57.4 | 381 | 11 | US-11-096-568A-7964 | Sequence 7964, Ap |
| 496 | 31 | 57.4 | 389 | 11 | US-11-096-568A-7963 | Sequence 7963, Ap |
| 497 | 31 | 57.4 | 399 | 11 | US-11-096-568A-17047 | Sequence 17047, A |
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| 501 | 31 | 57.4 | 411 | 11 | US-11-096-568A-27404 | Sequence 27404, A |
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| 504 | 31 | 57.4 | 456 | 11 | US-11-147-763-27 | Sequence 27, Appl |
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| 506 | 31 | 57.4 | 478 | 11 | US-11-079-463-6630 | Sequence 6630, Ap |
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| 513 | 31 | 57.4 | 520 | 11 | US-11-096-568A-9116 | Sequence 9116, Ap |
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| 520 | 31 | 57.4 | 658 | 11 | US-11-079-463-6947 | Sequence 6947, Ap |
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| 524 | 31 | 57.4 | 1001 | 11 | US-11-132-285-40 | Sequence 40, Appl |
| 525 | 31 | 57.4 | 1013 | 9 | US-10-131-826A-38 | Sequence 38, Appl |
| 526 | 31 | 57.4 | 1013 | 9 | US-10-973-115B-38 | Sequence 38, Appl |
| 527 | 31 | 57.4 | 1013 | 9 | US-10-137-873A-38 | Sequence 38, Appl |
| 528 | 31 | 57.4 | 1013 | 9 | US-10-152-370-38 | Sequence 38, Appl |
| 529 | 31 | 57.4 | 1013 | 11 | US-11-290-153-38 | Sequence 38, Appl |
| 530 | 31 | 57.4 | 1018 | 11 | US-11-067-121-17 | Sequence 17, Appl |
| 531 | 31 | 57.4 | 1036 | 9 | US-10-131-826A-142 | Sequence 142, App |
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| 536 | 31 | 57.4 | 1539 | 8 | US-10-511-937-2545 | Sequence 2545, Ap |
| 537 | 31 | 57.4 | 1574 | 9 | US-10-055-877-211 | Sequence 211, App |
| 538 | 31 | 57.4 | 1744 | 11 | US-11-182-016-22 | Sequence 22, Appl |
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| 541 | 30 | 55.6 | 13 | 11 | US-11-153-143A-390 | Sequence 390, App |
| 542 | 30 | 55.6 | 15 | 9 | US-10-530-061-1723 | Sequence 1723, Ap |
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| 544 | 30 | 55.6 | 41 | 11 | US-11-031-482-26 | Sequence 26, Appl |
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| 546 | 30 | 55.6 | 58 | 11 | US-11-264-096-74 | Sequence 74, Appl |
| 547 | 30 | 55.6 | 81 | 11 | US-11-109-831-46 | Sequence 46, Appl |
| 548 | 30 | 55.6 | 89 | 9 | US-10-506-454-379 | Sequence 379, App |
| 549 | 30 | 55.6 | 90 | 11 | US-11-045-208-43 | Sequence 43, Appl |
| 550 | 30 | 55.6 | 94 | 11 | US-11-188-298-9368 | Sequence 9368, Ap |
| 551 | 30 | 55.6 | 100 | 11 | US-11-087-099-630 | Sequence 630, App |
| 552 | 30 | 55.6 | 104 | 11 | US-11-096-568A-3383 | Sequence 3383, Ap |
| 553 | 30 | 55.6 | 108 | 11 | US-11-096-568A-733 | Sequence 733, App |
| 554 | 30 | 55.6 | 112 | 11 | US-11-079-463-6694 | Sequence 6694, Ap |
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| 560 | 30 | 55.6 | 129 | 9 | US-10-997-437A-6 | Sequence 6, Appli |
| 561 | 30 | 55.6 | 133 | 11 | US-11-096-568A-731 | Sequence 731, App |
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| 599 | 30 | 55.6 | 267 | 11 | US-11-188-298-3220 | Sequence 3220, Ap |
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| 601 | 30 | 55.6 | 281 | 11 | US-11-096-568A-55 | Sequence 55, Appl |
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| 608 | 30 | 55.6 | 331 | 8 | US-10-511-455-31 | Sequence 31, Appl |
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| 610 | 30 | 55.6 | 333 | 11 | US-11-087-099-2223 | Sequence 2223, Ap |
| 611 | 30 | 55.6 | 335 | 11 | US-11-087-099-559 | Sequence 559, App |
| 612 | 30 | 55.6 | 355 | 11 | US-11-135-855-44 | Sequence 44, Appl |
| 613 | 30 | 55.6 | 356 | 11 | US-11-079-463-7601 | Sequence 7601, Ap |
| 614 | 30 | 55.6 | 377 | 11 | US-11-124-368A-209 | Sequence 209, App |
| 615 | 30 | 55.6 | 377 | 11 | US-11-124-368A-210 | Sequence 210, App |
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| 621 | 30 | 55.6 | 431 | 11 | US-11-188-298-20784 | Sequence 20784, A |
| 622 | 30 | 55.6 | 441 | 11 | US-11-096-568A-26078 | Sequence 26078, A |
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| 625 | 30 | 55.6 | 448 | 9 | US-10-469-469-300 | Sequence 300, App |
| 626 | 30 | 55.6 | 448 | 9 | US-10-469-469-312 | Sequence 312, App |
| 627 | 30 | 55.6 | 448 | 11 | US-11-109-831-15 | Sequence 15, Appl |
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| 631 | 30 | 55.6 | 471 | 9 | US-10-469-469-294 | Sequence 294, App |
| 632 | 30 | 55.6 | 472 | 11 | US-11-188-298-8671 | Sequence 8671, Ap |
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| 636 | 30 | 55.6 | 483 | 11 | US-11-109-831-21 | Sequence 21, Appl |
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| 641 | 30 | 55.6 | 516 | 9 | US-10-623-155-344 | Sequence 344, App |
| 642 | 30 | 55.6 | 516 | 9 | US-10-469-469-296 | Sequence 296, App |
| 643 | 30 | 55.6 | 516 | 9 | US-10-469-469-308 | Sequence 308, App |
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| 651 | 30 | 55.6 | 549 | 11 | US-11-072-512-3152 | Sequence 3152, Ap |
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| 655 | 30 | 55.6 | 596 | 11 | US-11-072-512-2541 | Sequence 2541, Ap |
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| 658 | 30 | 55.6 | 641 | 9 | US-10-469-469-282 | Sequence 282, App |
| 659 | 30 | 55.6 | 641 | 9 | US-10-469-469-298 | Sequence 298, App |
| 660 | 30 | 55.6 | 641 | 9 | US-10-469-469-310 | Sequence 310, App |
| 661 | 30 | 55.6 | 641 | 11 | US-11-109-831-13 | Sequence 13, Appl |
| 662 | 30 | 55.6 | 663 | 11 | US-11-087-099-7915 | Sequence 7915, Ap |
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| 664 | 30 | 55.6 | 680 | 9 | US-10-623-155-342 | Sequence 342, App |
| 665 | 30 | 55.6 | 680 | 11 | US-11-109-831-19 | Sequence 19, Appl |
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| 667 | 30 | 55.6 | 712 | 11 | US-11-031-482-5 | Sequence 5, Appli |
| 668 | 30 | 55.6 | 719 | 11 | US-11-079-463-9076 | Sequence 9076, Ap |
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| 672 | 30 | 55.6 | 888 | 11 | US-11-031-482-2 | Sequence 2, Appli |
| 673 | 30 | 55.6 | 892 | 11 | US-11-031-737A-9 | Sequence 9, Appli |
| 674 | 30 | 55.6 | 892 | 11 | US-11-031-482-9 | Sequence 9, Appli |
| 675 | 30 | 55.6 | 920 | 11 | US-11-072-512-2574 | Sequence 2574, Ap |
| 676 | 30 | 55.6 | 1028 | 11 | US-11-067-121-7 | Sequence 7, Appli |
| 677 | 30 | 55.6 | 1102 | 11 | US-11-098-686-10951 | Sequence 10951, A |
| 678 | 30 | 55.6 | 1166 | 9 | US-10-821-234-964 | Sequence 964, App |

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| 679 | 30 | 55.6 | 1466 | 11 | US-11-186-284-33 | Sequence 33, Appl |
| 680 | 30 | 55.6 | 1552 | 9 | US-10-330-773-941 | Sequence 941, App |
| 681 | 30 | 55.6 | 1570 | 9 | US-10-330-773-936 | Sequence 936, App |
| 682 | 30 | 55.6 | 1579 | 9 | US-10-330-773-939 | Sequence 939, App |
| 683 | 30 | 55.6 | 2764 | 9 | US-10-995-561-691 | Sequence 691, App |
| 684 | 30 | 55.6 | 2813 | 9 | US-10-995-561-688 | Sequence 688, App |
| 685 | 30 | 55.6 | 2919 | 9 | US-10-821-234-1133 | Sequence 1133, Ap |
| 686 | 30 | 55.6 | 5179 | 11 | US-11-108-172-1068 | Sequence 1068, Ap |
| 687 | 29.5 | 54.6 | 226 | 11 | US-11-096-568A-10736 | Sequence 10736, A |
| 688 | 29.5 | 54.6 | 280 | 11 | US-11-096-568A-10735 | Sequence 10735, A |
| 689 | 29.5 | 54.6 | 348 | 11 | US-11-096-568A-10734 | Sequence 10734, A |
| 690 | 29.5 | 54.6 | 797 | 9 | US-10-469-469-48 | Sequence 48, Appl |
| 691 | 29.5 | 54.6 | 797 | 9 | US-10-469-469-208 | Sequence 208, App |
| 692 | 29.5 | 54.6 | 818 | 11 | US-11-096-568A-30985 | Sequence 30985, A |
| 693 | 29.5 | 54.6 | 820 | 11 | US-11-096-568A-30984 | Sequence 30984, A |
| 694 | 29.5 | 54.6 | 882 | 11 | US-11-169-041-137 | Sequence 137, App |
| 695 | 29.5 | 54.6 | 999 | 11 | US-11-096-568A-30983 | Sequence 30983, A |
| 696 | 29.5 | 54.6 | 1464 | 9 | US-10-501-035-331 | Sequence 331, App |
| 697 | 29.5 | 54.6 | 1464 | 11 | US-11-000-463-243 | Sequence 243, App |
| 698 | 29.5 | 54.6 | 1464 | 11 | US-11-186-284-28 | Sequence 28, Appl |
| 699 | 29.5 | 54.6 | 1464 | 11 | US-11-021-603-2 | Sequence 2, Appli |
| 700 | 29.5 | 54.6 | 1467 | 9 | US-10-821-234-1096 | Sequence 1096, Ap |
| 701 | 29 | 53.7 | 12 | 11 | US-11-004-399-2072 | Sequence 2072, Ap |
| 702 | 29 | 53.7 | 15 | 9 | US-10-530-061-1727 | Sequence 1727, Ap |
| 703 | 29 | 53.7 | 25 | 11 | US-11-145-861-97 | Sequence 97, Appl |
| 704 | 29 | 53.7 | 26 | 11 | US-11-147-916-5 | Sequence 5, Appli |
| 705 | 29 | 53.7 | 53 | 9 | US-10-467-657-5124 | Sequence 5124, Ap |
| 706 | 29 | 53.7 | 54 | 9 | US-10-506-454-677 | Sequence 677, App |
| 707 | 29 | 53.7 | 54 | 11 | US-11-245-400-21 | Sequence 21, Appl |
| 708 | 29 | 53.7 | 56 | 11 | US-11-202-057-9 | Sequence 9, Appli |
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| 710 | 29 | 53.7 | 68 | 11 | US-11-096-568A-13216 | Sequence 13216, A |
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| 712 | 29 | 53.7 | 76 | 9 | US-10-745-586-28 | Sequence 28, Appl |
| 713 | 29 | 53.7 | 81 | 11 | US-11-096-568A-3707 | Sequence 3707, Ap |
| 714 | 29 | 53.7 | 84 | 9 | US-10-467-657-2456 | Sequence 2456, Ap |
| 715 | 29 | 53.7 | 84 | 11 | US-11-087-099-1913 | Sequence 1913, Ap |
| 716 | 29 | 53.7 | 85 | 9 | US-10-467-657-4658 | Sequence 4658, Ap |
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| 718 | 29 | 53.7 | 94 | 9 | US-10-467-657-1508 | Sequence 1508, Ap |
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| 723 | 29 | 53.7 | 102 | 9 | US-10-467-657-4854 | Sequence 4854, Ap |
| 724 | 29 | 53.7 | 102 | 11 | US-11-096-568A-26929 | Sequence 26929, A |
| 725 | 29 | 53.7 | 103 | 9 | US-10-501-035-360 | Sequence 360, App |
| 726 | 29 | 53.7 | 104 | 9 | US-10-530-253-40 | Sequence 40, Appl |
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| 729 | 29 | 53.7 | 107 | 11 | US-11-188-298-20213 | Sequence 20213, A |
| 730 | 29 | 53.7 | 113 | 11 | US-11-152-601-16 | Sequence 16, Appl |
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| 737 | 29 | 53.7 | 124 | 11 | US-11-096-568A-13215 | Sequence 13215, A |
| 738 | 29 | 53.7 | 127 | 11 | US-11-096-568A-3706 | Sequence 3706, Ap |
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| 742 | 29 | 53.7 | 156 | 9 | US-10-714-887-276 | Sequence 276, App |
| 743 | 29 | 53.7 | 156 | 11 | US-11-096-568A-23578 | Sequence 23578, A |
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| 745 | 29 | 53.7 | 157 | 11 | US-11-072-512-2634 | Sequence 2634, Ap |
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| 747 | 29 | 53.7 | 160 | 11 | US-11-096-568A-170 | Sequence 170, App |
| 748 | 29 | 53.7 | 162 | 9 | US-10-714-887-260 | Sequence 260, App |
| 749 | 29 | 53.7 | 162 | 11 | US-11-134-811-10 | Sequence 10, Appl |
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| 752 | 29 | 53.7 | 164 | 11 | US-11-172-740-1338 | Sequence 1338, Ap |
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| 764 | 29 | 53.7 | 199 | 11 | US-11-096-568A-33045 | Sequence 33045, A |
| 765 | 29 | 53.7 | 202 | 9 | US-10-467-657-1304 | Sequence 1304, Ap |
| 766 | 29 | 53.7 | 202 | 9 | US-10-467-657-6670 | Sequence 6670, Ap |
| 767 | 29 | 53.7 | 203 | 11 | US-11-024-959-509 | Sequence 509, App |
| 768 | 29 | 53.7 | 205 | 11 | US-11-083-327-3 | Sequence 3, Appli |
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| 773 | 29 | 53.7 | 213 | 11 | US-11-079-463-7479 | Sequence 7479, Ap |
| 774 | 29 | 53.7 | 214 | 11 | US-11-096-568A-19787 | Sequence 19787, A |
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| 777 | 29 | 53.7 | 223 | 9 | US-10-921-286B-9 | Sequence 9, Appli |
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| 780 | 29 | 53.7 | 234 | 9 | US-10-508-263-100 | Sequence 100, App |
| 781 | 29 | 53.7 | 240 | 11 | US-11-096-568A-5817 | Sequence 5817, Ap |
| 782 | 29 | 53.7 | 241 | 11 | US-11-096-568A-6133 | Sequence 6133, Ap |
| 783 | 29 | 53.7 | 243 | 11 | US-11-240-406-3 | Sequence 3, Appli |
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| 787 | 29 | 53.7 | 247 | 11 | US-11-096-568A-6132 | Sequence 6132, Ap |
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| 794 | 29 | 53.7 | 261 | 11 | US-11-072-512-2517 | Sequence 2517, Ap |
| 795 | 29 | 53.7 | 261 | 11 | US-11-188-298-497 | Sequence 497, App |
| 796 | 29 | 53.7 | 261 | 11 | US-11-188-298-13909 | Sequence 13909, A |
| 797 | 29 | 53.7 | 263 | 11 | US-11-172-740-1533 | Sequence 1533, Ap |
| 798 | 29 | 53.7 | 264 | 11 | US-11-096-568A-13133 | Sequence 13133, A |
| 799 | 29 | 53.7 | 264 | 11 | US-11-172-740-1534 | Sequence 1534, Ap |
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| 801 | 29 | 53.7 | 267 | 9 | US-10-508-263-102 | Sequence 102, App |
| 802 | 29 | 53.7 | 267 | 11 | US-11-172-740-1536 | Sequence 1536, Ap |
| 803 | 29 | 53.7 | 267 | 11 | US-11-188-298-4536 | Sequence 4536, Ap |
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| 805 | 29 | 53.7 | 270 | 11 | US-11-172-740-1538 | Sequence 1538, Ap |
| 806 | 29 | 53.7 | 278 | 11 | US-11-072-512-2126 | Sequence 2126, Ap |
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| 823 | 29 | 53.7 | 310 | 11 | US-11-010-239-97 | Sequence 97, Appl |
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| 838 | 29 | 53.7 | 348 | 9 | US-10-661-426-14 | Sequence 14, Appl |
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| 870 | 29 | 53.7 | 374 | 11 | US-11-188-298-18689 | Sequence 18689, A |
| 871 | 29 | 53.7 | 381 | 11 | US-11-087-099-1940 | Sequence 1940, Ap |
| 872 | 29 | 53.7 | 384 | 11 | US-11-096-568A-13131 | Sequence 13131, A |
| 873 | 29 | 53.7 | 384 | 11 | US-11-096-568A-30036 | Sequence 30036, A |
| 874 | 29 | 53.7 | 385 | 11 | US-11-096-568A-15514 | Sequence 15514, A |
| 875 | 29 | 53.7 | 386 | 11 | US-11-096-568A-19467 | Sequence 19467, A |
| 876 | 29 | 53.7 | 389 | 11 | US-11-096-568A-28493 | Sequence 28493, A |
| 877 | 29 | 53.7 | 392 | 11 | US-11-096-568A-3997 | Sequence 3997, Ap |
| 878 | 29 | 53.7 | 394 | 11 | US-11-096-568A-3996 | Sequence 3996, Ap |
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| 882 | 29 | 53.7 | 399 | 11 | US-11-047-757-3 | Sequence 3, Appli |
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| 884 | 29 | 53.7 | 399 | 11 | US-11-048-490-3 | Sequence 3, Appli |
| 885 | 29 | 53.7 | 399 | 11 | US-11-074-374-8 | Sequence 8, Appli |
| 886 | 29 | 53.7 | 399 | 11 | US-11-096-568A-7756 | Sequence 7756, Ap |
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| 892 | 29 | 53.7 | 409 | 11 | US-11-096-568A-15513 | Sequence 15513, A |
| 893 | 29 | 53.7 | 410 | 11 | US-11-096-568A-3995 | Sequence 3995, Ap |
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| 896 | 29 | 53.7 | 422 | 11 | US-11-096-568A-30035 | Sequence 30035, A |
| 897 | 29 | 53.7 | 431 | 11 | US-11-096-568A-7755 | Sequence 7755, Ap |
| 898 | 29 | 53.7 | 431 | 11 | US-11-096-568A-28492 | Sequence 28492, A |
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| 902 | 29 | 53.7 | 434 | 9 | US-10-506-454-259 | Sequence 259, App |
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| 907 | 29 | 53.7 | 444 | 11 | US-11-096-568A-5831 | Sequence 5831, Ap |
| 908 | 29 | 53.7 | 445 | 11 | US-11-096-568A-32575 | Sequence 32575, A |
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| 912 | 29 | 53.7 | 469 | 9 | US-10-784-004-1112 | Sequence 1112, Ap |
| 913 | 29 | 53.7 | 471 | 11 | US-11-072-512-3482 | Sequence 3482, Ap |
| 914 | 29 | 53.7 | 474 | 11 | US-11-072-512-3289 | Sequence 3289, Ap |
| 915 | 29 | 53.7 | 477 | 11 | US-11-098-686-11252 | Sequence 11252, A |
| 916 | 29 | 53.7 | 479 | 9 | US-10-516-635-10 | Sequence 10, Appl |
| 917 | 29 | 53.7 | 480 | 9 | US-10-516-635-12 | Sequence 12, Appl |
| 918 | 29 | 53.7 | 480 | 9 | US-10-516-635-14 | Sequence 14, Appl |
| 919 | 29 | 53.7 | 480 | 9 | US-10-784-004-465 | Sequence 465, App |
| 920 | 29 | 53.7 | 480 | 9 | US-10-784-004-961 | Sequence 961, App |
| 921 | 29 | 53.7 | 480 | 11 | US-11-096-568A-7754 | Sequence 7754, Ap |
| 922 | 29 | 53.7 | 488 | 11 | US-11-169-041-197 | Sequence 197, App |
| 923 | 29 | 53.7 | 492 | 9 | US-10-506-454-132 | Sequence 132, App |
| 924 | 29 | 53.7 | 513 | 11 | US-11-188-298-11204 | Sequence 11204, A |
| 925 | 29 | 53.7 | 519 | 9 | US-10-330-773-519 | Sequence 519, App |
| 926 | 29 | 53.7 | 532 | 11 | US-11-188-298-493 | Sequence 493, App |
| 927 | 29 | 53.7 | 545 | 9 | US-10-453-372-222 | Sequence 222, App |
| 928 | 29 | 53.7 | 548 | 11 | US-11-096-568A-29370 | Sequence 29370, A |
| 929 | 29 | 53.7 | 552 | 11 | US-11-079-463-8728 | Sequence 8728, Ap |
| 930 | 29 | 53.7 | 553 | 11 | US-11-188-298-18392 | Sequence 18392, A |
| 931 | 29 | 53.7 | 562 | 11 | US-11-166-892-10 | Sequence 10, Appl |
| 932 | 29 | 53.7 | 562 | 11 | US-11-074-374-31 | Sequence 31, Appl |
| 933 | 29 | 53.7 | 574 | 9 | US-10-821-234-1624 | Sequence 1624, Ap |
| 934 | 29 | 53.7 | 574 | 11 | US-11-087-099-4328 | Sequence 4328, Ap |
| 935 | 29 | 53.7 | 582 | 11 | US-11-096-568A-12752 | Sequence 12752, A |
| 936 | 29 | 53.7 | 593 | 11 | US-11-169-041-239 | Sequence 239, App |
| 937 | 29 | 53.7 | 594 | 11 | US-11-012-762-4 | Sequence 4, Appli |
| 938 | 29 | 53.7 | 594 | 11 | US-11-177-894-8 | Sequence 8, Appli |
| 939 | 29 | 53.7 | 607 | 11 | US-11-188-298-3120 | Sequence 3120, Ap |
| 940 | 29 | 53.7 | 619 | 11 | US-11-072-512-2497 | Sequence 2497, Ap |
| 941 | 29 | 53.7 | 629 | 9 | US-10-821-234-1528 | Sequence 1528, Ap |
| 942 | 29 | 53.7 | 638 | 9 | US-10-506-454-536 | Sequence 536, App |
| 943 | 29 | 53.7 | 642 | 11 | US-11-177-894-9 | Sequence 9, Appli |
| 944 | 29 | 53.7 | 643 | 10 | US-11-251-673-5 | Sequence 5, Appli |
| 945 | 29 | 53.7 | 644 | 11 | US-11-063-343-21 | Sequence 21, Appl |
| 946 | 29 | 53.7 | 647 | 11 | US-11-188-298-21861 | Sequence 21861, A |
| 947 | 29 | 53.7 | 651 | 11 | US-11-188-298-295 | Sequence 295, App |
| 948 | 29 | 53.7 | 675 | 9 | US-10-915-002-289 | Sequence 289, App |
| 949 | 29 | 53.7 | 684 | 11 | US-11-096-568A-29369 | Sequence 29369, A |
| 950 | 29 | 53.7 | 685 | 9 | US-10-506-454-321 | Sequence 321, App |
| 951 | 29 | 53.7 | 712 | 11 | US-11-177-894-10 | Sequence 10, Appl |
| 952 | 29 | 53.7 | 753 | 9 | US-10-467-657-6852 | Sequence 6852, Ap |
| 953 | 29 | 53.7 | 759 | 11 | US-11-149-003-22 | Sequence 22, Appl |
| 954 | 29 | 53.7 | 774 | 11 | US-11-000-463-459 | Sequence 459, App |
| 955 | 29 | 53.7 | 795 | 11 | US-11-072-512-2378 | Sequence 2378, Ap |
| 956 | 29 | 53.7 | 819 | 11 | US-11-079-463-7787 | Sequence 7787, Ap |
| 957 | 29 | 53.7 | 823 | 9 | US-10-467-657-2526 | Sequence 2526, Ap |
| 958 | 29 | 53.7 | 840 | 11 | US-11-177-894-11 | Sequence 11, Appl |
| 959 | 29 | 53.7 | 858 | 9 | US-10-330-773-195 | Sequence 195, App |
| 960 | 29 | 53.7 | 914 | 9 | US-10-491-468-47 | Sequence 47, Appl |
| 961 | 29 | 53.7 | 944 | 9 | US-10-793-626-3324 | Sequence 3324, Ap |
| 962 | 29 | 53.7 | 951 | 11 | US-11-121-438-14 | Sequence 14, Appl |
| 963 | 29 | 53.7 | 960 | 11 | US-11-177-894-7 | Sequence 7, Appli |
| 964 | 29 | 53.7 | 969 | 9 | US-10-055-877-214 | Sequence 214, App |
| 965 | 29 | 53.7 | 1023 | 11 | US-11-045-004-894 | Sequence 894, App |
| 966 | 29 | 53.7 | 1057 | 11 | US-11-149-003-6 | Sequence 6, Appli |
| 967 | 29 | 53.7 | 1077 | 11 | US-11-072-512-2291 | Sequence 2291, Ap |
| 968 | 29 | 53.7 | 1147 | 9 | US-10-330-773-190 | Sequence 190, App |
| 969 | 29 | 53.7 | 1165 | 11 | US-11-188-298-17834 | Sequence 17834, A |
| 970 | 29 | 53.7 | 1190 | 11 | US-11-096-568A-28022 | Sequence 28022, A |

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| 971 | 29 | 53.7 | 1192 | 11 | US-11-149-003-18 | Sequence 18, Appl |
| 972 | 29 | 53.7 | 1202 | 9 | US-10-330-773-193 | Sequence 193, App |
| 973 | 29 | 53.7 | 1207 | 11 | US-11-149-003-20 | Sequence 20, Appl |
| 974 | 29 | 53.7 | 1240 | 9 | US-10-506-454-1648 | Sequence 1648, Ap |
| 975 | 29 | 53.7 | 1251 | 11 | US-11-149-003-16 | Sequence 16, Appl |
| 976 | 29 | 53.7 | 1342 | 11 | US-11-149-003-24 | Sequence 24, Appl |
| 977 | 29 | 53.7 | 1355 | 11 | US-11-096-568A-28021 | Sequence 28021, A |
| 978 | 29 | 53.7 | 1366 | 11 | US-11-096-568A-28020 | Sequence 28020, A |
| 979 | 29 | 53.7 | 1477 | 11 | US-11-149-003-8 | Sequence 8, Appli |
| 980 | 29 | 53.7 | 1487 | 11 | US-11-202-057-3 | Sequence 3, Appli |
| 981 | 29 | 53.7 | 1487 | 11 | US-11-202-057-5 | Sequence 5, Appli |
| 982 | 29 | 53.7 | 1487 | 11 | US-11-202-057-7 | Sequence 7, Appli |
| 983 | 29 | 53.7 | 1512 | 11 | US-11-149-003-10 | Sequence 10, Appl |
| 984 | 29 | 53.7 | 1535 | 11 | US-11-149-003-14 | Sequence 14, Appl |
| 985 | 29 | 53.7 | 1570 | 11 | US-11-149-003-12 | Sequence 12, Appl |
| 986 | 29 | 53.7 | 1593 | 11 | US-11-149-003-4 | Sequence 4, Appli |
| 987 | 29 | 53.7 | 1616 | 9 | US-10-821-234-1497 | Sequence 1497, Ap |
| 988 | 29 | 53.7 | 1628 | 11 | US-11-149-003-2 | Sequence 2, Appli |
| 989 | 29 | 53.7 | 1828 | 11 | US-11-126-022-23 | Sequence 23, Appl |
| 990 | 29 | 53.7 | 1852 | 11 | US-11-126-022-21 | Sequence 21, Appl |
| 991 | 29 | 53.7 | 1863 | 11 | US-11-126-022-2 | Sequence 2, Appli |
| 992 | 29 | 53.7 | 1863 | 11 | US-11-126-022-9 | Sequence 9, Appli |
| 993 | 29 | 53.7 | 1863 | 11 | US-11-126-022-10 | Sequence 10, Appl |
| 994 | 29 | 53.7 | 1863 | 11 | US-11-126-022-11 | Sequence 11, Appl |
| 995 | 29 | 53.7 | 1863 | 11 | US-11-126-022-12 | Sequence 12, Appl |
| 996 | 29 | 53.7 | 1863 | 11 | US-11-126-022-13 | Sequence 13, Appl |
| 997 | 29 | 53.7 | 1863 | 11 | US-11-126-022-14 | Sequence 14, Appl |
| 998 | 29 | 53.7 | 1863 | 11 | US-11-126-022-15 | Sequence 15, Appl |
| 999 | 29 | 53.7 | 1863 | 11 | US-11-126-022-16 | Sequence 16, Appl |
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ALIGNMENTS

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RESULT 1
US-10-511-814-8
; Sequence 8, Application US/10511814
; Publication No. US20060088472A1
; GENERAL INFORMATION:
;  APPLICANT: McCance, Dennis
;  APPLICANT:  Westbrook, III, Thomas F.
;  TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
;  FILE REFERENCE: 21108.0016U2
;  CURRENT APPLICATION NUMBER: US/10/511,814
;  CURRENT FILING DATE:  2004-10-19
;  PRIOR APPLICATION NUMBER: PCT/US03/12667
;  PRIOR FILING DATE: 2003-04-21
;  PRIOR APPLICATION NUMBER: 60/374,245
;  PRIOR FILING DATE: 2002-04-19
;  NUMBER OF SEQ ID NOS: 21
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:/Note =
;   OTHER INFORMATION: Synthetic Construct
US-10-511-814-8

  Query Match             100.0%;  Score 54;  DB 8;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.027;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 2
US-10-511-814-11
; Sequence 11, Application US/10511814
; Publication No. US20060088472A1
; GENERAL INFORMATION:
;  APPLICANT: McCance, Dennis
;  APPLICANT:  Westbrook, III, Thomas F.
;  TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
;  FILE REFERENCE: 21108.0016U2
;  CURRENT APPLICATION NUMBER: US/10/511,814
;  CURRENT FILING DATE:  2004-10-19
;  PRIOR APPLICATION NUMBER: PCT/US03/12667
;  PRIOR FILING DATE: 2003-04-21
;  PRIOR APPLICATION NUMBER: 60/374,245
;  PRIOR FILING DATE: 2002-04-19
;  NUMBER OF SEQ ID NOS: 21
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:/Note =
;   OTHER INFORMATION: Synthetic Construct
US-10-511-814-11

  Query Match             100.0%;  Score 54;  DB 8;  Length 98;
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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 3
US-10-530-253-14
; Sequence 14, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 14
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-14

  Query Match             100.0%;  Score 54;  DB 9;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.027;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 4
US-11-179-478-4
; Sequence 4, Application US/11179478
; Publication No. US20050249745A1
;  GENERAL INFORMATION:
;    APPLICANT:  BURGER, Alexander
;    APPLICANT:  HALLEK, Michael
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;    TITLE OF INVENTION:  PAPILLOMA VIRUS CAPSOMERE VACCINE
;    TITLE OF INVENTION:  FORMULATIONS AND METHODS OF USE
;    NUMBER OF SEQUENCES:  28
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  FOLEY & LARDNER
;      STREET:  3000 K Street, N.W.
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20007-5109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/11/179,478
;      FILING DATE:  13-JULY-2005
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/10/654,129
;      FILING DATE:  04-Sep-2003
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Sandercock, Colin G.
;      REGISTRATION NUMBER:  31,298
;      REFERENCE/DOCKET NUMBER:  37067/102
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 672-5300
;      TELEFAX:  (202) 672-5399
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  98 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-11-179-478-4

  Query Match             100.0%;  Score 54;  DB 11;  Length 98;
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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 5
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-1

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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||||||
Db        240 VCPICSQKP 248


RESULT 6
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-3

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Qy          1 VCPICSQKP 9
              |||||||||
Db        240 VCPICSQKP 248


RESULT 7
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
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; SEQ ID NO 7
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-7

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Qy          1 VCPICSQKP 9
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Db         90 VCPICSQKP 98


RESULT 8
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
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;   TYPE: PRT
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US-10-530-253-9

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Qy          1 VCPICSQKP 9
              |||||||||
Db         90 VCPICSQKP 98


RESULT 9
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
;  APPLICANT: PANG, XIAOWU
;  TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
;  TITLE OF INVENTION:  RECOMBINANT REPLICON
;  FILE REFERENCE: 116620-003
;  CURRENT APPLICATION NUMBER: US/11/192,923A
;  CURRENT FILING DATE:  2005-07-29
;  PRIOR APPLICATION NUMBER: CN 03115272.4
;  PRIOR FILING DATE: 2003-01-30
;  PRIOR APPLICATION NUMBER: CN 03115273.2
;  PRIOR FILING DATE: 2003-01-30
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 3.3
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;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-11-192-923A-2

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              |||||||||
Db         90 VCPICSQKP 98


RESULT 10
US-10-530-061-662
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; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 662
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;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-662

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Db          3 VCPICSQK 10


RESULT 11
US-11-264-096-1832
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; Publication No. US20060084794A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Albumin Fusion Proteins
;  FILE REFERENCE: PF546D1
;  CURRENT APPLICATION NUMBER: US/11/264,096
;  CURRENT FILING DATE:  2005-11-02
;  PRIOR APPLICATION NUMBER: 09/833,245
;  PRIOR FILING DATE: 2001-04-12
;  PRIOR APPLICATION NUMBER: 60/229, 358
;  PRIOR FILING DATE: 2000-04-12
;  PRIOR APPLICATION NUMBER: 60/256, 931
;  PRIOR FILING DATE: 2000-12-21
;  PRIOR APPLICATION NUMBER: 60/199, 384
;  PRIOR FILING DATE: 2000-04-25
;  NUMBER OF SEQ ID NOS: 2267
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;   NAME/KEY: SITE
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;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
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;   NAME/KEY: SITE
;   LOCATION: (118)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (157)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (268)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-11-264-096-1832
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Qy          2 CPICSQKP 9
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Db        179 CPICTEKP 186


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US-11-241-347-10
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; Publication No. US20060024665A1
; GENERAL INFORMATION:
;  APPLICANT: EXELIXIS, INC.
;  TITLE OF INVENTION: PRMTs AS MODIFIERS OF THE p53 PATHWAY AND METHODS OF USE
;  FILE REFERENCE: EX02-096
;  CURRENT APPLICATION NUMBER: US/11/241,347
;  CURRENT FILING DATE:  2005-09-30
;  PRIOR APPLICATION NUMBER: US 60/296,076
;  PRIOR FILING DATE: 2001-06-05
;  PRIOR APPLICATION NUMBER: US 60/328,605
;  PRIOR FILING DATE: 2001-10-10
;  PRIOR APPLICATION NUMBER: US 60/338,733
;  PRIOR FILING DATE: 2001-10-22
;  PRIOR APPLICATION NUMBER: US 60/357,253
;  PRIOR FILING DATE: 2002-02-15
;  PRIOR APPLICATION NUMBER: US 60/357,600
;  PRIOR FILING DATE: 2002-02-15
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 10
;   LENGTH: 357
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-241-347-10

  Query Match             81.5%;  Score 44;  DB 11;  Length 357;
  Best Local Similarity   75.0%;  Pred. No. 3.6;
  Matches    6;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CPICSQKP 9
              ||:|||:|
Db        318 CPLCSQQP 325


RESULT 13
US-11-264-096-1835
; Sequence 1835, Application US/11264096
; Publication No. US20060084794A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Albumin Fusion Proteins
;  FILE REFERENCE: PF546D1
;  CURRENT APPLICATION NUMBER: US/11/264,096
;  CURRENT FILING DATE:  2005-11-02
;  PRIOR APPLICATION NUMBER: 09/833,245
;  PRIOR FILING DATE: 2001-04-12
;  PRIOR APPLICATION NUMBER: 60/229, 358
;  PRIOR FILING DATE: 2000-04-12
;  PRIOR APPLICATION NUMBER: 60/256, 931
;  PRIOR FILING DATE: 2000-12-21
;  PRIOR APPLICATION NUMBER: 60/199, 384
;  PRIOR FILING DATE: 2000-04-25
;  NUMBER OF SEQ ID NOS: 2267
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1835
;   LENGTH: 445
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (147)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (288)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (293)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (332)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (443)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-11-264-096-1835

  Query Match             81.5%;  Score 44;  DB 11;  Length 445;
  Best Local Similarity   75.0%;  Pred. No. 4.3;
  Matches    6;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CPICSQKP 9
              ||||::||
Db        354 CPICTEKP 361


RESULT 14
US-11-186-284-35
; Sequence 35, Application US/11186284
; Publication No. US20050266493A1
; GENERAL INFORMATION:
;  APPLICANT: Millennium Pharmaceuticals, Inc.
;  APPLICANT:  Berger, Allison
;  APPLICANT:  Guillemette, Tracy L.
;  APPLICANT:  Kamatkar, Shubhangi
;  APPLICANT:  Schlegel, Robert
;  APPLICANT:  Monahan, John E.
;  APPLICANT:  Thibodeau, Stephen N.
;  APPLICANT:  Burgart, Lawrence J.
;  TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
;  TITLE OF INVENTION:  METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
;  TITLE OF INVENTION:  THERAPY OF COLON CANCER
;  FILE REFERENCE: MPM01-029P2RNM
;  CURRENT APPLICATION NUMBER: US/11/186,284
;  CURRENT FILING DATE:  2005-07-21
;  PRIOR APPLICATION NUMBER: US/10/301,822
;  PRIOR FILING DATE: 2002-11-21
;  PRIOR APPLICATION NUMBER: US 60/339,971
;  PRIOR FILING DATE: 2001-12-10
;  PRIOR APPLICATION NUMBER: US 60/361,978
;  PRIOR FILING DATE: 2002-03-05
;  PRIOR APPLICATION NUMBER: US 60/381,988
;  PRIOR FILING DATE: 2002-05-20
;  NUMBER OF SEQ ID NOS: 228
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 35
;   LENGTH: 1496
;   TYPE: PRT
;   ORGANISM: Homo Sapiens
US-11-186-284-35

  Query Match             79.6%;  Score 43;  DB 11;  Length 1496;
  Best Local Similarity   75.0%;  Pred. No. 17;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CPICSQKP 9
              ||:||| |
Db         93 CPVCSQTP 100


RESULT 15
```

```
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-5

  Query Match             77.8%;  Score 42;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 5.5;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              | |||||||
Db        240 VGPICSQKP 248


RESULT 16
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-11

  Query Match             77.8%;  Score 42;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 5.5;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              | |||||||
Db         90 VGPICSQKP 98


RESULT 17
US-11-096-568A-19706
; Sequence 19706, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 19706
;   LENGTH: 199
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(199)
;   OTHER INFORMATION: Ceres Seq. ID no. 12374180
US-11-096-568A-19706

  Query Match             74.1%;  Score 40;  DB 11;  Length 199;
  Best Local Similarity   85.7%;  Pred. No. 9.8;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CPICSQK 8
              ||||||:
Db         46 CPICSQR 52


RESULT 18
US-11-096-568A-19705
; Sequence 19705, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 19705
;   LENGTH: 201
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(201)
;   OTHER INFORMATION: Ceres Seq. ID no. 12374179
US-11-096-568A-19705

  Query Match             74.1%;  Score 40;  DB 11;  Length 201;
  Best Local Similarity   85.7%;  Pred. No. 9.9;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CPICSQK 8
              ||||||:
Db         48 CPICSQR 54


RESULT 19
US-11-096-568A-19704
; Sequence 19704, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 19704
;   LENGTH: 211
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
```

```
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(211)
;   OTHER INFORMATION: Ceres Seq. ID no. 12374178
US-11-096-568A-19704

  Query Match             74.1%;  Score 40;  DB 11;  Length 211;
  Best Local Similarity   85.7%;  Pred. No. 10;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CPICSQK 8
              ||||||:
Db         58 CPICSQR 64


RESULT 20
US-11-096-568A-33516
; Sequence 33516, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 33516
;   LENGTH: 168
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(168)
;   OTHER INFORMATION: Ceres Seq. ID no. 13603308
US-11-096-568A-33516

  Query Match             72.2%;  Score 39;  DB 11;  Length 168;
  Best Local Similarity   62.5%;  Pred. No. 12;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQK 8
              |||:|::|
Db         30 VCPVCTKK 37


RESULT 21
US-11-096-568A-33515
; Sequence 33515, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 33515
;   LENGTH: 211
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(211)
;   OTHER INFORMATION: Ceres Seq. ID no. 13603307
US-11-096-568A-33515

  Query Match             72.2%;  Score 39;  DB 11;  Length 211;
  Best Local Similarity   62.5%;  Pred. No. 15;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQK 8
              |||:|::|
Db         73 VCPVCTKK 80


RESULT 22
US-11-096-568A-30728
; Sequence 30728, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides I
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 30728
;   LENGTH: 211
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(211)
;   OTHER INFORMATION: Ceres Seq. ID no. 4971863
US-11-096-568A-30728

  Query Match             70.4%;  Score 38;  DB 11;  Length 211;
  Best Local Similarity   50.0%;  Pred. No. 22;
  Matches    4;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQK 8
              :||:||::
Db         73 ICPVCSKR 80


RESULT 23
US-11-096-568A-30727
; Sequence 30727, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 30727
;   LENGTH: 215
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(215)
;   OTHER INFORMATION: Ceres Seq. ID no. 4971862
US-11-096-568A-30727

  Query Match             70.4%;  Score 38;  DB 11;  Length 215;
  Best Local Similarity   50.0%;  Pred. No. 22;
  Matches    4;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQK 8
              :||:||::
Db         77 ICPVCSKR 84


RESULT 24
US-11-096-568A-2340
; Sequence 2340, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
```

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;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 2340
;   LENGTH: 217
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(217)
;   OTHER INFORMATION: Ceres Seq. ID no. 12605222
US-11-096-568A-2340

  Query Match             70.4%;  Score 38;  DB 11;  Length 217;
  Best Local Similarity   50.0%;  Pred. No. 22;
  Matches    4;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQK 8
              :||:||::
Db         73 ICPVCSKR 80


RESULT 25
US-11-096-568A-2339
; Sequence 2339, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 2339
;   LENGTH: 221
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(221)
;   OTHER INFORMATION: Ceres Seq. ID no. 12605221
US-11-096-568A-2339

  Query Match             70.4%;  Score 38;  DB 11;  Length 221;
  Best Local Similarity   50.0%;  Pred. No. 23;
  Matches    4;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQK 8
              :||:||::
Db         77 ICPVCSKR 84


RESULT 26
US-11-096-568A-2342
; Sequence 2342, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 2342
;   LENGTH: 221
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(221)
;   OTHER INFORMATION: Ceres Seq. ID no. 16612507
US-11-096-568A-2342

  Query Match             70.4%;  Score 38;  DB 11;  Length 221;
  Best Local Similarity   50.0%;  Pred. No. 23;
  Matches    4;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQK 8
              :||:||::
Db         77 ICPVCSKR 84


RESULT 27
US-11-072-512-2104
; Sequence 2104, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
;  APPLICANT: ISOGAI, TAKAO
;  APPLICANT:  SUGIYAMA, TOMOYASU
;  APPLICANT:  OTSUKI, TETSUJI
;  APPLICANT:  WAKAMATSU, AI
;  APPLICANT:  SATO, HIROYUKI
;  APPLICANT:  ISHII, SHIZUKO
;  APPLICANT:  YAMAMOTO, JUN-ICHI
;  APPLICANT:  ISONO, YUUKO
;  APPLICANT:  HIO, YURI
;  APPLICANT:  OTSUKA, KAORU
;  APPLICANT:  NAGAI, KEIICHI
;  APPLICANT:  IRIE, RYOTARO
;  APPLICANT:  TAMECHIKA, ICHIRO
;  APPLICANT:  SEKI, NAOHIKO
;  APPLICANT:  YOSHIKAWA, TSUTOMU
;  APPLICANT:  OTSUKA, MOTOYUKI
;  APPLICANT:  NAGAHARI, KENJI
;  APPLICANT:  MASUHO, YASUHIKO
;  TITLE OF INVENTION: Novel full length cDNA
;  FILE REFERENCE: 084335-0191
;  CURRENT APPLICATION NUMBER: US/11/072,512
;  CURRENT FILING DATE:  2005-03-07
;  PRIOR APPLICATION NUMBER: US 60/350,978
;  PRIOR FILING DATE: 2002-01-25
;  PRIOR APPLICATION NUMBER: JP 2001-379298
;  PRIOR FILING DATE: 2001-11-05
;  NUMBER OF SEQ ID NOS: 4096
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2104
;   LENGTH: 262
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-072-512-2104

  Query Match             70.4%;  Score 38;  DB 11;  Length 262;
  Best Local Similarity   71.4%;  Pred. No. 26;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CPICSQK 8
              ||:| ||
Db        159 CPVCKQK 165


RESULT 28
US-11-087-099-1984
; Sequence 1984, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 1984
;   LENGTH: 319
```

; TYPE: PRT
; ORGANISM: Triticum aestivum
US-11-087-099-1984

Query Match 70.4%; Score 38; DB 11; Length 319;
Best Local Similarity 62.5%; Pred. No. 31;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CPICSQKP 9
|||| ::|
Db 52 CPICLERP 59

RESULT 29
US-11-188-298-8113
; Sequence 8113, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 8113
; LENGTH: 351
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(351)
; OTHER INFORMATION: unsure at all Xaa locations
US-11-188-298-8113

Query Match 70.4%; Score 38; DB 11; Length 351;
Best Local Similarity 71.4%; Pred. No. 34;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CPICSQK 8
||:| ||
Db 340 CPVCKQK 346

RESULT 30
US-11-069-642-107
; Sequence 107, Application US/11069642
; Publication No. US20050260626A1
; GENERAL INFORMATION:
; APPLICANT: LORENS, JAMES B.
; APPLICANT: PRAY, TODD R.
; APPLICANT: KINSELLA, TODD M.
; APPLICANT: BENNETT, MARK K.
; TITLE OF INVENTION: IN VIVO PRODUCTION OF CYCLIC PEPTIDES FOR
; TITLE OF INVENTION: INHIBITING PROTEIN-PROTEIN INTERACTION
; FILE REFERENCE: RIGL-022CIP3
; CURRENT APPLICATION NUMBER: US/11/069,642
; CURRENT FILING DATE: 2005-02-28
; PRIOR APPLICATION NUMBER: 10/232,758
; PRIOR FILING DATE: 2002-08-30
; PRIOR APPLICATION NUMBER: 10/422,536
; PRIOR FILING DATE: 2003-04-23
; PRIOR APPLICATION NUMBER: 09/800,770
; PRIOR FILING DATE: 2001-03-06
; PRIOR APPLICATION NUMBER: 60/187,130
; PRIOR FILING DATE: 2000-03-06
; NUMBER OF SEQ ID NOS: 168
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 107
; LENGTH: 463
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-069-642-107

Query Match 70.4%; Score 38; DB 11; Length 463;
Best Local Similarity 75.0%; Pred. No. 42;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 CPICSQKP 9
|| ||| |
Db 364 CPACSQLP 371

RESULT 31
US-10-661-966-14
; Sequence 14, Application US/10661966
; Publication No. US20050277118A1
; GENERAL INFORMATION:
; APPLICANT: Roth, Richard B.
; APPLICANT: Nelson, Matthew Roberts
; APPLICANT: Braun, Andreas
; TITLE OF INVENTION: METHODS FOR IDENTIFYING SUBJECTS AT RISK
; TITLE OF INVENTION: OF MELANOMA AND TREATMENTS THEREOF
; FILE REFERENCE: 524592003800
; CURRENT APPLICATION NUMBER: US/10/661,966
; CURRENT FILING DATE: 2003-09-11
; PRIOR APPLICATION NUMBER: 60/410,595
; PRIOR FILING DATE: 2002-09-11
; PRIOR APPLICATION NUMBER: 60/422,344
; PRIOR FILING DATE: 2002-10-29
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 659
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-661-966-14

Query Match 70.4%; Score 38; DB 9; Length 659;
Best Local Similarity 71.4%; Pred. No. 57;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 CPICSQK 8
||:|||:
Db 126 CPVCSQE 132

RESULT 32
US-10-530-061-1715
; Sequence 1715, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1715
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1715

Query Match 68.5%; Score 37; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 3.4;

```
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICS 6
              ||||||
Db         10 VCPICS 15


RESULT 33
US-11-172-740-2471
; Sequence 2471, Application US/11172740
; Publication No. US20060057724A1
; GENERAL INFORMATION:
;  APPLICANT: MASCIA, Peter
;  APPLICANT:  ALEXANDROV, Nickolai
;  APPLICANT:  BROVER, Vyacheslav
;  TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND POLYPEPTIDES ENCODED THEREBY USEFUL FOR
;  TITLE OF INVENTION:  PLANT CHARACTERISTICS AND PHENOTYPES
;  FILE REFERENCE: 2750-1602PUS2
;  CURRENT APPLICATION NUMBER: US/11/172,740
;  CURRENT FILING DATE:  2005-06-30
;  PRIOR APPLICATION NUMBER: 60/583,621
;  PRIOR FILING DATE: 2004-06-30
;  PRIOR APPLICATION NUMBER: 60/584,829
;  PRIOR FILING DATE: 2004-06-30
;  PRIOR APPLICATION NUMBER: 60/584,800
;  PRIOR FILING DATE: 2004-06-30
;  NUMBER OF SEQ ID NOS: 2523
; SEQ ID NO 2471
;   LENGTH: 157
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(157)
;   OTHER INFORMATION: Public GI no. 22325449
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION:
;   OTHER INFORMATION: Utility: Useful for making smaller plants
US-11-172-740-2471

  Query Match             68.5%;  Score 37;  DB 11;  Length 157;
  Best Local Similarity   87.5%;  Pred. No. 25;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VCPICSQK 8
              || |||||
Db         19 VCLICSQK 26


RESULT 34
US-11-096-568A-17564
; Sequence 17564, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 17564
;   LENGTH: 167
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(167)
;   OTHER INFORMATION: Ceres Seq. ID no. 12358996
US-11-096-568A-17564

  Query Match             68.5%;  Score 37;  DB 11;  Length 167;
  Best Local Similarity   66.7%;  Pred. No. 26;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||   |
Db        122 VCPICLTNP 130


RESULT 35
US-11-096-568A-17562
; Sequence 17562, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 17562
;   LENGTH: 202
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(202)
;   OTHER INFORMATION: Ceres Seq. ID no. 12358994
US-11-096-568A-17562

  Query Match             68.5%;  Score 37;  DB 11;  Length 202;
  Best Local Similarity   66.7%;  Pred. No. 31;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              |||||   |
Db        157 VCPICLTNP 165


RESULT 36
US-11-096-568A-4394
; Sequence 4394, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 4394
;   LENGTH: 255
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(255)
;   OTHER INFORMATION: Ceres Seq. ID no. 13595862
US-11-096-568A-4394

  Query Match             68.5%;  Score 37;  DB 11;  Length 255;
  Best Local Similarity   55.6%;  Pred. No. 37;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              :|||| : |
Db         14 ICPICLEVP 22


RESULT 37
US-11-096-568A-5677
; Sequence 5677, Application US/11096568A
```

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; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 5677
;   LENGTH: 306
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(306)
;   OTHER INFORMATION: Ceres Seq. ID no. 14311304
US-11-096-568A-5677

  Query Match             68.5%;  Score 37;  DB 11;  Length 306;
  Best Local Similarity   55.6%;  Pred. No. 44;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              :||||  :|
Db        211 LCPICGTEP 219


RESULT 38
US-11-096-568A-5676
; Sequence 5676, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 5676
;   LENGTH: 351
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(351)
;   OTHER INFORMATION: Ceres Seq. ID no. 14311303
US-11-096-568A-5676

  Query Match             68.5%;  Score 37;  DB 11;  Length 351;
  Best Local Similarity   55.6%;  Pred. No. 49;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              :||||  :|
Db        256 LCPICGTEP 264


RESULT 39
US-11-087-099-11857
; Sequence 11857, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 11857
;   LENGTH: 357
;   TYPE: PRT
;   ORGANISM: Triticum aestivum
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(357)
;   OTHER INFORMATION: unsure at all Xaa locations
US-11-087-099-11857

  Query Match             68.5%;  Score 37;  DB 11;  Length 357;
  Best Local Similarity   50.0%;  Pred. No. 50;
  Matches    4;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQK 8
              |||:|:::
Db        219 VCPVCTER 226


RESULT 40
US-09-978-360A-712
; Sequence 712, Application US/09978360A
; Publication No. US20060009633A9
; GENERAL INFORMATION:
;  APPLICANT: Edwards, Jean-Baptiste Dumas Milne
;  APPLICANT:  Duclert, Aymeric
;  APPLICANT:  Bougueleret, Lydie
;  APPLICANT:  Jobert, Severin
;  APPLICANT:  Clusel, Catherine
;  TITLE OF INVENTION: Complementary DNA's Encoding Proteins with Signal Peptides
;  FILE REFERENCE: 56.US4.CIP
;  CURRENT APPLICATION NUMBER: US/09/978,360A
;  CURRENT FILING DATE:  2001-10-15
;  PRIOR APPLICATION NUMBER: US 60/066,677
;  PRIOR FILING DATE: 1997-11-13
;  PRIOR APPLICATION NUMBER: US 60/069,957
;  PRIOR FILING DATE: 1997-12-17
;  PRIOR APPLICATION NUMBER: US 60/074,121
;  PRIOR FILING DATE: 1998-02-09
;  PRIOR APPLICATION NUMBER: US 60/081,563
;  PRIOR FILING DATE: 1998-04-13
;  PRIOR APPLICATION NUMBER: US 60/096,116
;  PRIOR FILING DATE: 1998-08-10
;  PRIOR APPLICATION NUMBER: US 60/099,273
;  PRIOR FILING DATE: -09-04
;  PRIOR APPLICATION NUMBER: US 09/191,997
;  PRIOR FILING DATE: 1998-11-13
;  PRIOR APPLICATION NUMBER: US 09/215,435
;  PRIOR FILING DATE: 1998-12-17
;  PRIOR APPLICATION NUMBER: PCT/IB98/02122
;  PRIOR FILING DATE: 1998-12-17
;  PRIOR APPLICATION NUMBER: US 09/247,155
;  PRIOR FILING DATE: 1999-02-09
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 810
;  SOFTWARE: Patent.pm
; SEQ ID NO 712
;   LENGTH: 381
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SIGNAL
;   LOCATION: -13..-1
US-09-978-360A-712

  Query Match             68.5%;  Score 37;  DB 7;  Length 381;
  Best Local Similarity   71.4%;  Pred. No. 52;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CPICSQK 8
              ||:| ||
Db        278 CPVCRQK 284


RESULT 41
US-11-096-568A-5675
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; Sequence 5675, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 5675
;   LENGTH: 436
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(436)
;   OTHER INFORMATION: Ceres Seq. ID no. 14311302
US-11-096-568A-5675

  Query Match             68.5%;  Score 37;  DB 11;  Length 436;
  Best Local Similarity   55.6%;  Pred. No. 59;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              :|||| :|
Db        341 LCPICGTEP 349


RESULT 42
US-10-501-035-344
; Sequence 344, Application US/10501035
; Publication No. US20060046249A1
; GENERAL INFORMATION:
;  APPLICANT: Bristol-Myers Squibb Company
;  TITLE OF INVENTION: IDENTIFICATION OF POLYNUCLEOTIDES AND POLYPEPTIDE FOR PREDICTING
;  TITLE OF INVENTION:  ACTIVITY OF COMPOUNDS THAT INTERACT WITH PROTEIN TYROSINE KINASE
;  TITLE OF INVENTION:  AND/OR PROTEIN TYROSINE KINASE PATHWAYS
;  FILE REFERENCE: D0185 PCT
;  CURRENT APPLICATION NUMBER: US/10/501,035
;  CURRENT FILING DATE:  2004-07-09
;  PRIOR APPLICATION NUMBER: US 60/350,061
;  PRIOR FILING DATE: 2002-01-18
;  NUMBER OF SEQ ID NOS: 795
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 344
;   LENGTH: 516
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-501-035-344

  Query Match             68.5%;  Score 37;  DB 9;  Length 516;
  Best Local Similarity   71.4%;  Pred. No. 68;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CPICSQK 8
              ||||:|:
Db        204 CPICNQR 210


RESULT 43
US-11-096-568A-10280
; Sequence 10280, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 10280
;   LENGTH: 537
;   TYPE: PRT
;   ORGANISM: Triticum aestivum
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(537)
;   OTHER INFORMATION: Ceres Seq. ID no. 13585455
US-11-096-568A-10280

  Query Match             68.5%;  Score 37;  DB 11;  Length 537;
  Best Local Similarity   62.5%;  Pred. No. 70;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 CPICSQKP 9
              ||:|  ||
Db        494 CPVCLAKP 501


RESULT 44
US-11-098-686-10487
; Sequence 10487, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
;  APPLICANT: Kapur, Vivek and Gebhart, Connie J.
;  TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
;  TITLE OF INVENTION:  FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
;  FILE REFERENCE: 09531-128001
;  CURRENT APPLICATION NUMBER: US/11/098,686
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31318
;  PRIOR FILING DATE: 2003-10-01
;  PRIOR APPLICATION NUMBER: US 60/416,395
;  PRIOR FILING DATE: 2002-10-04
;  NUMBER OF SEQ ID NOS: 11433
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10487
;   LENGTH: 682
;   TYPE: PRT
;   ORGANISM: Lawsonia intracellularis
US-11-098-686-10487

  Query Match             68.5%;  Score 37;  DB 11;  Length 682;
  Best Local Similarity   50.0%;  Pred. No. 86;
  Matches    4;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VCPICSQK 8
              :||:| :|
Db        419 ICPVCHEK 426


RESULT 45
US-10-821-234-1662
; Sequence 1662, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
;  APPLICANT: Labat, Ivan
;  APPLICANT:  Stache-Crain, Birgit
;  APPLICANT:  Andarmani, Susan
;  APPLICANT:  Tang, Y. Tom
;  TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
;  FILE REFERENCE: 821A
;  CURRENT APPLICATION NUMBER: US/10/821,234
;  CURRENT FILING DATE:  2004-04-07
;  PRIOR APPLICATION NUMBER: US 60/462,047
;  PRIOR FILING DATE: 2003-04-07
;  NUMBER OF SEQ ID NOS: 1704
;  SOFTWARE: pt_SEQ_genes Version 1.0
; SEQ ID NO 1662
;   LENGTH: 747
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-821-234-1662
```

```
  Query Match             68.5%;  Score 37;  DB 9;  Length 747;
  Best Local Similarity   62.5%;  Pred. No. 93;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VCPICSQK 8
              |||:||::
Db        714 VCPMCSEQ 721


RESULT 46
US-10-530-253-30
; Sequence 30, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 30
;   LENGTH: 99
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 35
US-10-530-253-30

  Query Match             66.7%;  Score 36;  DB 9;  Length 99;
  Best Local Similarity   75.0%;  Pred. No. 24;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VCPICSQK 8
              ||| |||:
Db         91 VCPGCSQR 98


RESULT 47
US-10-821-234-1517
; Sequence 1517, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
;  APPLICANT: Labat, Ivan
;  APPLICANT:  Stache-Crain, Birgit
;  APPLICANT:  Andarmani, Susan
;  APPLICANT:  Tang, Y. Tom
;  TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
;  FILE REFERENCE: 821A
;  CURRENT APPLICATION NUMBER: US/10/821,234
;  CURRENT FILING DATE:  2004-04-07
;  PRIOR APPLICATION NUMBER: US 60/462,047
;  PRIOR FILING DATE: 2003-04-07
;  NUMBER OF SEQ ID NOS: 1704
;  SOFTWARE: pt_SEQ_genes Version 1.0
; SEQ ID NO 1517
;   LENGTH: 155
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-821-234-1517

  Query Match             66.7%;  Score 36;  DB 9;  Length 155;
  Best Local Similarity   66.7%;  Pred. No. 36;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 VCPICSQKP 9
              || || :||
Db         10 VCVICLEKP 18


RESULT 48
US-11-096-568A-2303
; Sequence 2303, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 2303
;   LENGTH: 196
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(196)
;   OTHER INFORMATION: Ceres Seq. ID no. 14309479
US-11-096-568A-2303

  Query Match             66.7%;  Score 36;  DB 11;  Length 196;
  Best Local Similarity   85.7%;  Pred. No. 44;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 PICSQKP 9
              |||| ||
Db         23 PICSSKP 29


RESULT 49
US-11-096-568A-2302
; Sequence 2302, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 2302
;   LENGTH: 200
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(200)
;   OTHER INFORMATION: Ceres Seq. ID no. 14309478
US-11-096-568A-2302

  Query Match             66.7%;  Score 36;  DB 11;  Length 200;
  Best Local Similarity   85.7%;  Pred. No. 44;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 PICSQKP 9
              |||| ||
Db         27 PICSSKP 33


RESULT 50
US-11-087-099-10169
; Sequence 10169, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
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;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 10169
;   LENGTH: 204
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(204)
;   OTHER INFORMATION: unsure at all Xaa locations
US-11-087-099-10169

  Query Match             66.7%;  Score 36;  DB 11;  Length 204;
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Search completed: May  5, 2006, 08:51:44
Job time : 9.4 secs
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OM protein - protein search, using sw model

Run on: May 5, 2006, 04:48:55 ; Search time 20.7 Seconds
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35.946 Million cell updates/sec

Title: US-08-170-344-65
Perfect score: 48
Sequence: 1 MHQKRTAMF 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
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Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 68 | 28 | 58.3 | 118 | 2 | US-09-270-767-52674 | Sequence 52674, A |
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| 190 | 27 | 56.2 | 471 | 2 | US-09-107-532A-5705 | Sequence 5705, Ap |
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| 194 | 27 | 56.2 | 473 | 4 | PCT-US94-06365-6 | Sequence 6, Appli |
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| 232 | 26 | 54.2 | 148 | 2 | US-09-439-313-377 | Sequence 377, App |
| 233 | 26 | 54.2 | 148 | 2 | US-09-352-616A-377 | Sequence 377, App |
| 234 | 26 | 54.2 | 148 | 2 | US-09-289-198-300 | Sequence 300, App |
| 235 | 26 | 54.2 | 148 | 2 | US-09-636-215-377 | Sequence 377, App |
| 236 | 26 | 54.2 | 148 | 2 | US-09-685-166A-377 | Sequence 377, App |
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| 238 | 26 | 54.2 | 148 | 2 | US-09-679-426-377 | Sequence 377, App |
| 239 | 26 | 54.2 | 148 | 2 | US-09-759-143-377 | Sequence 377, App |
| 240 | 26 | 54.2 | 148 | 2 | US-09-651-236-377 | Sequence 377, App |
| 241 | 26 | 54.2 | 148 | 2 | US-09-699-295-300 | Sequence 300, App |
| 242 | 26 | 54.2 | 148 | 2 | US-09-534-825A-300 | Sequence 300, App |
| 243 | 26 | 54.2 | 148 | 2 | US-09-657-279-377 | Sequence 377, App |
| 244 | 26 | 54.2 | 148 | 2 | US-10-012-896-377 | Sequence 377, App |
| 245 | 26 | 54.2 | 152 | 2 | US-09-252-991A-18309 | Sequence 18309, A |
| 246 | 26 | 54.2 | 158 | 1 | US-08-403-852D-29 | Sequence 29, Appl |

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| 247 | 26 | 54.2 | 158 | 2 | US-08-510-646B-30 | Sequence 30, Appl |
| 248 | 26 | 54.2 | 158 | 2 | US-09-231-818-29 | Sequence 29, Appl |
| 249 | 26 | 54.2 | 158 | 2 | US-09-635-359B-29 | Sequence 29, Appl |
| 250 | 26 | 54.2 | 165 | 2 | US-09-252-991A-22416 | Sequence 22416, A |
| 251 | 26 | 54.2 | 173 | 2 | US-09-393-634-23 | Sequence 23, Appl |
| 252 | 26 | 54.2 | 187 | 2 | US-09-328-352-7918 | Sequence 7918, Ap |
| 253 | 26 | 54.2 | 194 | 1 | US-08-773-910-3 | Sequence 3, Appli |
| 254 | 26 | 54.2 | 194 | 1 | US-08-408-095-25 | Sequence 25, Appl |
| 255 | 26 | 54.2 | 194 | 2 | US-09-199-892-3 | Sequence 3, Appli |
| 256 | 26 | 54.2 | 195 | 2 | US-09-605-703B-598 | Sequence 598, App |
| 257 | 26 | 54.2 | 199 | 2 | US-09-252-991A-29651 | Sequence 29651, A |
| 258 | 26 | 54.2 | 199 | 2 | US-09-252-991A-32787 | Sequence 32787, A |
| 259 | 26 | 54.2 | 201 | 2 | US-09-902-540-15989 | Sequence 15989, A |
| 260 | 26 | 54.2 | 203 | 2 | US-09-270-767-40441 | Sequence 40441, A |
| 261 | 26 | 54.2 | 203 | 2 | US-09-270-767-55657 | Sequence 55657, A |
| 262 | 26 | 54.2 | 205 | 1 | US-08-277-231A-5 | Sequence 5, Appli |
| 263 | 26 | 54.2 | 205 | 1 | US-08-473-750-8 | Sequence 8, Appli |
| 264 | 26 | 54.2 | 205 | 1 | US-08-477-326-8 | Sequence 8, Appli |
| 265 | 26 | 54.2 | 212 | 2 | US-09-252-991A-20153 | Sequence 20153, A |
| 266 | 26 | 54.2 | 212 | 2 | US-09-328-352-7678 | Sequence 7678, Ap |
| 267 | 26 | 54.2 | 214 | 2 | US-09-540-236-2986 | Sequence 2986, Ap |
| 268 | 26 | 54.2 | 218 | 2 | US-09-199-637A-343 | Sequence 343, App |
| 269 | 26 | 54.2 | 219 | 2 | US-09-247-373B-52 | Sequence 52, Appl |
| 270 | 26 | 54.2 | 236 | 2 | US-09-949-016-7686 | Sequence 7686, Ap |
| 271 | 26 | 54.2 | 242 | 2 | US-09-252-991A-31425 | Sequence 31425, A |
| 272 | 26 | 54.2 | 247 | 2 | US-09-107-532A-4408 | Sequence 4408, Ap |
| 273 | 26 | 54.2 | 250 | 2 | US-09-270-767-45175 | Sequence 45175, A |
| 274 | 26 | 54.2 | 254 | 2 | US-09-489-039A-12987 | Sequence 12987, A |
| 275 | 26 | 54.2 | 255 | 2 | US-09-927-738-5 | Sequence 5, Appli |
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| 277 | 26 | 54.2 | 265 | 2 | US-09-252-991A-30288 | Sequence 30288, A |
| 278 | 26 | 54.2 | 267 | 2 | US-08-969-415-4 | Sequence 4, Appli |
| 279 | 26 | 54.2 | 269 | 2 | US-09-307-925-14 | Sequence 14, Appl |
| 280 | 26 | 54.2 | 269 | 2 | US-09-270-767-45635 | Sequence 45635, A |
| 281 | 26 | 54.2 | 269 | 2 | US-09-991-582B-14 | Sequence 14, Appl |
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| 284 | 26 | 54.2 | 272 | 2 | US-09-519-489-19 | Sequence 19, Appl |
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| 286 | 26 | 54.2 | 280 | 2 | US-09-991-582B-15 | Sequence 15, Appl |
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| 295 | 26 | 54.2 | 292 | 2 | US-09-636-215-532 | Sequence 532, App |
| 296 | 26 | 54.2 | 292 | 2 | US-09-685-166A-532 | Sequence 532, App |
| 297 | 26 | 54.2 | 292 | 2 | US-09-429-755-315 | Sequence 315, App |
| 298 | 26 | 54.2 | 292 | 2 | US-09-679-426-532 | Sequence 532, App |
| 299 | 26 | 54.2 | 292 | 2 | US-09-759-143-532 | Sequence 532, App |
| 300 | 26 | 54.2 | 292 | 2 | US-09-651-236-532 | Sequence 532, App |
| 301 | 26 | 54.2 | 292 | 2 | US-09-699-295-315 | Sequence 315, App |
| 302 | 26 | 54.2 | 292 | 2 | US-09-534-825A-315 | Sequence 315, App |
| 303 | 26 | 54.2 | 292 | 2 | US-09-657-279-532 | Sequence 532, App |
| 304 | 26 | 54.2 | 292 | 2 | US-10-012-896-532 | Sequence 532, App |
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| 313 | 26 | 54.2 | 318 | 2 | US-09-721-362-81 | Sequence 81, Appl |
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| 339 | 26 | 54.2 | 342 | 2 | US-09-991-582B-18 | Sequence 18, Appl |
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| 341 | 26 | 54.2 | 343 | 2 | US-09-991-582B-9 | Sequence 9, Appli |
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| 347 | 26 | 54.2 | 350 | 1 | US-08-353-485-4 | Sequence 4, Appli |
| 348 | 26 | 54.2 | 350 | 1 | US-08-353-485-6 | Sequence 6, Appli |
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| 351 | 26 | 54.2 | 354 | 2 | US-09-991-582B-8 | Sequence 8, Appli |
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| 356 | 26 | 54.2 | 362 | 1 | US-09-076-193-3 | Sequence 3, Appli |
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| 362 | 26 | 54.2 | 362 | 2 | US-09-991-582B-3 | Sequence 3, Appli |
| 363 | 26 | 54.2 | 362 | 2 | US-09-991-582B-5 | Sequence 5, Appli |
| 364 | 26 | 54.2 | 362 | 2 | US-09-991-582B-7 | Sequence 7, Appli |
| 365 | 26 | 54.2 | 381 | 2 | US-09-252-991A-16781 | Sequence 16781, A |
| 366 | 26 | 54.2 | 384 | 2 | US-09-289-198-304 | Sequence 304, App |
| 367 | 26 | 54.2 | 384 | 2 | US-09-429-755-304 | Sequence 304, App |
| 368 | 26 | 54.2 | 384 | 2 | US-09-699-295-304 | Sequence 304, App |
| 369 | 26 | 54.2 | 384 | 2 | US-09-534-825A-304 | Sequence 304, App |
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| 371 | 26 | 54.2 | 392 | 2 | US-09-540-236-1947 | Sequence 1947, Ap |
| 372 | 26 | 54.2 | 393 | 2 | US-08-956-171E-5248 | Sequence 5248, Ap |
| 373 | 26 | 54.2 | 393 | 2 | US-08-781-986A-5248 | Sequence 5248, Ap |
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| 378 | 26 | 54.2 | 411 | 2 | US-09-252-991A-25491 | Sequence 25491, A |
| 379 | 26 | 54.2 | 412 | 2 | US-09-252-991A-26284 | Sequence 26284, A |
| 380 | 26 | 54.2 | 418 | 2 | US-09-252-991A-25726 | Sequence 25726, A |
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| 384 | 26 | 54.2 | 428 | 2 | US-09-538-092-1313 | Sequence 1313, Ap |
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| 386 | 26 | 54.2 | 436 | 2 | US-09-252-991A-22659 | Sequence 22659, A |
| 387 | 26 | 54.2 | 449 | 2 | US-09-134-000C-5444 | Sequence 5444, Ap |
| 388 | 26 | 54.2 | 449 | 2 | US-10-104-047-2749 | Sequence 2749, Ap |
| 389 | 26 | 54.2 | 450 | 2 | US-09-857-896A-18 | Sequence 18, Appl |
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| 391 | 26 | 54.2 | 476 | 2 | US-09-252-991A-19392 | Sequence 19392, A |
| 392 | 26 | 54.2 | 478 | 2 | US-09-949-016-6687 | Sequence 6687, Ap |

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| 394 | 26 | 54.2 | 492 | 2 | US-09-857-896A-38 | Sequence 38, Appl |
| 395 | 26 | 54.2 | 494 | 2 | US-09-614-912-128 | Sequence 128, App |
| 396 | 26 | 54.2 | 497 | 2 | US-09-107-532A-5279 | Sequence 5279, Ap |
| 397 | 26 | 54.2 | 498 | 2 | US-09-134-000C-5128 | Sequence 5128, Ap |
| 398 | 26 | 54.2 | 503 | 2 | US-09-068-195-24 | Sequence 24, Appl |
| 399 | 26 | 54.2 | 513 | 2 | US-09-543-681A-4981 | Sequence 4981, Ap |
| 400 | 26 | 54.2 | 514 | 2 | US-09-134-001C-4347 | Sequence 4347, Ap |
| 401 | 26 | 54.2 | 529 | 2 | US-09-699-295-324 | Sequence 324, App |
| 402 | 26 | 54.2 | 538 | 2 | US-09-489-039A-8363 | Sequence 8363, Ap |
| 403 | 26 | 54.2 | 543 | 2 | US-09-270-767-35624 | Sequence 35624, A |
| 404 | 26 | 54.2 | 543 | 2 | US-09-270-767-50841 | Sequence 50841, A |
| 405 | 26 | 54.2 | 554 | 2 | US-09-489-039A-12959 | Sequence 12959, A |
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| 411 | 26 | 54.2 | 572 | 1 | US-08-745-934-1 | Sequence 1, Appli |
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| 413 | 26 | 54.2 | 572 | 2 | US-09-147-009-6 | Sequence 6, Appli |
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| 418 | 26 | 54.2 | 591 | 2 | US-09-543-681A-7047 | Sequence 7047, Ap |
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| 422 | 26 | 54.2 | 620 | 2 | US-09-540-236-3109 | Sequence 3109, Ap |
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| 430 | 26 | 54.2 | 656 | 2 | US-09-289-198-305 | Sequence 305, App |
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| 435 | 26 | 54.2 | 656 | 2 | US-09-759-143-379 | Sequence 379, App |
| 436 | 26 | 54.2 | 656 | 2 | US-09-651-236-379 | Sequence 379, App |
| 437 | 26 | 54.2 | 656 | 2 | US-09-699-295-305 | Sequence 305, App |
| 438 | 26 | 54.2 | 656 | 2 | US-09-534-825A-305 | Sequence 305, App |
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| 444 | 26 | 54.2 | 671 | 2 | US-09-289-198-306 | Sequence 306, App |
| 445 | 26 | 54.2 | 671 | 2 | US-09-636-215-380 | Sequence 380, App |
| 446 | 26 | 54.2 | 671 | 2 | US-09-685-166A-380 | Sequence 380, App |
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| 450 | 26 | 54.2 | 671 | 2 | US-09-651-236-380 | Sequence 380, App |
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| 452 | 26 | 54.2 | 671 | 2 | US-09-534-825A-306 | Sequence 306, App |
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| 461 | 26 | 54.2 | 711 | 2 | US-09-252-991A-26402 | Sequence 26402, A |
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| 463 | 26 | 54.2 | 753 | 2 | US-09-252-991A-17612 | Sequence 17612, A |
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| 470 | 26 | 54.2 | 883 | 2 | US-09-543-681A-6612 | Sequence 6612, Ap |
| 471 | 26 | 54.2 | 887 | 1 | US-08-327-494A-4 | Sequence 4, Appli |
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| 474 | 26 | 54.2 | 976 | 1 | US-08-702-367A-18 | Sequence 18, Appl |
| 475 | 26 | 54.2 | 976 | 2 | US-09-949-016-6499 | Sequence 6499, Ap |
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| 482 | 26 | 54.2 | 1341 | 2 | US-10-076-622-565 | Sequence 565, App |
| 483 | 26 | 54.2 | 1349 | 2 | US-10-076-622-573 | Sequence 573, App |
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| 783 | 25 | 52.1 | 907 | 2 | US-09-170-496D-278 | Sequence 278, App |
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| 930 | 24 | 50.0 | 166 | 1 | US-08-689-276A-13 | Sequence 13, Appl |
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|---|---|---|---|---|---|---|
| 977 | 24 | 50.0 | 239 | 2 | US-09-107-532A-5174 | Sequence 5174, Ap |
| 978 | 24 | 50.0 | 240 | 2 | US-09-270-767-36250 | Sequence 36250, A |
| 979 | 24 | 50.0 | 240 | 2 | US-09-270-767-51467 | Sequence 51467, A |
| 980 | 24 | 50.0 | 244 | 2 | US-09-902-540-15350 | Sequence 15350, A |
| 981 | 24 | 50.0 | 244 | 2 | US-09-605-703B-2456 | Sequence 2456, Ap |
| 982 | 24 | 50.0 | 246 | 2 | US-09-252-991A-28093 | Sequence 28093, A |
| 983 | 24 | 50.0 | 246 | 2 | US-09-270-767-43861 | Sequence 43861, A |
| 984 | 24 | 50.0 | 246 | 2 | US-09-538-092-1234 | Sequence 1234, Ap |
| 985 | 24 | 50.0 | 248 | 2 | US-09-270-767-62355 | Sequence 62355, A |
| 986 | 24 | 50.0 | 249 | 2 | US-09-252-991A-16620 | Sequence 16620, A |
| 987 | 24 | 50.0 | 253 | 2 | US-10-104-047-3306 | Sequence 3306, Ap |
| 988 | 24 | 50.0 | 254 | 2 | US-09-252-991A-23082 | Sequence 23082, A |
| 989 | 24 | 50.0 | 257 | 2 | US-09-270-767-34001 | Sequence 34001, A |
| 990 | 24 | 50.0 | 257 | 2 | US-09-270-767-49218 | Sequence 49218, A |
| 991 | 24 | 50.0 | 258 | 2 | US-09-252-991A-18303 | Sequence 18303, A |
| 992 | 24 | 50.0 | 262 | 2 | US-09-107-433-4346 | Sequence 4346, Ap |
| 993 | 24 | 50.0 | 266 | 2 | US-09-252-991A-25714 | Sequence 25714, A |
| 994 | 24 | 50.0 | 268 | 2 | US-09-252-991A-32791 | Sequence 32791, A |
| 995 | 24 | 50.0 | 269 | 2 | US-09-489-039A-8536 | Sequence 8536, Ap |
| 996 | 24 | 50.0 | 271 | 2 | US-09-248-796A-25520 | Sequence 25520, A |
| 997 | 24 | 50.0 | 273 | 2 | US-09-949-016-8303 | Sequence 8303, Ap |
| 998 | 24 | 50.0 | 273 | 2 | US-09-949-016-8304 | Sequence 8304, Ap |
| 999 | 24 | 50.0 | 274 | 2 | US-09-740-028A-4 | Sequence 4, Appli |
| 1000 | 24 | 50.0 | 274 | 2 | US-10-118-037-4 | Sequence 4, Appli |

ALIGNMENTS

```
RESULT 1
US-08-159-339A-250
; Sequence 250, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  250:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-250

  Query Match             100.0%;  Score 48;  DB 2;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 4.6e+05;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              |||||||||
Db          1 MHQKRTAMF 9


RESULT 2
US-08-363-586-3
; Sequence 3, Application US/08363586
; Patent No. 5629161
;  GENERAL INFORMATION:
;    APPLICANT:  Mueller, Martin
;    APPLICANT:  Gissmann, Lutz
;    TITLE OF INVENTION:  Use of HPV-16 E6 and E7-Gene Derived
;    TITLE OF INVENTION:  Peptides for the Diagnostic Purpose
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Finnegan, Henderson, Farabow, Garrett &
;      ADDRESSEE:  Dunner
;      STREET:  1300 I Street, N.W.
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20005-3315
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/363,586
;      FILING DATE:  23-DEC-1994
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/909,296
;      FILING DATE:  09-JUL-1992
;      APPLICATION NUMBER:  EP 91111720.8
;      FILING DATE:  13-JUL-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Wadler, Linda A.
;      REGISTRATION NUMBER:  33,218
;      REFERENCE/DOCKET NUMBER:  02481-1195-00000
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-408-4000
;      TELEFAX:  202-408-4400
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  23 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-363-586-3

  Query Match             100.0%;  Score 48;  DB 1;  Length 23;
  Best Local Similarity   100.0%;  Pred. No. 0.0025;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              |||||||||
Db          1 MHQKRTAMF 9
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RESULT 3
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-2

  Query Match             100.0%;  Score 48;  DB 2;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.017;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              |||||||||
Db          1 MHQKRTAMF 9


RESULT 4
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-3

  Query Match             100.0%;  Score 48;  DB 1;  Length 162;
  Best Local Similarity   100.0%;  Pred. No. 0.017;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              |||||||||
Db          1 MHQKRTAMF 9


RESULT 5
US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-4

  Query Match             100.0%;  Score 48;  DB 1;  Length 162;
  Best Local Similarity   100.0%;  Pred. No. 0.017;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              |||||||||
Db          1 MHQKRTAMF 9


RESULT 6
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US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

  Query Match             100.0%;  Score 48;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.019;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              |||||||||
Db         70 MHQKRTAMF 78


RESULT 7
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-14

  Query Match             100.0%;  Score 48;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.019;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              |||||||||
Db         70 MHQKRTAMF 78


RESULT 8
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
;  APPLICANT:  KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION:  ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE:  017753-122
;  CURRENT APPLICATION NUMBER: US/09/462,993
;  CURRENT FILING DATE:  2000-04-17
;  PRIOR APPLICATION NUMBER:  PCT/FR98/01576
;  PRIOR FILING DATE:  1998-07-17
;  PRIOR APPLICATION NUMBER:  FR 97/09152
;  PRIOR FILING DATE:  1997-07-18
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

  Query Match             100.0%;  Score 48;  DB 2;  Length 243;
  Best Local Similarity   100.0%;  Pred. No. 0.026;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              |||||||||
Db         29 MHQKRTAMF 37


RESULT 9
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

  Query Match             100.0%;  Score 48;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.029;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              |||||||||
Db          1 MHQKRTAMF 9


RESULT 10
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US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match 100.0%; Score 48; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.029;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MHQKRTAMF 9
||||||||| |
Db 1 MHQKRTAMF 9

RESULT 11
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 48; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.029;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MHQKRTAMF 9
||||||||| |
Db 1 MHQKRTAMF 9

RESULT 12
US-08-934-915-158
; Sequence 158, Application US/08934915
; Patent No. 5932412
; GENERAL INFORMATION:
; APPLICANT: DILLNER, JOAKIM
; APPLICANT: DILLNER, LENA
; APPLICANT: CHENG, HWEE-MING
; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
; TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
; TITLE OF INVENTION: DIAGNOSTIC PURPOSES
; NUMBER OF SEQUENCES: 193
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MASON & ASSOCIATES, P.A.
; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
; CITY: CLEARWATER
; STATE: FLORIDA
; COUNTRY: U.S.A.
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 3.0
; SOFTWARE: Microsoft Word 6.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/934,915
; FILING DATE: 22-SEP-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/949,836
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: LOUISE A. Foutch
; REGISTRATION NUMBER: 37,133
; REFERENCE/DOCKET NUMBER: 1946.6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 813-538-3800
; TELEFAX: 813-538-3820
; TELEX:
; INFORMATION FOR SEQ ID NO: 158:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-934-915-158

Query Match 89.6%; Score 43; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 HQKRTAMF 9
||||||||
Db 1 HQKRTAMF 8

RESULT 13
US-08-117-083-10
; Sequence 10, Application US/08117083
; Patent No. 5719054
; GENERAL INFORMATION:
; APPLICANT: Boursnell, Michael E.
; APPLICANT: Inglis, Stephen C.
; APPLICANT: Munro, Alan J.
; TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
; TITLE OF INVENTION: Papilloma Virus Proteins
; NUMBER OF SEQUENCES: 70
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Walter H. Dreger
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS

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;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/117,083
;       FILING DATE:  10-SEP-1993
;       CLASSIFICATION:  435
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Dreger, Walter H.
;       REGISTRATION NUMBER:  24,190
;       REFERENCE/DOCKET NUMBER:  A-58783
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  415-781-1989
;       TELEFAX:  415-398-3249
;       TELEX:  910 277299
;   INFORMATION FOR SEQ ID NO:  10:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  182 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
;     FEATURE:
;       NAME/KEY:  Protein
;       LOCATION:  1..182
;       OTHER INFORMATION:  /note= "Xaa refers to stop codon in
;       OTHER INFORMATION:  the open reading frame."
US-08-117-083-10

  Query Match             81.2%;  Score 39;  DB 1;  Length 182;
  Best Local Similarity   88.9%;  Pred. No. 1.4;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              | |||||||
Db          2 MDQKRTAMF 10


RESULT 14
US-09-270-767-34874
; Sequence 34874, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 34874
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
;   FEATURE:
;   OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-34874

  Query Match             68.8%;  Score 33;  DB 2;  Length 249;
  Best Local Similarity   66.7%;  Pred. No. 34;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              :| |||||:
Db        215 IHIKRTAMY 223


RESULT 15
US-09-270-767-50091
; Sequence 50091, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 50091
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
;   FEATURE:
;   OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-50091

  Query Match             68.8%;  Score 33;  DB 2;  Length 249;
  Best Local Similarity   66.7%;  Pred. No. 34;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              :| |||||:
Db        215 IHIKRTAMY 223


RESULT 16
US-09-489-039A-10152
; Sequence 10152, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
;  APPLICANT:  Gary Breton et. al
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
;  TITLE OF INVENTION:  PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  2709.2004001
;  CURRENT APPLICATION NUMBER: US/09/489,039A
;  CURRENT FILING DATE:  2000-01-27
;  PRIOR APPLICATION NUMBER:  US 60/117,747
;  PRIOR FILING DATE:  1999-01-29
;  NUMBER OF SEQ ID NOS:  14342
; SEQ ID NO 10152
;   LENGTH: 225
;   TYPE: PRT
;   ORGANISM: Klebsiella pneumoniae
US-09-489-039A-10152

  Query Match             66.7%;  Score 32;  DB 2;  Length 225;
  Best Local Similarity   85.7%;  Pred. No. 50;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HQKRTAM 8
              |||| ||
Db          5 HQKRNAM 11


RESULT 17
US-09-270-767-43468
; Sequence 43468, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 43468
;   LENGTH: 520
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-43468

  Query Match             66.7%;  Score 32;  DB 2;  Length 520;
  Best Local Similarity   66.7%;  Pred. No. 1.1e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
```

```
              :|| ||| |
Db        289 LHQGRTAYF 297


RESULT 18
US-09-270-767-44609
; Sequence 44609, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 44609
;   LENGTH: 635
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
;   FEATURE:
;   OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-44609

  Query Match             66.7%;  Score 32;  DB 2;  Length 635;
  Best Local Similarity   75.0%;  Pred. No. 1.4e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAM 8
              :|| ||||
Db        81 IHQTRTAM 88


RESULT 19
US-08-222-616-36
; Sequence 36, Application US/08222616
; Patent No. 5635177
;  GENERAL INFORMATION:
;    APPLICANT:  Bennett, Brian D.
;    APPLICANT:  Goeddel, David
;    APPLICANT:  Lee, James M.
;    APPLICANT:  Matthews, William
;    APPLICANT:  Tsai, Siao Ping
;    APPLICANT:  Wood, William I.
;    TITLE OF INVENTION:  PROTEIN TYROSINE KINASE AGONIST
;    TITLE OF INVENTION:  ANTIBODIES
;    NUMBER OF SEQUENCES:  42
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Genentech, Inc.
;      STREET:  460 Point San Bruno Blvd
;      CITY:  South San Francisco
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94080
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  5.25 inch, 360 Kb floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  patin (Genentech)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/222,616
;      FILING DATE:  4-APR-1994
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US93/00586
;      FILING DATE:  22-JAN-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/826935
;      FILING DATE:  22-JAN-1992
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Lee, Wendy M.
;      REGISTRATION NUMBER:
;      REFERENCE/DOCKET NUMBER:  821P2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415/225-1994
;      TELEFAX:  415/952-9881
;      TELEX:  910/371-7168
;  INFORMATION FOR SEQ ID NO:  36:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1104 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
US-08-222-616-36

  Query Match             66.7%;  Score 32;  DB 1;  Length 1104;
  Best Local Similarity   66.7%;  Pred. No. 2.4e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              ||  |||:|
Db       1000 MHFNRTALF 1008


RESULT 20
US-08-446-648-36
; Sequence 36, Application US/08446648
; Patent No. 6331302
;  GENERAL INFORMATION:
;    APPLICANT:  Genentech, Inc.
;    APPLICANT:  Bennett, Brian D.
;    APPLICANT:  Goeddel, David
;    APPLICANT:  Lee, James M.
;    APPLICANT:  Matthews, William
;    APPLICANT:  Tsai, Siao Ping
;    APPLICANT:  Wood, William I.
;    TITLE OF INVENTION:  PROTEIN TYROSINE KINASE AGONIST ANTIBODIES
;    NUMBER OF SEQUENCES:  45
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Genentech, Inc.
;      STREET:  460 Point San Bruno Blvd
;      CITY:  South San Francisco
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94080
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  3.5 inch, 1.44 Mb floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  WinPatin (Genentech)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/446,648
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/222616
;      FILING DATE:  04-APR-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Lee, Wendy M.
;      REGISTRATION NUMBER:  40,378
;      REFERENCE/DOCKET NUMBER:  P0821P3PCT
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415/225-1994
;      TELEFAX:  415/952-9881
;      TELEX:  910/371-7168
;  INFORMATION FOR SEQ ID NO:  36:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1104 amino acids
;      TYPE:  Amino Acid
;      TOPOLOGY:  Linear
US-08-446-648-36

  Query Match             66.7%;  Score 32;  DB 2;  Length 1104;
  Best Local Similarity   66.7%;  Pred. No. 2.4e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
```

```
              ||  |||:|
Db       1000 MHFNRTALF 1008


RESULT 21
US-09-982-610-36
; Sequence 36, Application US/09982610
; Patent No. 6673343
;  GENERAL INFORMATION:
;       APPLICANT: Genentech, Inc.
;                  Bennett, Brian D.
;                  Goeddel, David
;                  Lee, James M.
;                  Matthews, William
;                  Tsai, Siao Ping
;                  Wood, William I.
;       TITLE OF INVENTION: PROTEIN TYROSINE KINASE AGONIST ANTIBODIES
;       NUMBER OF SEQUENCES: 45
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: Genentech, Inc.
;            STREET: 460 Point San Bruno Blvd
;            CITY: South San Francisco
;            STATE: California
;            COUNTRY: USA
;            ZIP: 94080
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: WinPatin (Genentech)
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/982,610
;            FILING DATE: 17-Oct-2001
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 08/446,648
;            FILING DATE: 1996-MAY-23
;            APPLICATION NUMBER: 08/222616
;            FILING DATE: 04-APR-1994
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Lee, Wendy M.
;            REGISTRATION NUMBER: 40,378
;            REFERENCE/DOCKET NUMBER: P0821P3PCT
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: 415/225-1994
;            TELEFAX: 415/952-9881
;            TELEX: 910/371-7168
;  INFORMATION FOR SEQ ID NO: 36:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 1104 amino acids
;            TYPE: Amino Acid
;            TOPOLOGY: Linear
;       SEQUENCE DESCRIPTION: SEQ ID NO: 36:
US-09-982-610-36

  Query Match             66.7%;  Score 32;  DB 2;  Length 1104;
  Best Local Similarity   66.7%;  Pred. No. 2.4e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              ||  |||:|
Db       1000 MHFNRTALF 1008


RESULT 22
PCT-US95-04228-36
; Sequence 36, Application PC/TUS9504228
;  GENERAL INFORMATION:
;    APPLICANT:  Genentech, Inc.
;    APPLICANT:  Bennett, Brian D.
;    APPLICANT:  Goeddel, David
;    APPLICANT:  Lee, James M.
;    APPLICANT:  Matthews, William
;    APPLICANT:  Tsai, Siao Ping
;    APPLICANT:  Wood, William I.
;    TITLE OF INVENTION:  PROTEIN TYROSINE KINASE AGONIST ANTIBODIES
;    NUMBER OF SEQUENCES:  45
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Genentech, Inc.
;      STREET:  460 Point San Bruno Blvd
;      CITY:  South San Francisco
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94080
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  5.25 inch, 360 Kb floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  patin (Genentech)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US95/04228
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/222616
;      FILING DATE:  04-APR-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Wendy M. Lee
;      REGISTRATION NUMBER:  00,000
;      REFERENCE/DOCKET NUMBER:  821P3PCT
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415/225-1994
;      TELEFAX:  415/952-9881
;      TELEX:  910/371-7168
;  INFORMATION FOR SEQ ID NO:  36:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1104 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
PCT-US95-04228-36

  Query Match             66.7%;  Score 32;  DB 4;  Length 1104;
  Best Local Similarity   66.7%;  Pred. No. 2.4e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              ||  |||:|
Db       1000 MHFNRTALF 1008


RESULT 23
US-09-107-532A-7122
; Sequence 7122, Application US/09107532A
; Patent No. 6583275
;  GENERAL INFORMATION:
;       APPLICANT: Lynn A Doucette-Stamm  and David Bush
;       TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;                           ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
;       NUMBER OF SEQUENCES: 7310
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;            STREET: 100 Beaver Street
;            CITY: Waltham
;            STATE: Massachusetts
;            COUNTRY: USA
;            ZIP: 02354
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: CD/ROM ISO9660
;            COMPUTER: PC
;            OPERATING SYSTEM: <Unknown>
;            SOFTWARE: ASCII
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/107,532A
;            FILING DATE: 30-Jun-1998
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 60/085,598
```

; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 7122:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 193 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (B) LOCATION 1...193
; SEQUENCE DESCRIPTION: SEQ ID NO: 7122:
US-09-107-532A-7122

Query Match 64.6%; Score 31; DB 2; Length 193;
Best Local Similarity 55.6%; Pred. No. 69;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MHQKRTAMF 9
||:|: |:|
Db 148 MHKKQPALF 156

RESULT 24
US-09-540-236-2944
; Sequence 2944, Application US/09540236
; Patent No. 6673910
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CATAR
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2005-001
; CURRENT APPLICATION NUMBER: US/09/540,236
; CURRENT FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 3840
; SEQ ID NO 2944
; LENGTH: 274
; TYPE: PRT
; ORGANISM: M.catarrhalis
US-09-540-236-2944

Query Match 64.6%; Score 31; DB 2; Length 274;
Best Local Similarity 71.4%; Pred. No. 97;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 HQKRTAM 8
|:||||:
Db 133 HEKRTAL 139

RESULT 25
US-09-252-991A-21873
; Sequence 21873, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21873
; LENGTH: 281
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21873

Query Match 64.6%; Score 31; DB 2; Length 281;
Best Local Similarity 71.4%; Pred. No. 1e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MHQKRTA 7
:||:|||
Db 163 LHQRRTA 169

RESULT 26
US-09-949-016-10407
; Sequence 10407, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10407
; LENGTH: 892
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-10407

Query Match 64.6%; Score 31; DB 2; Length 892;
Best Local Similarity 85.7%; Pred. No. 3.1e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 HQKRTAM 8
|||| ||
Db 761 HQKRDAM 767

RESULT 27
US-09-949-016-6391
; Sequence 6391, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6391

```
;   LENGTH: 1005
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-6391

  Query Match             64.6%;  Score 31;  DB 2;  Length 1005;
  Best Local Similarity   85.7%;  Pred. No. 3.5e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HQKRTAM 8
              |||| ||
Db        874 HQKRDAM 880


RESULT 28
US-08-637-759B-263
; Sequence 263, Application US/08637759B
; Patent No. 5876931
;  GENERAL INFORMATION:
;    APPLICANT:  David William Holden
;    TITLE OF INVENTION:  Identification of Genes
;    NUMBER OF SEQUENCES:  501
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Patrea L. Pabst
;      STREET:  2800 One Atlantic Center
;      STREET:  1201 West Peachtree Street
;      CITY:  Atlanta
;      STATE:  Georgia
;      COUNTRY:  USA
;      ZIP:  30309-3450
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/637,759B
;      FILING DATE:  03-MAY-1996
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/GB95/02875
;      FILING DATE:  11-DEC-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Pabst, Patrea L.
;      REGISTRATION NUMBER:  31,284
;      REFERENCE/DOCKET NUMBER:  RPMS 101
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (404) 873-8794
;      TELEFAX:  (404) 873-8795
;  INFORMATION FOR SEQ ID NO:  263:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  47 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-637-759B-263

  Query Match             62.5%;  Score 30;  DB 1;  Length 47;
  Best Local Similarity   66.7%;  Pred. No. 27;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              | | :||||
Db         37 MRQTQTAMF 45


RESULT 29
US-08-871-355A-263
; Sequence 263, Application US/08871355A
,; Patent No. 6015669
;  GENERAL INFORMATION:
;    APPLICANT:  David William Holden
;    TITLE OF INVENTION:  Identification of Genes
;    NUMBER OF SEQUENCES:  501
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Patrea L. Pabst
;      STREET:  2800 One Atlantic Center
;      STREET:  1201 West Peachtree Street
;      CITY:  Atlanta
;      STATE:  Georgia
;      COUNTRY:  USA
;      ZIP:  30309-3450
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/871,355A
;      FILING DATE:  09-JUN-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/GB95/02875
;      FILING DATE:  11-DEC-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Pabst, Patrea L.
;      REGISTRATION NUMBER:  31,284
;      REFERENCE/DOCKET NUMBER:  RPMS 101 CON
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (404) 873-8794
;      TELEFAX:  (404) 873-8795
;  INFORMATION FOR SEQ ID NO:  263:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  47 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-871-355A-263

  Query Match             62.5%;  Score 30;  DB 2;  Length 47;
  Best Local Similarity   66.7%;  Pred. No. 27;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              | | :||||
Db         37 MRQTQTAMF 45


RESULT 30
US-09-201-945-263
; Sequence 263, Application US/09201945
; Patent No. 6342215
;  GENERAL INFORMATION:
;    APPLICANT:  David William Holden
;    TITLE OF INVENTION:  Identification of Genes
;    NUMBER OF SEQUENCES:  501
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Patrea L. Pabst
;      STREET:  2800 One Atlantic Center
;      STREET:  1201 West Peachtree Street
;      CITY:  Atlanta
;      STATE:  Georgia
;      COUNTRY:  USA
;      ZIP:  30309-3450
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
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;      APPLICATION NUMBER:  US/09/201,945
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/637,759
;      FILING DATE:
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Pabst, Patrea L.
;      REGISTRATION NUMBER:  31,284
;      REFERENCE/DOCKET NUMBER:  RPMS 101
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (404) 873-8794
;      TELEFAX:  (404) 873-8795
;  INFORMATION FOR SEQ ID NO:  263:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  47 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-09-201-945-263

  Query Match             62.5%;  Score 30;  DB 2;  Length 47;
  Best Local Similarity   66.7%;  Pred. No. 27;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              | | :||||
Db         37 MRQTQTAMF 45


RESULT 31
US-09-489-039A-9242
; Sequence 9242, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
;  APPLICANT:  Gary Breton et. al
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
;  TITLE OF INVENTION:  PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  2709.2004001
;  CURRENT APPLICATION NUMBER: US/09/489,039A
;  CURRENT FILING DATE:  2000-01-27
;  PRIOR APPLICATION NUMBER:  US 60/117,747
;  PRIOR FILING DATE:  1999-01-29
;  NUMBER OF SEQ ID NOS:  14342
; SEQ ID NO 9242
;   LENGTH: 229
;   TYPE: PRT
;   ORGANISM: Klebsiella pneumoniae
US-09-489-039A-9242

  Query Match             62.5%;  Score 30;  DB 2;  Length 229;
  Best Local Similarity   62.5%;  Pred. No. 1.3e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 HQKRTAMF 9
              ||: | ||
Db        121 HQRATCMF 128


RESULT 32
US-09-134-000C-6713
; Sequence 6713, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
;  APPLICANT: Lynn Doucette-Stamm et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;  TITLE OF INVENTION:  ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 032796-032
;  CURRENT APPLICATION NUMBER: US/09/134,000C
;  CURRENT FILING DATE:  1998-08-13
;  PRIOR APPLICATION NUMBER: US 60/055,778
;  PRIOR FILING DATE: 1997-08-15
;  NUMBER OF SEQ ID NOS: 6812
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6713
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Enterococcus faecalis
US-09-134-000C-6713

  Query Match             62.5%;  Score 30;  DB 2;  Length 249;
  Best Local Similarity   100.0%;  Pred. No. 1.4e+02;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 KRTAMF 9
              ||||||
Db        182 KRTAMF 187


RESULT 33
US-09-252-991A-24480
; Sequence 24480, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 24480
;   LENGTH: 559
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24480

  Query Match             62.5%;  Score 30;  DB 2;  Length 559;
  Best Local Similarity   71.4%;  Pred. No. 3.2e+02;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 HQKRTAM 8
              ||:|||:
Db        548 HQQRTAL 554


RESULT 34
US-09-270-767-43484
; Sequence 43484, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 43484
;   LENGTH: 595
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
;   FEATURE:
;   OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-43484

  Query Match             62.5%;  Score 30;  DB 2;  Length 595;
  Best Local Similarity   55.6%;  Pred. No. 3.4e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;
```

```
Qy          1 MHQKRTAMF 9
              :|| || |:
Db         44 LHQGRTKMY 52
```

RESULT 35
US-09-252-991A-25314
; Sequence 25314, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 25314
; LENGTH: 655
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-25314

Query Match 62.5%; Score 30; DB 2; Length 655;
Best Local Similarity 62.5%; Pred. No. 3.7e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

```
Qy          2 HQKRTAMF 9
              ||:| |:|
Db        112 HQQRRALF 119
```

RESULT 36
US-10-363-937-4
; Sequence 4, Application US/10363937
; Patent No. 6927056
; GENERAL INFORMATION:
; APPLICANT: Todd, Stephen; Delegeane, Angelo M.;
; APPLICANT: Gandhi, Ameena R.; Nguyen, Danniel B.;
; APPLICANT: Hafalia, April J.A.; Kearney, Liam;
; APPLICANT: Lu, Yan; Lee, Ernestine A.;
; APPLICANT: Chawla, Narinder K.; Das, Debopriya;
; APPLICANT: Arvizu, Chandra S.; Yao, Monique G.;
; APPLICANT: Kallick, Deborah A.; Elliott, Vicki S.;
; APPLICANT: Ding, Li; Yue, Henry;
; APPLICANT: Reddy, Roopa; Burford, Neil;
; APPLICANT: Baughn, Mariah R.; Lal, Preeti G.;
; APPLICANT: Borowsky, Mark L.; Lu, Dyung Aina M.;
; APPLICANT: Ramkumar, Jayalaxmi; Yang, Junming;
; APPLICANT: Tribouley, Catherine M.; Khan, Farrah A.;
; APPLICANT: Gururajan, Rajagopal; Tang, Y. Tom;
; APPLICANT: Au-Young, Janice; Warren, Bridget A.;
; APPLICANT: Hernandez, Roberto; Duggan, Brendan M.
; TITLE OF INVENTION: PROTEASES
; FILE REFERENCE: PI-0212 USN
; CURRENT APPLICATION NUMBER: US/10/363,937
; CURRENT FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: PCT/US01/28161
; PRIOR FILING DATE: 2001-09-06
; PRIOR APPLICATION NUMBER: US 60/231,039
; PRIOR FILING DATE: 2000-09-08
; PRIOR APPLICATION NUMBER: US 60/232,812
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/234,850
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: US 60/236,500
; PRIOR FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: US 60/238,773
; PRIOR FILING DATE: 2000-10-05
; PRIOR APPLICATION NUMBER: US 60/239,658
; PRIOR FILING DATE: 2000-10-11
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PERL Program
; SEQ ID NO 4
; LENGTH: 743
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6927056 2923874CD1
US-10-363-937-4

Query Match 62.5%; Score 30; DB 2; Length 743;
Best Local Similarity 85.7%; Pred. No. 4.2e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 MHQKRTA 7
              |||| ||
Db         11 MHQKPTA 17
```

RESULT 37
US-09-270-767-37468
; Sequence 37468, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 37468
; LENGTH: 46
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-37468

Query Match 60.4%; Score 29; DB 2; Length 46;
Best Local Similarity 71.4%; Pred. No. 43;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 MHQKRTA 7
              || :|||
Db          6 MHNRRTA 12
```

RESULT 38
US-09-270-767-52685
; Sequence 52685, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 52685
; LENGTH: 46
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-52685

Query Match 60.4%; Score 29; DB 2; Length 46;
Best Local Similarity 71.4%; Pred. No. 43;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 MHQKRTA 7
```

```
              || :|||
Db          6 MHNRRTA 12


RESULT 39
US-09-489-039A-8579
; Sequence 8579, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
;  APPLICANT:  Gary Breton et. al
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
;  TITLE OF INVENTION:  PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  2709.2004001
;  CURRENT APPLICATION NUMBER: US/09/489,039A
;  CURRENT FILING DATE:  2000-01-27
;  PRIOR APPLICATION NUMBER:  US 60/117,747
;  PRIOR FILING DATE:  1999-01-29
;  NUMBER OF SEQ ID NOS:  14342
; SEQ ID NO 8579
;   LENGTH: 198
;   TYPE: PRT
;   ORGANISM: Klebsiella pneumoniae
US-09-489-039A-8579

  Query Match             60.4%;  Score 29;  DB 2;  Length 198;
  Best Local Similarity   44.4%;  Pred. No. 1.8e+02;
  Matches    4;  Conservative    5;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              :::||||::
Db        162 LYRKRTALY 170


RESULT 40
US-08-289-699A-2
; Sequence 2, Application US/08289699A
; Patent No. 5695993
;  GENERAL INFORMATION:
;    APPLICANT:  Fukudome, Kenji
;    APPLICANT:  Esmon, Charles T.
;    TITLE OF INVENTION:  Cloning and Regulation of an Endothelial
;    TITLE OF INVENTION:  Cell Protein C/Activated Protein C Receptor
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Patrea L. Pabst
;      STREET:  2800 One Atlantic Center, 1201 West Peachtree
;      STREET:  Street
;      CITY:  Atlanta
;      STATE:  Georgia
;      COUNTRY:  US
;      ZIP:  30306-3450
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/289,699A
;      FILING DATE:  12-AUG-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Pabst, Patrea L.
;      REGISTRATION NUMBER:  31,284
;      REFERENCE/DOCKET NUMBER:  OMRF152
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (404)873-8794
;      TELEFAX:  (404)873-8795
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  238 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
;    FEATURE:
;      NAME/KEY:  misc_feature
;      LOCATION:  1..365
;      OTHER INFORMATION:  /note= "Endothelial Cell Protein Receptor
;      OTHER INFORMATION:  encoded by
;      OTHER INFORMATION:  nucleotides 1 through 1302 of Sequence ID No. 5695993 1."
; Patent No. 5695993
;    FEATURE:
;      NAME/KEY:  Modified-site
;      LOCATION:  1..15
;      OTHER INFORMATION:  /note= "Amino acids 1-15 represent
;      OTHER INFORMATION:  a putative signal sequence."
;    FEATURE:
;      NAME/KEY:  Domain
;      LOCATION:  211..236
;      OTHER INFORMATION:  /note= "Amino acids 211-236
;      OTHER INFORMATION:  represent a putative transmembrane domain."
;    FEATURE:
;      NAME/KEY:  Active-site
;      LOCATION:  47..174
;      OTHER INFORMATION:  /note= "Amino acids 47-49, 64-66,
;      OTHER INFORMATION:  136-138 and 172-174 represent potential
;      OTHER INFORMATION:  N-glycosylation sites."
;    FEATURE:
;      NAME/KEY:  Modified-site
;      LOCATION:  17..186
;      OTHER INFORMATION:  /note= "Amino acids 17, 114, 118
;      OTHER INFORMATION:  and 186 represent extracellular cysteine
;      OTHER INFORMATION:  residues."
US-08-289-699A-2

  Query Match             60.4%;  Score 29;  DB 1;  Length 238;
  Best Local Similarity   55.6%;  Pred. No. 2.2e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              :||:||  |
Db        100 VHQERTLAF 108


RESULT 41
US-08-884-203-2
; Sequence 2, Application US/08884203
; Patent No. 5804392
;  GENERAL INFORMATION:
;    APPLICANT:  Charles T. Esmon, Deborah J.Stearns-Kurosawa and
;    APPLICANT:  Shinichiro Kurosawa
;    TITLE OF INVENTION:  DIAGNOSTIC ASSAYS USING SOLUBLE ENDOTHELIAL
;    TITLE OF INVENTION:  CELL PROTEIN C/ACTIVATED PROTEIN C RECEPTOR
;    NUMBER OF SEQUENCES:  8
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Patrea L. Pabst
;      STREET:  2800 One Atlantic Center
;      STREET:  1201 West Peachtree Street
;      CITY:  Atlanta
;      STATE:  Georgia
;      COUNTRY:  USA
;      ZIP:  30309-3450
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/884,203
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Pabst, Patrea L.
;      REGISTRATION NUMBER:  31,284
;      REFERENCE/DOCKET NUMBER:  OMRF168
;    TELECOMMUNICATION INFORMATION:
```

```
;       TELEPHONE:  (404) 873-8794
;       TELEFAX:  (404) 873-8795
;    INFORMATION FOR SEQ ID NO:  2:
;      SEQUENCE CHARACTERISTICS:
;        LENGTH:  238 amino acids
;        TYPE:  amino acid
;        TOPOLOGY:  linear
;      MOLECULE TYPE:  protein
;      HYPOTHETICAL:  NO
;      FEATURE:
;        NAME/KEY:  misc_feature
;        LOCATION:  1..365
;        OTHER INFORMATION:  /note= "Endothelial Cell Protein
;        OTHER INFORMATION:  Receptor encoded by nucleotides 1 through 1302 of Sequence ID
; Patent No. 5804392
;        OTHER INFORMATION:  No. 5804392 1."
;      FEATURE:
;        NAME/KEY:  Modified-site
;        LOCATION:  1..15
;        OTHER INFORMATION:  /note= "Amino acids 1-15 represent
;        OTHER INFORMATION:  a putative signal sequence."
;      FEATURE:
;        NAME/KEY:  Domain
;        LOCATION:  211..236
;        OTHER INFORMATION:  /note= "Amino acids 211-236
;        OTHER INFORMATION:  represent a putative transmembrane domain."
;      FEATURE:
;        NAME/KEY:  Active-site
;        LOCATION:  47..174
;        OTHER INFORMATION:  /note= "Amino acids 47-49, 64-66,
;        OTHER INFORMATION:  136-138 and 172-174 represent potential
;        OTHER INFORMATION:  N-glycosylation sites."
;      FEATURE:
;        NAME/KEY:  Active-site
;        LOCATION:  Cys 17
;        OTHER INFORMATION:  /note=immediately preceeds amino acid
;        OTHER INFORMATION:  cleavage site
;      FEATURE:
;        NAME/KEY:  Active-site
;        LOCATION:  Gly 201
;        OTHER INFORMATION:  /note=peptide inserts in alternatively
;        OTHER INFORMATION:  spliced EPCR
;      FEATURE:
;        NAME/KEY:  Modified-site
;        LOCATION:  17..186
;        OTHER INFORMATION:  /note= "Amino acids 17, 114, 118
;        OTHER INFORMATION:  and 186 represent extracellular cysteine residues."
US-08-884-203-2

  Query Match             60.4%;  Score 29;  DB 1;  Length 238;
  Best Local Similarity   55.6%;  Pred. No. 2.2e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              :||:||  |
Db        100 VHQERTLAF 108


RESULT 42
US-08-878-283-2
; Sequence 2, Application US/08878283
; Patent No. 5852171
;  GENERAL INFORMATION:
;    APPLICANT:  Fukudome, Kenji
;    APPLICANT:  Esmon, Charles T.
;    TITLE OF INVENTION:  Cloning and Regulation of an Endothelial
;    TITLE OF INVENTION:  Cell Protein C/Activated Protein C Receptor
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Patrea L. Pabst
;      STREET:  2800 One Atlantic Center, 1201 West Peachtree
;      STREET:  Street
;      CITY:  Atlanta
;      STATE:  Georgia
;      COUNTRY:  US
;      ZIP:  30306-3450
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/878,283
;      FILING DATE:
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/289,699
;      FILING DATE:  12-AUG-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Pabst, Patrea L.
;      REGISTRATION NUMBER:  31,284
;      REFERENCE/DOCKET NUMBER:  OMRF152
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (404)873-8794
;      TELEFAX:  (404)873-8795
;    INFORMATION FOR SEQ ID NO:  2:
;      SEQUENCE CHARACTERISTICS:
;        LENGTH:  238 amino acids
;        TYPE:  amino acid
;        TOPOLOGY:  linear
;      MOLECULE TYPE:  protein
;      HYPOTHETICAL:  NO
;      FEATURE:
;        NAME/KEY:  misc_feature
;        LOCATION:  1..365
;        OTHER INFORMATION:  /note= "Endothelial Cell Protein Receptor
;        OTHER INFORMATION:  encoded by
;        OTHER INFORMATION:  nucleotides 1 through 1302 of Sequence ID No. 5852171 1."
; Patent No. 5852171
;      FEATURE:
;        NAME/KEY:  Modified-site
;        LOCATION:  1..15
;        OTHER INFORMATION:  /note= "Amino acids 1-15 represent
;        OTHER INFORMATION:  a putative signal sequence."
;      FEATURE:
;        NAME/KEY:  Domain
;        LOCATION:  211..236
;        OTHER INFORMATION:  /note= "Amino acids 211-236
;        OTHER INFORMATION:  represent a putative transmembrane domain."
;      FEATURE:
;        NAME/KEY:  Active-site
;        LOCATION:  47..174
;        OTHER INFORMATION:  /note= "Amino acids 47-49, 64-66,
;        OTHER INFORMATION:  136-138 and 172-174 represent potential
;        OTHER INFORMATION:  N-glycosylation sites."
;      FEATURE:
;        NAME/KEY:  Modified-site
;        LOCATION:  17..186
;        OTHER INFORMATION:  /note= "Amino acids 17, 114, 118
;        OTHER INFORMATION:  and 186 represent extracellular cysteine
;        OTHER INFORMATION:  residues."
US-08-878-283-2

  Query Match             60.4%;  Score 29;  DB 1;  Length 238;
  Best Local Similarity   55.6%;  Pred. No. 2.2e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              :||:||  |
Db        100 VHQERTLAF 108


RESULT 43
US-09-082-021-2
; Sequence 2, Application US/09082021
; Patent No. 6037450
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```
; GENERAL INFORMATION:
;   APPLICANT:  Charles T. Esmon, Deborah J.Stearns-Kurosawa and
;   APPLICANT:  Shinichiro Kurosawa
;   TITLE OF INVENTION:  DIAGNOSTIC ASSAYS USING SOLUBLE ENDOTHELIAL
;   TITLE OF INVENTION:  CELL PROTEIN C/ACTIVATED PROTEIN C RECEPTOR
;   NUMBER OF SEQUENCES:  8
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE:  Patrea L. Pabst
;     STREET:  2800 One Atlantic Center
;     STREET:  1201 West Peachtree Street
;     CITY:  Atlanta
;     STATE:  Georgia
;     COUNTRY:  USA
;     ZIP:  30309-3450
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE:  Floppy disk
;     COMPUTER:  IBM PC compatible
;     OPERATING SYSTEM:  PC-DOS/MS-DOS
;     SOFTWARE:  PatentIn Release #1.0, Version #1.25
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER:  US/09/082,021
;     FILING DATE:
;     CLASSIFICATION:
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER:  08/884,203
;     FILING DATE:
;   ATTORNEY/AGENT INFORMATION:
;     NAME:  Pabst, Patrea L.
;     REGISTRATION NUMBER:  31,284
;     REFERENCE/DOCKET NUMBER:  OMRF168
;   TELECOMMUNICATION INFORMATION:
;     TELEPHONE:  (404) 873-8794
;     TELEFAX:  (404) 873-8795
;  INFORMATION FOR SEQ ID NO:  2:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH:  238 amino acids
;     TYPE:  amino acid
;     TOPOLOGY:  linear
;   MOLECULE TYPE:  protein
;   HYPOTHETICAL:  NO
;   FEATURE:
;     NAME/KEY:  misc_feature
;     LOCATION:  1..365
;     OTHER INFORMATION:  /note= "Endothelial Cell Protein
;     OTHER INFORMATION:  Receptor encoded by nucleotides 1 through 1302 of Sequence ID
; Patent No. 6037450
;     OTHER INFORMATION:  No. 6037450 1."
;   FEATURE:
;     NAME/KEY:  Modified-site
;     LOCATION:  1..15
;     OTHER INFORMATION:  /note= "Amino acids 1-15 represent
;     OTHER INFORMATION:  a putative signal sequence."
;   FEATURE:
;     NAME/KEY:  Domain
;     LOCATION:  211..236
;     OTHER INFORMATION:  /note= "Amino acids 211-236
;     OTHER INFORMATION:  represent a putative transmembrane domain."
;   FEATURE:
;     NAME/KEY:  Active-site
;     LOCATION:  47..174
;     OTHER INFORMATION:  /note= "Amino acids 47-49, 64-66,
;     OTHER INFORMATION:  136-138 and 172-174 represent potential
;     OTHER INFORMATION:  N-glycosylation sites."
;   FEATURE:
;     NAME/KEY:  Active-site
;     LOCATION:  Cys 17
;     OTHER INFORMATION:  /note=immediately preceeds amino acid
;     OTHER INFORMATION:  cleavage site
;   FEATURE:
;     NAME/KEY:  Active-site
;     LOCATION:  Gly 201
;     OTHER INFORMATION:  /note=peptide inserts in alternatively
;     OTHER INFORMATION:  spliced EPCR
;   FEATURE:
;     NAME/KEY:  Modified-site
;     LOCATION:  17..186
;     OTHER INFORMATION:  /note= "Amino acids 17, 114, 118
;     OTHER INFORMATION:  and 186 represent extracellular cysteine residues."
US-09-082-021-2

  Query Match             60.4%;  Score 29;  DB 2;  Length 238;
  Best Local Similarity   55.6%;  Pred. No. 2.2e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              :||:||  |
Db        100 VHQERTLAF 108


RESULT 44
US-09-182-616-2
; Sequence 2, Application US/09182616
; Patent No. 6399064
;   GENERAL INFORMATION:
;        APPLICANT: Fukudome, Kenji
;                   Esmon, Charles T.
;        TITLE OF INVENTION: Cloning and Regulation of an Endothelial
;                            Cell Protein C/Activated Protein C Receptor
;        NUMBER OF SEQUENCES: 6
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Patrea L. Pabst
;             STREET: 2800 One Atlantic Center, 1201 West Peachtree
;                     Street
;             CITY: Atlanta
;             STATE: Georgia
;             COUNTRY: US
;             ZIP: 30306-3450
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.25
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/182,616
;             FILING DATE: 29-Oct-1998
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 08/878,283
;             FILING DATE: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Pabst, Patrea L.
;             REGISTRATION NUMBER: 31,284
;             REFERENCE/DOCKET NUMBER: OMRF152
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (404)873-8794
;             TELEFAX: (404)873-8795
;   INFORMATION FOR SEQ ID NO: 2:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 238 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        HYPOTHETICAL: NO
;        FEATURE:
;             NAME/KEY:  misc_feature
;             LOCATION:  1..365
;             OTHER INFORMATION:  /note= "Endothelial Cell Protein Receptor
;             encoded by
;             nucleotides 1 through 1302 of Sequence ID No. 6399064 1."
; Patent No. 6399064
;        FEATURE:
;             NAME/KEY:  Modified-site
;             LOCATION:  1..15
;             OTHER INFORMATION:  /note= "Amino acids 1-15 represent
;             a putative signal sequence."
;        FEATURE:
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;             NAME/KEY:  Domain
;             LOCATION:  211..236
;             OTHER INFORMATION:  /note= "Amino acids 211-236
;             represent a putative transmembrane domain."
;         FEATURE:
;             NAME/KEY:  Active-site
;             LOCATION:  47..174
;             OTHER INFORMATION:  /note= "Amino acids 47-49, 64-66,
;             136-138 and 172-174 represent potential
;             N-glycosylation sites."
;         FEATURE:
;             NAME/KEY:  Modified-site
;             LOCATION:  17..186
;             OTHER INFORMATION:  /note= "Amino acids 17, 114, 118
;             and 186 represent extracellular cysteine
;             residues."
;         SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-182-616-2

  Query Match             60.4%;  Score 29;  DB 2;  Length 238;
  Best Local Similarity   55.6%;  Pred. No. 2.2e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              :||:||  |
Db        100 VHQERTLAF 108


RESULT 45
US-09-949-016-6725
; Sequence 6725, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6725
;   LENGTH: 238
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-6725

  Query Match             60.4%;  Score 29;  DB 2;  Length 238;
  Best Local Similarity   55.6%;  Pred. No. 2.2e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              :||:||  |
Db        100 VHQERTLAF 108


RESULT 46
US-09-134-000C-4947
; Sequence 4947, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
;  APPLICANT: Lynn Doucette-Stamm et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;  TITLE OF INVENTION:  ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 032796-032
;  CURRENT APPLICATION NUMBER: US/09/134,000C
;  CURRENT FILING DATE:  1998-08-13
;  PRIOR APPLICATION NUMBER: US 60/055,778
;  PRIOR FILING DATE: 1997-08-15
;  NUMBER OF SEQ ID NOS: 6812
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4947
;   LENGTH: 239
;   TYPE: PRT
;   ORGANISM: Enterococcus faecalis
US-09-134-000C-4947

  Query Match             60.4%;  Score 29;  DB 2;  Length 239;
  Best Local Similarity   62.5%;  Pred. No. 2.2e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HQKRTAMF 9
              :||:|| |
Db        126 YQKKTAQF 133


RESULT 47
US-09-949-016-10136
; Sequence 10136, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10136
;   LENGTH: 246
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-10136

  Query Match             60.4%;  Score 29;  DB 2;  Length 246;
  Best Local Similarity   55.6%;  Pred. No. 2.3e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              :||:||  |
Db        108 VHQERTLAF 116


RESULT 48
US-09-107-532A-4563
; Sequence 4563, Application US/09107532A
; Patent No. 6583275
;  GENERAL INFORMATION:
;       APPLICANT: Lynn A Doucette-Stamm  and David Bush
;       TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;                           ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
;       NUMBER OF SEQUENCES: 7310
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;            STREET: 100 Beaver Street
;            CITY: Waltham
;            STATE: Massachusetts
;            COUNTRY: USA
;            ZIP: 02354
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: CD/ROM ISO9660
;            COMPUTER: PC
;            OPERATING SYSTEM: <Unknown>
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;           SOFTWARE: ASCII
;         CURRENT APPLICATION DATA:
;           APPLICATION NUMBER: US/09/107,532A
;           FILING DATE: 30-Jun-1998
;         PRIOR APPLICATION DATA:
;           APPLICATION NUMBER: 60/085,598
;           FILING DATE: 14 May 1998
;           APPLICATION NUMBER: 60/051571
;           FILING DATE: July 2, 1997
;         ATTORNEY/AGENT INFORMATION:
;           NAME: Ariniello, Pamela Deneke
;           REGISTRATION NUMBER: 40,489
;           REFERENCE/DOCKET NUMBER: GTC-012
;         TELECOMMUNICATION INFORMATION:
;           TELEPHONE: (781)893-5007
;           TELEFAX: (781)893-8277
;    INFORMATION FOR SEQ ID NO: 4563:
;         SEQUENCE CHARACTERISTICS:
;           LENGTH: 340 amino acids
;           TYPE: amino acid
;           TOPOLOGY: linear
;         MOLECULE TYPE: protein
;         HYPOTHETICAL: YES
;         ORIGINAL SOURCE:
;           ORGANISM: Enterococcus faecium
;         FEATURE:
;           NAME/KEY:  misc_feature
;           LOCATION: (B) LOCATION 1...340
;         SEQUENCE DESCRIPTION: SEQ ID NO: 4563:
US-09-107-532A-4563

  Query Match             60.4%;  Score 29;  DB 2;  Length 340;
  Best Local Similarity   85.7%;  Pred. No. 3.1e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HQKRTAM 8
              ||| |||
Db        234 HQKVTAM 240


RESULT 49
US-09-543-681A-5769
; Sequence 5769, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
;  APPLICANT: GARY BRETON
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABIL
;  TITLE OF INVENTION:  DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 2709.1002-001
;  CURRENT APPLICATION NUMBER: US/09/543,681A
;  CURRENT FILING DATE:  2000-04-05
;  PRIOR APPLICATION NUMBER: US 60/128,706
;  PRIOR FILING DATE: 1999-04-09
;  NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 5769
;   LENGTH: 353
;   TYPE: PRT
;   ORGANISM: Proteus mirabilis
US-09-543-681A-5769

  Query Match             60.4%;  Score 29;  DB 2;  Length 353;
  Best Local Similarity   71.4%;  Pred. No. 3.2e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HQKRTAM 8
              ||:|| |
Db         37 HQRRTLM 43


RESULT 50
US-09-248-796A-14836
; Sequence 14836, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 14836
;   LENGTH: 356
;   TYPE: PRT
;   ORGANISM: Candida albicans
US-09-248-796A-14836

  Query Match             60.4%;  Score 29;  DB 2;  Length 356;
  Best Local Similarity   55.6%;  Pred. No. 3.3e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              :| ||| :|
Db          2 LHVKRTPIF 10


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OM protein - protein search, using sw model

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Title: US-08-170-344-65
Perfect score: 48
Sequence: 1 MHQKRTAMF 9

Scoring table: BLOSUM62
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Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_Main:*
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
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| 1 | 48 | 100.0 | 22 | 4 | US-10-476-570-59 | Sequence 59, Appl |
| 2 | 48 | 100.0 | 158 | 5 | US-10-858-384-2 | Sequence 2, Appli |
| 3 | 48 | 100.0 | 158 | 5 | US-10-367-057-16 | Sequence 16, Appl |
| 4 | 48 | 100.0 | 158 | 6 | US-11-021-949-13 | Sequence 13, Appl |
| 5 | 48 | 100.0 | 243 | 6 | US-11-072-288-1 | Sequence 1, Appli |
| 6 | 48 | 100.0 | 266 | 3 | US-09-367-309A-1 | Sequence 1, Appli |
| 7 | 48 | 100.0 | 536 | 4 | US-10-367-095-10 | Sequence 10, Appl |
| 8 | 48 | 100.0 | 536 | 4 | US-10-368-046-10 | Sequence 10, Appl |
| 9 | 48 | 100.0 | 536 | 4 | US-10-367-367-10 | Sequence 10, Appl |
| 10 | 48 | 100.0 | 536 | 5 | US-10-918-337-10 | Sequence 10, Appl |
| 11 | 43 | 89.6 | 171 | 4 | US-10-472-724-2 | Sequence 2, Appli |
| 12 | 34 | 70.8 | 51 | 4 | US-10-029-386-32092 | Sequence 32092, A |
| 13 | 33 | 68.8 | 73 | 4 | US-10-424-599-154256 | Sequence 154256, |
| 14 | 33 | 68.8 | 190 | 4 | US-10-424-599-263544 | Sequence 263544, |
| 15 | 33 | 68.8 | 436 | 4 | US-10-038-854-130 | Sequence 130, App |
| 16 | 32 | 66.7 | 66 | 4 | US-10-424-599-159338 | Sequence 159338, |
| 17 | 32 | 66.7 | 94 | 4 | US-10-425-114-47963 | Sequence 47963, A |
| 18 | 32 | 66.7 | 112 | 4 | US-10-424-599-178972 | Sequence 178972, |
| 19 | 32 | 66.7 | 174 | 4 | US-10-424-599-168961 | Sequence 168961, |
| 20 | 32 | 66.7 | 481 | 4 | US-10-203-319A-20 | Sequence 20, Appl |
| 21 | 32 | 66.7 | 504 | 4 | US-10-424-599-168323 | Sequence 168323, |
| 22 | 32 | 66.7 | 729 | 6 | US-11-097-143-6183 | Sequence 6183, Ap |
| 23 | 32 | 66.7 | 743 | 5 | US-10-965-017-9 | Sequence 9, Appli |
| 24 | 32 | 66.7 | 759 | 5 | US-10-965-017-3 | Sequence 3, Appli |
| 25 | 32 | 66.7 | 1104 | 3 | US-09-982-610-36 | Sequence 36, Appl |
| 26 | 32 | 66.7 | 2771 | 4 | US-10-437-963-195406 | Sequence 195406, |
| 27 | 32 | 66.7 | 2882 | 4 | US-10-437-963-195412 | Sequence 195412, |
| 28 | 31 | 64.6 | 63 | 4 | US-10-029-386-31107 | Sequence 31107, A |
| 29 | 31 | 64.6 | 67 | 4 | US-10-425-115-300764 | Sequence 300764, |
| 30 | 31 | 64.6 | 153 | 4 | US-10-425-115-206745 | Sequence 206745, |
| 31 | 31 | 64.6 | 311 | 4 | US-10-786-720-57 | Sequence 57, Appl |
| 32 | 31 | 64.6 | 311 | 5 | US-10-774-355A-1447 | Sequence 1447, Ap |
| 33 | 31 | 64.6 | 311 | 5 | US-10-756-149-4791 | Sequence 4791, Ap |
| 34 | 31 | 64.6 | 496 | 6 | US-11-097-143-25047 | Sequence 25047, A |
| 35 | 31 | 64.6 | 944 | 5 | US-10-450-763-32763 | Sequence 32763, A |
| 36 | 31 | 64.6 | 1089 | 5 | US-10-450-763-32761 | Sequence 32761, A |
| 37 | 31 | 64.6 | 4455 | 4 | US-10-287-226-304 | Sequence 304, App |
| 38 | 30 | 62.5 | 33 | 4 | US-10-424-599-241203 | Sequence 241203, |
| 39 | 30 | 62.5 | 58 | 4 | US-10-425-115-307508 | Sequence 307508, |
| 40 | 30 | 62.5 | 62 | 4 | US-10-424-599-262525 | Sequence 262525, |
| 41 | 30 | 62.5 | 72 | 4 | US-10-424-599-250945 | Sequence 250945, |
| 42 | 30 | 62.5 | 73 | 4 | US-10-767-701-42125 | Sequence 42125, A |
| 43 | 30 | 62.5 | 75 | 4 | US-10-425-115-238277 | Sequence 238277, |
| 44 | 30 | 62.5 | 80 | 4 | US-10-424-599-255598 | Sequence 255598, |
| 45 | 30 | 62.5 | 80 | 4 | US-10-363-616-348 | Sequence 348, App |
| 46 | 30 | 62.5 | 80 | 4 | US-10-408-765A-400 | Sequence 400, App |
| 47 | 30 | 62.5 | 81 | 4 | US-10-425-115-205781 | Sequence 205781, |
| 48 | 30 | 62.5 | 87 | 4 | US-10-083-357-905 | Sequence 905, App |
| 49 | 30 | 62.5 | 138 | 4 | US-10-156-761-12705 | Sequence 12705, A |
| 50 | 30 | 62.5 | 145 | 4 | US-10-767-701-52503 | Sequence 52503, A |
| 51 | 30 | 62.5 | 160 | 5 | US-10-450-763-56305 | Sequence 56305, A |
| 52 | 30 | 62.5 | 171 | 4 | US-10-017-161-1490 | Sequence 1490, Ap |
| 53 | 30 | 62.5 | 171 | 4 | US-10-292-798-1196 | Sequence 1196, Ap |
| 54 | 30 | 62.5 | 200 | 6 | US-11-097-143-34383 | Sequence 34383, A |
| 55 | 30 | 62.5 | 205 | 5 | US-10-450-763-56309 | Sequence 56309, A |
| 56 | 30 | 62.5 | 231 | 5 | US-10-450-763-56311 | Sequence 56311, A |
| 57 | 30 | 62.5 | 247 | 4 | US-10-282-122A-57895 | Sequence 57895, A |
| 58 | 30 | 62.5 | 270 | 3 | US-09-934-455-162 | Sequence 162, App |
| 59 | 30 | 62.5 | 270 | 4 | US-10-225-066A-590 | Sequence 590, App |
| 60 | 30 | 62.5 | 270 | 4 | US-10-374-780A-208 | Sequence 208, App |
| 61 | 30 | 62.5 | 270 | 5 | US-10-225-066A-590 | Sequence 590, App |
| 62 | 30 | 62.5 | 274 | 4 | US-10-282-122A-66320 | Sequence 66320, A |
| 63 | 30 | 62.5 | 275 | 5 | US-10-626-832-32 | Sequence 32, Appl |
| 64 | 30 | 62.5 | 318 | 4 | US-10-017-161-130 | Sequence 130, App |
| 65 | 30 | 62.5 | 318 | 4 | US-10-025-806-92 | Sequence 92, Appl |
| 66 | 30 | 62.5 | 318 | 4 | US-10-292-798-110 | Sequence 110, App |
| 67 | 30 | 62.5 | 318 | 4 | US-10-467-252-20 | Sequence 20, Appl |
| 68 | 30 | 62.5 | 319 | 4 | US-10-437-963-181424 | Sequence 181424, |
| 69 | 30 | 62.5 | 378 | 4 | US-10-344-738-102 | Sequence 102, App |
| 70 | 30 | 62.5 | 394 | 4 | US-10-437-963-204768 | Sequence 204768, |
| 71 | 30 | 62.5 | 447 | 6 | US-11-097-143-39705 | Sequence 39705, A |
| 72 | 30 | 62.5 | 452 | 4 | US-10-282-122A-53766 | Sequence 53766, A |
| 73 | 30 | 62.5 | 465 | 4 | US-10-369-493-3141 | Sequence 3141, Ap |
| 74 | 30 | 62.5 | 492 | 4 | US-10-369-493-6197 | Sequence 6197, Ap |
| 75 | 30 | 62.5 | 743 | 4 | US-10-363-937-4 | Sequence 4, Appli |
| 76 | 30 | 62.5 | 743 | 6 | US-11-167-040-4 | Sequence 4, Appli |
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| 79 | 30 | 62.5 | 1232 | 5 | US-10-450-763-49438 | Sequence 49438, A |
| 80 | 30 | 62.5 | 1366 | 4 | US-10-203-295-5 | Sequence 5, Appli |
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| 85 | 29 | 60.4 | 80 | 4 | US-10-424-599-162020 | Sequence 162020, |
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| 87 | 29 | 60.4 | 87 | 4 | US-10-425-115-266862 | Sequence 266862, |
| 88 | 29 | 60.4 | 96 | 4 | US-10-424-599-212386 | Sequence 212386, |
| 89 | 29 | 60.4 | 110 | 4 | US-10-424-599-183204 | Sequence 183204, |
| 90 | 29 | 60.4 | 114 | 4 | US-10-087-192-1611 | Sequence 1611, Ap |
| 91 | 29 | 60.4 | 121 | 4 | US-10-205-823-115 | Sequence 115, App |
| 92 | 29 | 60.4 | 121 | 6 | US-11-051-454-115 | Sequence 115, App |
| 93 | 29 | 60.4 | 128 | 4 | US-10-335-977-6282 | Sequence 6282, Ap |
| 94 | 29 | 60.4 | 129 | 5 | US-10-482-706-5 | Sequence 5, Appli |
| 95 | 29 | 60.4 | 141 | 4 | US-10-437-963-195366 | Sequence 195366, |
| 96 | 29 | 60.4 | 145 | 5 | US-10-732-923-21606 | Sequence 21606, A |
| 97 | 29 | 60.4 | 148 | 4 | US-10-335-977-6283 | Sequence 6283, Ap |
| 98 | 29 | 60.4 | 151 | 4 | US-10-425-115-226709 | Sequence 226709, |
| 99 | 29 | 60.4 | 158 | 4 | US-10-425-114-72907 | Sequence 72907, A |
| 100 | 29 | 60.4 | 167 | 4 | US-10-424-599-190064 | Sequence 190064, |

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| 104 | 29 | 60.4 | 178 | 4 | US-10-282-122A-58869 | Sequence 58869, A |
| 105 | 29 | 60.4 | 178 | 4 | US-10-335-977-6284 | Sequence 6284, Ap |
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| 108 | 29 | 60.4 | 206 | 4 | US-10-411-224-122 | Sequence 122, App |
| 109 | 29 | 60.4 | 206 | 4 | US-10-047-021-68 | Sequence 68, Appl |
| 110 | 29 | 60.4 | 206 | 4 | US-10-047-021-122 | Sequence 122, App |
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| 112 | 29 | 60.4 | 206 | 5 | US-10-874-706-40 | Sequence 40, Appl |
| 113 | 29 | 60.4 | 206 | 5 | US-10-489-740-132 | Sequence 132, App |
| 114 | 29 | 60.4 | 206 | 5 | US-10-644-765-181 | Sequence 181, App |
| 115 | 29 | 60.4 | 206 | 5 | US-10-970-493-68 | Sequence 68, Appl |
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| 123 | 29 | 60.4 | 238 | 5 | US-10-741-600-1541 | Sequence 1541, Ap |
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| 128 | 29 | 60.4 | 280 | 4 | US-10-080-170-374 | Sequence 374, App |
| 129 | 29 | 60.4 | 280 | 4 | US-10-468-356-374 | Sequence 374, App |
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| 135 | 29 | 60.4 | 374 | 4 | US-10-044-564-68 | Sequence 68, Appl |
| 136 | 29 | 60.4 | 374 | 4 | US-10-408-765A-927 | Sequence 927, App |
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| 138 | 29 | 60.4 | 385 | 4 | US-10-425-115-314666 | Sequence 314666, |
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| 140 | 29 | 60.4 | 394 | 4 | US-10-099-322-67 | Sequence 67, Appl |
| 141 | 29 | 60.4 | 394 | 4 | US-10-044-564-66 | Sequence 66, Appl |
| 142 | 29 | 60.4 | 394 | 4 | US-10-044-564-67 | Sequence 67, Appl |
| 143 | 29 | 60.4 | 394 | 4 | US-10-188-186-134 | Sequence 134, App |
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| 147 | 29 | 60.4 | 441 | 5 | US-10-732-923-1319 | Sequence 1319, Ap |
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| 154 | 29 | 60.4 | 485 | 4 | US-10-225-067-8 | Sequence 8, Appli |
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| 156 | 29 | 60.4 | 485 | 5 | US-10-225-068-50 | Sequence 50, Appl |
| 157 | 29 | 60.4 | 485 | 5 | US-10-225-066A-802 | Sequence 802, App |
| 158 | 29 | 60.4 | 505 | 4 | US-10-104-047-2553 | Sequence 2553, Ap |
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| 163 | 29 | 60.4 | 560 | 5 | US-10-450-763-44845 | Sequence 44845, A |
| 164 | 29 | 60.4 | 563 | 4 | US-10-282-122A-78083 | Sequence 78083, A |
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| 176 | 29 | 60.4 | 960 | 4 | US-10-214-390-4 | Sequence 4, Appli |
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| 178 | 29 | 60.4 | 1232 | 4 | US-10-292-798-2038 | Sequence 2038, Ap |
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| 184 | 29 | 60.4 | 2058 | 4 | US-10-211-462-207 | Sequence 207, App |
| 185 | 29 | 60.4 | 2058 | 4 | US-10-648-593-188 | Sequence 188, App |
| 186 | 29 | 60.4 | 2058 | 5 | US-10-723-860-742 | Sequence 742, App |
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| 192 | 28 | 58.3 | 18 | 4 | US-10-084-813-172 | Sequence 172, App |
| 193 | 28 | 58.3 | 18 | 4 | US-10-084-813-173 | Sequence 173, App |
| 194 | 28 | 58.3 | 20 | 4 | US-10-225-567A-866 | Sequence 866, App |
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| 203 | 28 | 58.3 | 76 | 4 | US-10-437-963-113959 | Sequence 113959, |
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| 272 | 28 | 58.3 | 352 | 3 | US-09-751-708A-37 | Sequence 37, Appl |
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| 279 | 28 | 58.3 | 352 | 4 | US-10-014-322A-126 | Sequence 126, App |
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| 295 | 28 | 58.3 | 352 | 5 | US-10-791-166-6 | Sequence 6, Appli |
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| 317 | 28 | 58.3 | 428 | 3 | US-09-909-320-142 | Sequence 142, App |
| 318 | 28 | 58.3 | 428 | 3 | US-09-909-088B-142 | Sequence 142, App |
| 319 | 28 | 58.3 | 428 | 3 | US-09-905-291A-142 | Sequence 142, App |
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| 329 | 28 | 58.3 | 428 | 3 | US-09-907-942-142 | Sequence 142, App |
| 330 | 28 | 58.3 | 428 | 3 | US-09-904-859-142 | Sequence 142, App |
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| 861 | 28 | 58.3 | 428 | 4 | US-10-157-798-330 | Sequence 330, App |
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| 868 | 28 | 58.3 | 428 | 4 | US-10-141-703-330 | Sequence 330, App |
| 869 | 28 | 58.3 | 428 | 4 | US-10-141-706-330 | Sequence 330, App |
| 870 | 28 | 58.3 | 428 | 4 | US-10-141-757-330 | Sequence 330, App |
| 871 | 28 | 58.3 | 428 | 4 | US-10-141-762-330 | Sequence 330, App |
| 872 | 28 | 58.3 | 428 | 4 | US-10-142-428-330 | Sequence 330, App |
| 873 | 28 | 58.3 | 428 | 4 | US-10-142-429-330 | Sequence 330, App |
| 874 | 28 | 58.3 | 428 | 4 | US-10-142-884-330 | Sequence 330, App |
| 875 | 28 | 58.3 | 428 | 4 | US-10-143-027-330 | Sequence 330, App |
| 876 | 28 | 58.3 | 428 | 4 | US-10-143-115-330 | Sequence 330, App |
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| 879 | 28 | 58.3 | 428 | 4 | US-10-145-632-330 | Sequence 330, App |
| 880 | 28 | 58.3 | 428 | 4 | US-10-145-749-330 | Sequence 330, App |
| 881 | 28 | 58.3 | 428 | 4 | US-10-145-753-330 | Sequence 330, App |
| 882 | 28 | 58.3 | 428 | 4 | US-10-145-871-330 | Sequence 330, App |
| 883 | 28 | 58.3 | 428 | 4 | US-10-145-878-330 | Sequence 330, App |
| 884 | 28 | 58.3 | 428 | 4 | US-10-146-794-330 | Sequence 330, App |
| 885 | 28 | 58.3 | 428 | 4 | US-10-147-489-330 | Sequence 330, App |
| 886 | 28 | 58.3 | 428 | 4 | US-10-147-507-330 | Sequence 330, App |
| 887 | 28 | 58.3 | 428 | 4 | US-10-147-535-330 | Sequence 330, App |
| 888 | 28 | 58.3 | 428 | 4 | US-10-147-537-330 | Sequence 330, App |
| 889 | 28 | 58.3 | 428 | 4 | US-10-152-376-330 | Sequence 330, App |
| 890 | 28 | 58.3 | 428 | 4 | US-10-152-381-330 | Sequence 330, App |
| 891 | 28 | 58.3 | 428 | 4 | US-10-152-400-330 | Sequence 330, App |
| 892 | 28 | 58.3 | 428 | 4 | US-10-153-585-330 | Sequence 330, App |
| 893 | 28 | 58.3 | 428 | 4 | US-10-157-780-330 | Sequence 330, App |
| 894 | 28 | 58.3 | 428 | 4 | US-10-157-800-330 | Sequence 330, App |
| 895 | 28 | 58.3 | 428 | 4 | US-10-157-801-330 | Sequence 330, App |
| 896 | 28 | 58.3 | 428 | 4 | US-10-157-802-330 | Sequence 330, App |
| 897 | 28 | 58.3 | 428 | 4 | US-10-158-784-330 | Sequence 330, App |
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| 904 | 28 | 58.3 | 428 | 4 | US-10-140-865-330 | Sequence 330, App |
| 905 | 28 | 58.3 | 428 | 4 | US-10-141-701-330 | Sequence 330, App |
| 906 | 28 | 58.3 | 428 | 4 | US-10-141-754-330 | Sequence 330, App |
| 907 | 28 | 58.3 | 428 | 4 | US-10-141-760-330 | Sequence 330, App |
| 908 | 28 | 58.3 | 428 | 4 | US-10-142-425-330 | Sequence 330, App |
| 909 | 28 | 58.3 | 428 | 4 | US-10-142-430-330 | Sequence 330, App |
| 910 | 28 | 58.3 | 428 | 4 | US-10-143-113-330 | Sequence 330, App |
| 911 | 28 | 58.3 | 428 | 4 | US-10-146-730-330 | Sequence 330, App |
| 912 | 28 | 58.3 | 428 | 4 | US-10-146-792-330 | Sequence 330, App |
| 913 | 28 | 58.3 | 428 | 4 | US-10-158-791-330 | Sequence 330, App |
| 914 | 28 | 58.3 | 428 | 4 | US-10-156-843-330 | Sequence 330, App |
| 915 | 28 | 58.3 | 428 | 4 | US-10-157-786-330 | Sequence 330, App |
| 916 | 28 | 58.3 | 428 | 4 | US-10-152-405-330 | Sequence 330, App |
| 917 | 28 | 58.3 | 428 | 4 | US-10-298-993-142 | Sequence 142, App |
| 918 | 28 | 58.3 | 428 | 4 | US-10-147-528-330 | Sequence 330, App |
| 919 | 28 | 58.3 | 428 | 4 | US-10-305-654-36 | Sequence 36, Appl |
| 920 | 28 | 58.3 | 428 | 4 | US-10-448-923-142 | Sequence 142, App |
| 921 | 28 | 58.3 | 428 | 4 | US-10-449-656-142 | Sequence 142, App |
| 922 | 28 | 58.3 | 428 | 4 | US-10-232-226-102 | Sequence 102, App |
| 923 | 28 | 58.3 | 428 | 4 | US-10-448-713-142 | Sequence 142, App |
| 924 | 28 | 58.3 | 428 | 4 | US-10-128-692A-330 | Sequence 330, App |
| 925 | 28 | 58.3 | 428 | 4 | US-10-140-927-330 | Sequence 330, App |
| 926 | 28 | 58.3 | 428 | 4 | US-10-230-130-102 | Sequence 102, App |
| 927 | 28 | 58.3 | 428 | 4 | US-10-425-447-142 | Sequence 142, App |
| 928 | 28 | 58.3 | 428 | 4 | US-10-147-493-330 | Sequence 330, App |
| 929 | 28 | 58.3 | 428 | 4 | US-10-145-127-330 | Sequence 330, App |
| 930 | 28 | 58.3 | 428 | 4 | US-10-160-503-330 | Sequence 330, App |
| 931 | 28 | 58.3 | 428 | 4 | US-10-143-118-330 | Sequence 330, App |
| 932 | 28 | 58.3 | 428 | 4 | US-10-144-993-330 | Sequence 330, App |
| 933 | 28 | 58.3 | 428 | 4 | US-10-158-787-330 | Sequence 330, App |
| 934 | 28 | 58.3 | 428 | 4 | US-10-081-056-36 | Sequence 36, Appl |
| 935 | 28 | 58.3 | 428 | 4 | US-10-219-535-102 | Sequence 102, App |
| 936 | 28 | 58.3 | 428 | 4 | US-10-232-230-102 | Sequence 102, App |
| 937 | 28 | 58.3 | 428 | 4 | US-10-142-426-330 | Sequence 330, App |
| 938 | 28 | 58.3 | 428 | 4 | US-10-140-024-330 | Sequence 330, App |
| 939 | 28 | 58.3 | 428 | 4 | US-10-147-536-330 | Sequence 330, App |
| 940 | 28 | 58.3 | 428 | 4 | US-10-119-480-102 | Sequence 102, App |
| 941 | 28 | 58.3 | 428 | 4 | US-10-152-372-330 | Sequence 330, App |
| 942 | 28 | 58.3 | 428 | 4 | US-10-215-371-142 | Sequence 142, App |
| 943 | 28 | 58.3 | 428 | 4 | US-10-797-366-142 | Sequence 142, App |
| 944 | 28 | 58.3 | 428 | 4 | US-10-771-187-142 | Sequence 142, App |
| 945 | 28 | 58.3 | 428 | 4 | US-10-125-795-330 | Sequence 330, App |
| 946 | 28 | 58.3 | 428 | 4 | US-10-145-626-330 | Sequence 330, App |
| 947 | 28 | 58.3 | 428 | 4 | US-10-145-819-330 | Sequence 330, App |
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| 949 | 28 | 58.3 | 428 | 4 | US-10-147-513-330 | Sequence 330, App |
| 950 | 28 | 58.3 | 428 | 4 | US-10-147-518-330 | Sequence 330, App |
| 951 | 28 | 58.3 | 428 | 5 | US-10-145-961-330 | Sequence 330, App |
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| 955 | 28 | 58.3 | 428 | 5 | US-10-147-531-330 | Sequence 330, App |
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| 957 | 28 | 58.3 | 428 | 5 | US-10-158-788-330 | Sequence 330, App |
| 958 | 28 | 58.3 | 428 | 5 | US-10-963-467-142 | Sequence 142, App |
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| 960 | 28 | 58.3 | 428 | 5 | US-10-955-952-330 | Sequence 330, App |
| 961 | 28 | 58.3 | 428 | 5 | US-10-970-823-142 | Sequence 142, App |
| 962 | 28 | 58.3 | 428 | 6 | US-11-056-802-2 | Sequence 2, Appli |
| 963 | 28 | 58.3 | 428 | 6 | US-11-057-966-2 | Sequence 2, Appli |
| 964 | 28 | 58.3 | 433 | 4 | US-10-282-122A-64161 | Sequence 64161, A |
| 965 | 28 | 58.3 | 434 | 4 | US-10-437-963-130957 | Sequence 130957, |
| 966 | 28 | 58.3 | 447 | 4 | US-10-425-114-56067 | Sequence 56067, A |
| 967 | 28 | 58.3 | 448 | 3 | US-09-738-626-4036 | Sequence 4036, Ap |
| 968 | 28 | 58.3 | 448 | 5 | US-10-732-923-20265 | Sequence 20265, A |
| 969 | 28 | 58.3 | 448 | 5 | US-10-450-763-46860 | Sequence 46860, A |
| 970 | 28 | 58.3 | 454 | 4 | US-10-437-963-117097 | Sequence 117097, |
| 971 | 28 | 58.3 | 463 | 4 | US-10-282-122A-54567 | Sequence 54567, A |
| 972 | 28 | 58.3 | 481 | 4 | US-10-424-599-251557 | Sequence 251557, |
| 973 | 28 | 58.3 | 481 | 4 | US-10-425-115-198076 | Sequence 198076, |
| 974 | 28 | 58.3 | 500 | 4 | US-10-425-114-67771 | Sequence 67771, A |
| 975 | 28 | 58.3 | 500 | 4 | US-10-425-115-244431 | Sequence 244431, |
| 976 | 28 | 58.3 | 505 | 3 | US-09-931-457A-54 | Sequence 54, Appl |

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| 977 | 28 | 58.3 | 509 | 4 | US-10-425-114-61289 | Sequence 61289, A |
| 978 | 28 | 58.3 | 532 | 4 | US-10-425-114-45826 | Sequence 45826, A |
| 979 | 28 | 58.3 | 535 | 4 | US-10-424-599-181962 | Sequence 181962, |
| 980 | 28 | 58.3 | 561 | 4 | US-10-128-714-3167 | Sequence 3167, Ap |
| 981 | 28 | 58.3 | 561 | 4 | US-10-424-599-248099 | Sequence 248099, |
| 982 | 28 | 58.3 | 569 | 4 | US-10-369-493-217 | Sequence 217, App |
| 983 | 28 | 58.3 | 569 | 4 | US-10-282-122A-49873 | Sequence 49873, A |
| 984 | 28 | 58.3 | 594 | 5 | US-10-732-923-8901 | Sequence 8901, Ap |
| 985 | 28 | 58.3 | 602 | 4 | US-10-425-115-340574 | Sequence 340574, |
| 986 | 28 | 58.3 | 606 | 3 | US-09-771-467C-4 | Sequence 4, Appli |
| 987 | 28 | 58.3 | 607 | 4 | US-10-128-714-8167 | Sequence 8167, Ap |
| 988 | 28 | 58.3 | 608 | 4 | US-10-437-963-143604 | Sequence 143604, |
| 989 | 28 | 58.3 | 618 | 4 | US-10-369-493-23430 | Sequence 23430, A |
| 990 | 28 | 58.3 | 618 | 5 | US-10-732-923-18571 | Sequence 18571, A |
| 991 | 28 | 58.3 | 620 | 4 | US-10-369-493-1626 | Sequence 1626, Ap |
| 992 | 28 | 58.3 | 628 | 4 | US-10-425-114-66875 | Sequence 66875, A |
| 993 | 28 | 58.3 | 630 | 4 | US-10-425-114-72799 | Sequence 72799, A |
| 994 | 28 | 58.3 | 638 | 4 | US-10-425-114-71838 | Sequence 71838, A |
| 995 | 28 | 58.3 | 659 | 5 | US-10-213-974-23 | Sequence 23, Appl |
| 996 | 28 | 58.3 | 669 | 5 | US-10-489-425-18 | Sequence 18, Appl |
| 997 | 28 | 58.3 | 677 | 5 | US-10-732-923-1794 | Sequence 1794, Ap |
| 998 | 28 | 58.3 | 679 | 4 | US-10-437-963-184628 | Sequence 184628, |
| 999 | 28 | 58.3 | 688 | 4 | US-10-195-144-79 | Sequence 79, Appl |
| 1000 | 28 | 58.3 | 688 | 4 | US-10-369-493-5438 | Sequence 5438, Ap |

ALIGNMENTS

```
RESULT 1
US-10-476-570-59
; Sequence 59, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 59
;   LENGTH: 22
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 1-22
US-10-476-570-59

  Query Match             100.0%;  Score 48;  DB 4;  Length 22;
  Best Local Similarity   100.0%;  Pred. No. 0.0068;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
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Db          1 MHQKRTAMF 9


RESULT 2
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT:  BOURGAULT VILLADA, ISABELLE
; APPLICANT:  GUILLET, JEAN-GERARD
; APPLICANT:  CONNAN, FRANCINE
; APPLICANT:  FERRIES, ESTELLE
; TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE:  2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-10-858-384-2

  Query Match             100.0%;  Score 48;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.049;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              |||||||||
Db          1 MHQKRTAMF 9


RESULT 3
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
;  APPLICANT: Cuthill, Scott;
;  APPLICANT:  Jackson, Amanda;
;  APPLICANT:  Lewin, David A.;
;  APPLICANT:  Ooi, Chean Eng
;  TITLE OF INVENTION: Complexes and Methods of Using Same
;  FILE REFERENCE: 21402-559
;  CURRENT APPLICATION NUMBER: US/10/367,057
;  CURRENT FILING DATE:  2003-02-14
;  PRIOR APPLICATION NUMBER: 60/256,911
;  PRIOR FILING DATE: 2002-02-14
;  NUMBER OF SEQ ID NOS: 198
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 16
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-367-057-16

  Query Match             100.0%;  Score 48;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.049;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              |||||||||
Db          1 MHQKRTAMF 9


RESULT 4
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
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; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

Query Match 100.0%; Score 48; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MHQKRTAMF 9
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Db 1 MHQKRTAMF 9

RESULT 5
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOUL, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/11/072,288
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US/09/462,993
; PRIOR FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Derivated from
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
; OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

Query Match 100.0%; Score 48; DB 6; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.075;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MHQKRTAMF 9
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Db 29 MHQKRTAMF 37

RESULT 6
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 48; DB 3; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.082;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MHQKRTAMF 9
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Db 1 MHQKRTAMF 9

RESULT 7
US-10-367-095-10
; Sequence 10, Application US/10367095
; Publication No. US20030228696A1
; GENERAL INFORMATION:
; APPLICANT: Robin A. Robinson
; TITLE OF INVENTION: No. US20030228696A1el Insect Cell Line
; FILE REFERENCE: 44149-1US1
; CURRENT APPLICATION NUMBER: US/10/367,095
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 60/356,119
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,161
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,118
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,133
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,157
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,156
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,123
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,113
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,154
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,135
; PRIOR FILING DATE: 2002-02-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 536
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HPV-16 L2/E6 fusion protein
US-10-367-095-10

Query Match 100.0%; Score 48; DB 4; Length 536;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MHQKRTAMF 9
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Db 471 MHQKRTAMF 479

RESULT 8

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US-10-368-046-10
; Sequence 10, Application US/10368046
; Publication No. US20040063188A1
; GENERAL INFORMATION:
;  APPLICANT: Robin A. Robinson
;  APPLICANT:  Vittoria Cioce
;  TITLE OF INVENTION: Method for Isolation and Purification of
;  TITLE OF INVENTION:  Expressed Gene Products In Vitro
;  FILE REFERENCE: 44149-3US1
;  CURRENT APPLICATION NUMBER: US/10/368,046
;  CURRENT FILING DATE:  2003-02-15
;  PRIOR APPLICATION NUMBER: US 60/356,119
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,161
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,118
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,133
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,157
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,156
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,123
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,113
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,154
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,135
;  PRIOR FILING DATE: 2002-02-14
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 13
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
;   LENGTH: 536
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: HPV-16 L2/E6 fusion protein
US-10-368-046-10

  Query Match             100.0%;  Score 48;  DB 4;  Length 536;
  Best Local Similarity   100.0%;  Pred. No. 0.17;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              |||||||||
Db        471 MHQKRTAMF 479


RESULT 9
US-10-367-367-10
; Sequence 10, Application US/10367367
; Publication No. US20040121465A1
; GENERAL INFORMATION:
;  APPLICANT: Robin A. Robinson
;  TITLE OF INVENTION: Optimization of Gene Sequences of
;  TITLE OF INVENTION:  Virus-Like Particles for Expression in Insect Cells
;  FILE REFERENCE: 44149-2US1
;  CURRENT APPLICATION NUMBER: US/10/367,367
;  CURRENT FILING DATE:  2003-02-15
;  PRIOR APPLICATION NUMBER: US 60/356,119
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,161
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,118
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,133
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,157
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,156
;  PRIOR FILING DATE: 2002-02-14
;  NUMBER OF SEQ ID NOS: 13
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
;   LENGTH: 536
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: HPV-16 L2/E6 fusion protein
US-10-367-367-10

  Query Match             100.0%;  Score 48;  DB 4;  Length 536;
  Best Local Similarity   100.0%;  Pred. No. 0.17;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              |||||||||
Db        471 MHQKRTAMF 479


RESULT 10
US-10-918-337-10
; Sequence 10, Application US/10918337
; Publication No. US20050118191A1
; GENERAL INFORMATION:
;  APPLICANT: NOVAVAX, INC., et al.
;  TITLE OF INVENTION: Optimization of Gene Sequences of
;  TITLE OF INVENTION:  Chimeric Virus-Like Particles for Expression in Insect Cells
;  FILE REFERENCE: 19065/2132
;  CURRENT APPLICATION NUMBER: US/10/918,337
;  CURRENT FILING DATE:  2004-08-13
;  PRIOR APPLICATION NUMBER: PCT/US03/04473
;  PRIOR FILING DATE: 2003-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,119
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,161
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,118
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,133
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,157
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,156
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,123
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,113
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,154
;  PRIOR FILING DATE: 2002-02-14
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 13
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
;   LENGTH: 536
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: HPV-16 L2/E6 fusion protein
US-10-918-337-10

  Query Match             100.0%;  Score 48;  DB 5;  Length 536;
  Best Local Similarity   100.0%;  Pred. No. 0.17;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              |||||||||
Db        471 MHQKRTAMF 479


RESULT 11
US-10-472-724-2
```

; Sequence 2, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 171
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

Query Match 89.6%; Score 43; DB 4; Length 171;
Best Local Similarity 100.0%; Pred. No. 0.59;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 HQKRTAMF 9
||||||||
Db 7 HQKRTAMF 14

RESULT 12
US-10-029-386-32092
; Sequence 32092, Application US/10029386
; Publication No. US20030194704A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR G
; TITLE OF INVENTION: EXPRESSION ANALYSIS TWO
; FILE REFERENCE: AEOMICA-X-2
; CURRENT APPLICATION NUMBER: US/10/029,386
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 34288
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 32092
; LENGTH: 51
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL022067.1
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.2
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2.1
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.9
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.35
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 2.1
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 2.7
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.6
; OTHER INFORMATION: SWISSPROT HIT: P39768, EVALUE 4.30e-01
US-10-029-386-32092

Query Match 70.8%; Score 34; DB 4; Length 51;
Best Local Similarity 85.7%; Pred. No. 14;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 HQKRTAM 8
|||||:|
Db 17 HQKRTSM 23

RESULT 13
US-10-424-599-154256
; Sequence 154256, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 154256
; LENGTH: 73
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_110314C.1.pep
US-10-424-599-154256

Query Match 68.8%; Score 33; DB 4; Length 73;
Best Local Similarity 75.0%; Pred. No. 32;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 HQKRTAMF 9
| |:||||
Db 39 HWKKTAMF 46

RESULT 14
US-10-424-599-263544
; Sequence 263544, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 263544
; LENGTH: 190
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_7C.1.pep
US-10-424-599-263544

Query Match 68.8%; Score 33; DB 4; Length 190;
Best Local Similarity 85.7%; Pred. No. 83;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 HQKRTAM 8
||||| |
Db 94 HQKRTCM 100

RESULT 15
US-10-038-854-130
; Sequence 130, Application US/10038854
; Publication No. US20040022781A1
; GENERAL INFORMATION:
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Li, Li
; APPLICANT: Wolenc, Adam R
; APPLICANT: Vernet, Corine
; APPLICANT: Eisen, Andrew J

```
;  APPLICANT:  Liu, Xiaohong
;  APPLICANT:  Malyankar, Uriel M
;  APPLICANT:  Shimkets, Richard A
;  APPLICANT:  Tchernev, Velizar
;  APPLICANT:  Spaderna, Steven K
;  APPLICANT:  Gorman, Linda
;  APPLICANT:  Kekuda, Ramesh
;  APPLICANT:  Patturajan, Meera
;  APPLICANT:  Gusev, Vladimir Y
;  APPLICANT:  Gangolli, Esha A
;  APPLICANT:  Guo, Xiaojia S
;  APPLICANT:  Shenoy, Suresh G
;  APPLICANT:  Rastelli, Luca
;  APPLICANT:  Casman, Stacie J
;  APPLICANT:  Boldog, Ferenc
;  APPLICANT:  Burgess, Catherine E
;  APPLICANT:  Edinger, Shlomit R
;  APPLICANT:  Ellerman, Karen
;  APPLICANT:  Gunther, Erik
;  APPLICANT:  Smithson, Glennda
;  APPLICANT:  Millet, Isabelle
;  APPLICANT:  MacDougall, John R
;  TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
;  FILE REFERENCE: 21402-230
;  CURRENT APPLICATION NUMBER: US/10/038,854
;  CURRENT FILING DATE:  2003-01-22
;  PRIOR APPLICATION NUMBER: 60/258,928
;  PRIOR FILING DATE: 2000-12-29
;  PRIOR APPLICATION NUMBER: 60/259,415
;  PRIOR FILING DATE: 2001-01-02
;  PRIOR APPLICATION NUMBER: 60/259,785
;  PRIOR FILING DATE: 2001-01-04
;  PRIOR APPLICATION NUMBER: 60/269,814
;  PRIOR FILING DATE: 2001-02-20
;  PRIOR APPLICATION NUMBER: 60/279,832
;  PRIOR FILING DATE: 2001-03-29
;  PRIOR APPLICATION NUMBER: 60/279,833
;  PRIOR FILING DATE: 2001-03-29
;  PRIOR APPLICATION NUMBER: 60/279,863
;  PRIOR FILING DATE: 2001-03-29
;  PRIOR APPLICATION NUMBER: 60/283,889
;  PRIOR FILING DATE: 2001-04-13
;  PRIOR APPLICATION NUMBER: 60/284,447
;  PRIOR FILING DATE: 2001-04-18
;  PRIOR APPLICATION NUMBER: 60/286,683
;  PRIOR FILING DATE: 2001-04-25
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 411
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 130
;   LENGTH: 436
;   TYPE: PRT
;   ORGANISM: Staphylococcus aureus
US-10-038-854-130

  Query Match             68.8%;  Score 33;  DB 4;  Length 436;
  Best Local Similarity   75.0%;  Pred. No. 1.9e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HQKRTAMF 9
              || |||:|
Db         41 HQTRTAVF 48


RESULT 16
US-10-424-599-159338
; Sequence 159338, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 159338
;   LENGTH: 66
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_114902C.1.pep
US-10-424-599-159338

  Query Match             66.7%;  Score 32;  DB 4;  Length 66;
  Best Local Similarity   75.0%;  Pred. No. 47;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 HQKRTAMF 9
              |||||  |
Db         31 HQKRTCPF 38


RESULT 17
US-10-425-114-47963
; Sequence 47963, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 47963
;   LENGTH: 94
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: 700553710_FLI.pep
US-10-425-114-47963

  Query Match             66.7%;  Score 32;  DB 4;  Length 94;
  Best Local Similarity   75.0%;  Pred. No. 67;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 HQKRTAMF 9
              |||  |||
Db         85 HQKNEAMF 92


RESULT 18
US-10-424-599-178972
; Sequence 178972, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 178972
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; LENGTH: 112
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(112)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_132628C.1.pep
US-10-424-599-178972

Query Match 66.7%; Score 32; DB 4; Length 112;
Best Local Similarity 62.5%; Pred. No. 80;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 HQKRTAMF 9
|:||| :|
Db 105 HKKRTGLF 112

RESULT 19
US-10-424-599-168961
; Sequence 168961, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 168961
; LENGTH: 174
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_123587C.1.pep
US-10-424-599-168961

Query Match 66.7%; Score 32; DB 4; Length 174;
Best Local Similarity 85.7%; Pred. No. 1.2e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 HQKRTAM 8
|||| ||
Db 101 HQKRAAM 107

RESULT 20
US-10-203-319A-20
; Sequence 20, Application US/10203319A
; Publication No. US20030226162A1
; GENERAL INFORMATION:
; APPLICANT: BOWLES, Diana Joy
; APPLICANT: LI, Yi
; APPLICANT: LIM, Eng-Kiat
; TITLE OF INVENTION: TRANSGENIC CELLS EXPRESSING GLUCOSYLTRANSFERASE NUCLEIC ACIDS
; FILE REFERENCE: 2347/51378
; CURRENT APPLICATION NUMBER: US/10/203,319A
; CURRENT FILING DATE: 2002-12-03
; PRIOR APPLICATION NUMBER: PCT/GB01/00477
; PRIOR FILING DATE: 2001-02-08
; PRIOR APPLICATION NUMBER: GB 0002814.2
; PRIOR FILING DATE: 2000-02-09
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20
; LENGTH: 481
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-10-203-319A-20

Query Match 66.7%; Score 32; DB 4; Length 481;
Best Local Similarity 75.0%; Pred. No. 3.4e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MHQKRTAM 8
|||| ||:
Db 101 MHQKPTAL 108

RESULT 21
US-10-424-599-168323
; Sequence 168323, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 168323
; LENGTH: 504
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(504)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_123010C.1.pep
US-10-424-599-168323

Query Match 66.7%; Score 32; DB 4; Length 504;
Best Local Similarity 75.0%; Pred. No. 3.6e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 HQKRTAMF 9
||| |||
Db 495 HQKNEAMF 502

RESULT 22
US-11-097-143-6183
; Sequence 6183, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; TITLE OF INVENTION: DROSOPHILA GENES.
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12

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;  PRIOR APPLICATION NUMBER: 60/184,831
;  PRIOR FILING DATE: 2000-02-24
;  PRIOR APPLICATION NUMBER: 60/191,637
;  PRIOR FILING DATE: 2000-03-23
;  NUMBER OF SEQ ID NOS: 43008
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6183
;   LENGTH: 729
;   TYPE: PRT
;   ORGANISM: DROSOPHILA
US-11-097-143-6183

  Query Match             66.7%;  Score 32;  DB 6;  Length 729;
  Best Local Similarity   66.7%;  Pred. No. 5.2e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              :|| ||| |
Db        275 LHQGRTAYF 283


RESULT 23
US-10-965-017-9
; Sequence 9, Application US/10965017
; Publication No. US20050100995A1
; GENERAL INFORMATION:
;  APPLICANT: Weaver, Craig
;  APPLICANT:  Zirkle, Ross
;  APPLICANT:  James, Metz G.
;  TITLE OF INVENTION: PUFA Polyketide Synthase Systems and Uses Thereof
;  FILE REFERENCE: 2997-49-1
;  CURRENT APPLICATION NUMBER: US/10/965,017
;  CURRENT FILING DATE:  2004-10-13
;  PRIOR APPLICATION NUMBER: 10/810,352
;  PRIOR FILING DATE: 2004-03-24
;  PRIOR APPLICATION NUMBER: 60/457,979
;  PRIOR FILING DATE: 2003-03-26
;  PRIOR APPLICATION NUMBER: 10/124,800
;  PRIOR FILING DATE: 2002-04-16
;  PRIOR APPLICATION NUMBER: 60/284,066
;  PRIOR FILING DATE: 2001-04-16
;  PRIOR APPLICATION NUMBER: 60/298,796
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/323,269
;  PRIOR FILING DATE: 2001-09-18
;  PRIOR APPLICATION NUMBER: 09/231,899
;  PRIOR FILING DATE: 1999-01-14
;  NUMBER OF SEQ ID NOS: 62
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
;   LENGTH: 743
;   TYPE: PRT
;   ORGANISM: Sh. olleyana
US-10-965-017-9

  Query Match             66.7%;  Score 32;  DB 5;  Length 743;
  Best Local Similarity   66.7%;  Pred. No. 5.3e+02;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              ||| | | |
Db        206 MHQNRVASF 214


RESULT 24
US-10-965-017-3
; Sequence 3, Application US/10965017
; Publication No. US20050100995A1
; GENERAL INFORMATION:
;  APPLICANT: Weaver, Craig
;  APPLICANT:  Zirkle, Ross
;  APPLICANT:  James, Metz G.
;  TITLE OF INVENTION: PUFA Polyketide Synthase Systems and Uses Thereof
;  FILE REFERENCE: 2997-49-1
;  CURRENT APPLICATION NUMBER: US/10/965,017
;  CURRENT FILING DATE:  2004-10-13
;  PRIOR APPLICATION NUMBER: 10/810,352
;  PRIOR FILING DATE: 2004-03-24
;  PRIOR APPLICATION NUMBER: 60/457,979
;  PRIOR FILING DATE: 2003-03-26
;  PRIOR APPLICATION NUMBER: 10/124,800
;  PRIOR FILING DATE: 2002-04-16
;  PRIOR APPLICATION NUMBER: 60/284,066
;  PRIOR FILING DATE: 2001-04-16
;  PRIOR APPLICATION NUMBER: 60/298,796
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/323,269
;  PRIOR FILING DATE: 2001-09-18
;  PRIOR APPLICATION NUMBER: 09/231,899
;  PRIOR FILING DATE: 1999-01-14
;  NUMBER OF SEQ ID NOS: 62
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 759
;   TYPE: PRT
;   ORGANISM: Sh. japonica
US-10-965-017-3

  Query Match             66.7%;  Score 32;  DB 5;  Length 759;
  Best Local Similarity   66.7%;  Pred. No. 5.4e+02;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              ||| | | |
Db        214 MHQNRVASF 222


RESULT 25
US-09-982-610-36
; Sequence 36, Application US/09982610
; Patent No. US20020146420A1
;  GENERAL INFORMATION:
;       APPLICANT: Genentech, Inc.
;                  Bennett, Brian D.
;                  Goeddel, David
;                  Lee, James M.
;                  Matthews, William
;                  Tsai, Siao Ping
;                  Wood, William I.
;       TITLE OF INVENTION: PROTEIN TYROSINE KINASE AGONIST ANTIBODIES
;       NUMBER OF SEQUENCES: 45
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: Genentech, Inc.
;            STREET: 460 Point San Bruno Blvd
;            CITY: South San Francisco
;            STATE: California
;            COUNTRY: USA
;            ZIP: 94080
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: WinPatin (Genentech)
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/982,610
;            FILING DATE: 17-Oct-2001
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 08/446,648
;            FILING DATE: 1996-MAY-23
;            APPLICATION NUMBER: 08/222616
;            FILING DATE: 04-APR-1994
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Lee, Wendy M.
;            REGISTRATION NUMBER: 40,378
;            REFERENCE/DOCKET NUMBER: P0821P3PCT
```

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;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 415/225-1994
;             TELEFAX: 415/952-9881
;             TELEX: 910/371-7168
;    INFORMATION FOR SEQ ID NO: 36:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 1104 amino acids
;             TYPE: Amino Acid
;             TOPOLOGY: Linear
;        SEQUENCE DESCRIPTION: SEQ ID NO: 36:
US-09-982-610-36

  Query Match             66.7%;  Score 32;  DB 3;  Length 1104;
  Best Local Similarity   66.7%;  Pred. No. 7.8e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              ||  |||:|
Db       1000 MHFNRTALF 1008


RESULT 26
US-10-437-963-195406
; Sequence 195406, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 195406
;   LENGTH: 2771
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_91358C.1.pep
US-10-437-963-195406

  Query Match             66.7%;  Score 32;  DB 4;  Length 2771;
  Best Local Similarity   62.5%;  Pred. No. 2e+03;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAM 8
              |||::||:
Db        420 MHQRQTAL 427


RESULT 27
US-10-437-963-195412
; Sequence 195412, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 195412
;   LENGTH: 2882
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(2882)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_91363C.1.pep
US-10-437-963-195412

  Query Match             66.7%;  Score 32;  DB 4;  Length 2882;
  Best Local Similarity   62.5%;  Pred. No. 2e+03;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAM 8
              |||::||:
Db        371 MHQRQTAL 378


RESULT 28
US-10-029-386-31107
; Sequence 31107, Application US/10029386
; Publication No. US20030194704A1
; GENERAL INFORMATION:
;  APPLICANT: Penn, Sharron G.
;  APPLICANT:  Rank, David R.
;  APPLICANT:  Hanzel, David K.
;  TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR GE
;  TITLE OF INVENTION:  EXPRESSION ANALYSIS TWO
;  FILE REFERENCE: AEOMICA-X-2
;  CURRENT APPLICATION NUMBER: US/10/029,386
;  CURRENT FILING DATE:  2001-12-20
;  NUMBER OF SEQ ID NOS: 34288
;  SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 31107
;   LENGTH: 63
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   OTHER INFORMATION: MAP TO AC009509.7
;   OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.6
;   OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2.3
;   OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.2
;   OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.5
;   OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL =   2
;   OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.9
;   OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 2.2
;   OTHER INFORMATION: SWISSPROT HIT: P39533, EVALUE 6.00e+00
US-10-029-386-31107

  Query Match             64.6%;  Score 31;  DB 4;  Length 63;
  Best Local Similarity   85.7%;  Pred. No. 73;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HQKRTAM 8
              |||| ||
Db         42 HQKRDAM 48


RESULT 29
US-10-425-115-300764
; Sequence 300764, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
```

```
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 300764
;   LENGTH: 67
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_37367C.1.pep
US-10-425-115-300764

  Query Match             64.6%;  Score 31;  DB 4;  Length 67;
  Best Local Similarity   75.0%;  Pred. No. 78;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 HQKRTAMF 9
              | |||| |
Db         52 HPKRTASF 59


RESULT 30
US-10-425-115-206745
; Sequence 206745, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 206745
;   LENGTH: 153
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(153)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_120134C.1.pep
US-10-425-115-206745

  Query Match             64.6%;  Score 31;  DB 4;  Length 153;
  Best Local Similarity   62.5%;  Pred. No. 1.8e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAM 8
              :|||||  :
Db         65 LHQKRTRL 72


RESULT 31
US-10-786-720-57
; Sequence 57, Application US/10786720
; Publication No. US20040191818A1
; GENERAL INFORMATION:
;  APPLICANT: Wyeth
;  APPLICANT:  O'Toole, Margot
;  APPLICANT:  Liu, Wei
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
;  TITLE OF INVENTION:  DISEASES
;  FILE REFERENCE: 031896-023000 (AM101331L)
;  CURRENT APPLICATION NUMBER: US/10/786,720
;  CURRENT FILING DATE:  2004-02-26
;  NUMBER OF SEQ ID NOS: 21135
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 57
;   LENGTH: 311
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-786-720-57

  Query Match             64.6%;  Score 31;  DB 4;  Length 311;
  Best Local Similarity   55.6%;  Pred. No. 3.6e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              :||||  :|
Db        246 LHQKRKRLF 254


RESULT 32
US-10-774-355A-1447
; Sequence 1447, Application US/10774355A
; Publication No. US20050043513A1
; GENERAL INFORMATION:
;  APPLICANT: Firestein, Stuart
;  APPLICANT:  Zhang, Xinmin
;  TITLE OF INVENTION: MOUSE OLFACTORY RECEPTOR GENE SUPERFAMILY
;  FILE REFERENCE: A34570-PCT-USA-A 070050.2520
;  CURRENT APPLICATION NUMBER: US/10/774,355A
;  CURRENT FILING DATE:  2004-02-06
;  PRIOR APPLICATION NUMBER: PCT/US02/25556
;  PRIOR FILING DATE: 2002-08-09
;  PRIOR APPLICATION NUMBER: 60/311,159
;  PRIOR FILING DATE: 2001-08-09
;  PRIOR APPLICATION NUMBER: 60/339,694
;  PRIOR FILING DATE: 2001-12-12
;  NUMBER OF SEQ ID NOS: 2596
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1447
;   LENGTH: 311
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-10-774-355A-1447

  Query Match             64.6%;  Score 31;  DB 5;  Length 311;
  Best Local Similarity   44.4%;  Pred. No. 3.6e+02;
  Matches    4;  Conservative    4;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              :|:|:| :|
Db         84 LHEKKTILF 92


RESULT 33
US-10-756-149-4791
; Sequence 4791, Application US/10756149
; Publication No. US20050181375A1
; GENERAL INFORMATION:
;  APPLICANT: Aziz, Natasha
;  APPLICANT:  Zlotnik, Albert
;  TITLE OF INVENTION: NOVEL METHODS OF DIAGNOSIS OF METASTATIC CANCER, COMPOSITIONS AND
;  TITLE OF INVENTION:  METHODS OF SCREENING FOR MODULATORS OF METASTATIC CANCER
;  FILE REFERENCE: file
;  CURRENT APPLICATION NUMBER: US/10/756,149
;  CURRENT FILING DATE:  2004-01-12
;  NUMBER OF SEQ ID NOS: 5818
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4791
;   LENGTH: 311
;   TYPE: PRT
;   ORGANISM: Homo Sapiens
US-10-756-149-4791

  Query Match             64.6%;  Score 31;  DB 5;  Length 311;
  Best Local Similarity   55.6%;  Pred. No. 3.6e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;
```

```
Qy          1 MHQKRTAMF 9
              :|||| :|
Db        246 LHQKRKRLF 254


RESULT 34
US-11-097-143-25047
; Sequence 25047, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
;  APPLICANT: Venter, J. Craig
;  APPLICANT:  et al.
;  TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
;  TITLE OF INVENTION:  ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
;  TITLE OF INVENTION:  DROSOPHILA GENES.
;  FILE REFERENCE: CL000728
;  CURRENT APPLICATION NUMBER: US/11/097,143
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: 60/157,832
;  PRIOR FILING DATE: 1999-10-05
;  PRIOR APPLICATION NUMBER: 60/160,191
;  PRIOR FILING DATE: 1999-10-19
;  PRIOR APPLICATION NUMBER: 60/161,932
;  PRIOR FILING DATE: 1999-10-28
;  PRIOR APPLICATION NUMBER: 60/164,769
;  PRIOR FILING DATE: 1999-11-12
;  PRIOR APPLICATION NUMBER: 60/173,383
;  PRIOR FILING DATE: 1999-12-28
;  PRIOR APPLICATION NUMBER: 60/175,693
;  PRIOR FILING DATE: 2000-01-12
;  PRIOR APPLICATION NUMBER: 60/184,831
;  PRIOR FILING DATE: 2000-02-24
;  PRIOR APPLICATION NUMBER: 60/191,637
;  PRIOR FILING DATE: 2000-03-23
;  NUMBER OF SEQ ID NOS: 43008
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 25047
;   LENGTH: 496
;   TYPE: PRT
;   ORGANISM: DROSOPHILA
US-11-097-143-25047

  Query Match             64.6%;  Score 31;  DB 6;  Length 496;
  Best Local Similarity   75.0%;  Pred. No. 5.7e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 HQKRTAMF 9
              | || |||
Db        186 HYKRRAMF 193


RESULT 35
US-10-450-763-32763
; Sequence 32763, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
;  APPLICANT: Hyseq, Inc
;  TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
;  FILE REFERENCE: 790CIP3/US
;  CURRENT APPLICATION NUMBER: US/10/450,763
;  CURRENT FILING DATE:  2003-06-11
;  PRIOR APPLICATION NUMBER: PCT/US01/08631
;  PRIOR FILING DATE: 2001-03-30
;  PRIOR APPLICATION NUMBER: 09/540,217
;  PRIOR FILING DATE: 2000-03-31
;  PRIOR APPLICATION NUMBER: 09/649,167
;  PRIOR FILING DATE: 2000-08-23
;  NUMBER OF SEQ ID NOS: 60736
;  SOFTWARE: Custom
; SEQ ID NO 32763
;   LENGTH: 944
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: DOMAIN
;   LOCATION: (142)..(190)
;   OTHER INFORMATION: Intermediate filaments proteins domain identified by eMATRIX,
;   OTHER INFORMATION: accession number BL00226B, p-value=5.560e-11, raw score of 23.86
;   FEATURE:
;   NAME/KEY: DOMAIN
;   LOCATION: (578)..(713)
;   OTHER INFORMATION: SAM domain (Sterile alpha motif) domain identified by PFam,
;   OTHER INFORMATION: accession name SAM, E-value=1.4e-10, PFam score of 48.6
US-10-450-763-32763

  Query Match             64.6%;  Score 31;  DB 5;  Length 944;
  Best Local Similarity   85.7%;  Pred. No. 1.1e+03;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HQKRTAM 8
              |||| ||
Db        813 HQKRDAM 819


RESULT 36
US-10-450-763-32761
; Sequence 32761, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
;  APPLICANT: Hyseq, Inc
;  TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
;  FILE REFERENCE: 790CIP3/US
;  CURRENT APPLICATION NUMBER: US/10/450,763
;  CURRENT FILING DATE:  2003-06-11
;  PRIOR APPLICATION NUMBER: PCT/US01/08631
;  PRIOR FILING DATE: 2001-03-30
;  PRIOR APPLICATION NUMBER: 09/540,217
;  PRIOR FILING DATE: 2000-03-31
;  PRIOR APPLICATION NUMBER: 09/649,167
;  PRIOR FILING DATE: 2000-08-23
;  NUMBER OF SEQ ID NOS: 60736
;  SOFTWARE: Custom
; SEQ ID NO 32761
;   LENGTH: 1089
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: DOMAIN
;   LOCATION: (400)..(448)
;   OTHER INFORMATION: Intermediate filaments proteins domain identified by eMATRIX,
;   OTHER INFORMATION: accession number BL00226B, p-value=5.560e-11, raw score of 23.86
;   FEATURE:
;   NAME/KEY: DOMAIN
;   LOCATION: (723)..(858)
;   OTHER INFORMATION: SAM domain (Sterile alpha motif) domain identified by PFam,
;   OTHER INFORMATION: accession name SAM, E-value=1.4e-10, PFam score of 48.6
US-10-450-763-32761

  Query Match             64.6%;  Score 31;  DB 5;  Length 1089;
  Best Local Similarity   85.7%;  Pred. No. 1.3e+03;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HQKRTAM 8
              |||| ||
Db        958 HQKRDAM 964


RESULT 37
US-10-287-226-304
; Sequence 304, Application US/10287226
; Publication No. US20040086875A1
; GENERAL INFORMATION:
;  APPLICANT: Agee, Michele L.,
;  APPLICANT:  Alsobrook, John P.,
;  APPLICANT:  Berghs, Constance,
```

```
;  APPLICANT:  Boldog, Ference,
;  APPLICANT:  Burgess, Catherine E.,
;  APPLICANT:  Chant, John S.,
;  APPLICANT:  Chaudhuri, Amitabha,
;  APPLICANT:  DiPippo, Vincent A.,
;  APPLICANT:  Edinger, Shlomit R.,
;  APPLICANT:  Eisen, Andrew,
;  APPLICANT:  Ellerman, Karen,
;  APPLICANT:  Gangolli, Esha A.,
;  APPLICANT:  Gorman, Linda,
;  APPLICANT:  Gerlach, Valerie,
;  APPLICANT:  Ji, Weizhen,
;  APPLICANT:  Kekuda, Ramesh,
;  APPLICANT:  Khramtsov, Nikolai,
;  APPLICANT:  Li, Li,
;  APPLICANT:  Malyankar, Uriel M.,
;  APPLICANT:  MacDougall, John R.,
;  APPLICANT:  Mezes, Peter S.
;  APPLICANT:  Miller, Charles E.,
;  APPLICANT:  Millet, Isabelle,
;  APPLICANT:  Ooi, Chean Eng,
;  APPLICANT:  Ort, Tatiana,
;  APPLICANT:  Padigaru, Muralidhara,
;  APPLICANT:  Patturajan, Meera,
;  APPLICANT:  Rastelli, Luca,
;  APPLICANT:  Rieger, Daniel K.,
;  APPLICANT:  Rothenberg, Mark E.,
;  APPLICANT:  Shenoy, Suresh G.,
;  APPLICANT:  Spaderna, Steven K.,
;  APPLICANT:  Spytek, Kimberley A.,
;  APPLICANT:  Taupier, Jr., Raymond J.,
;  APPLICANT:  Vernet, Corine A.M.,
;  APPLICANT:  Zerhusen, Bryan D.,
;  APPLICANT:  Zhong, Mei
;  TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
;  FILE REFERENCE: 21402-480C
;  CURRENT APPLICATION NUMBER: US/10/287,226
;  CURRENT FILING DATE:  2002-11-04
;  PRIOR APPLICATION NUMBER: 60/334,421
;  PRIOR FILING DATE: 2001-11-30
;  PRIOR APPLICATION NUMBER: 60/354,392
;  PRIOR FILING DATE: 2002-02-04
;  PRIOR APPLICATION NUMBER: 60/360,148
;  PRIOR FILING DATE: 2002-02-27
;  PRIOR APPLICATION NUMBER: 60/364,000
;  PRIOR FILING DATE: 2002-03-13
;  PRIOR APPLICATION NUMBER: 60/404,821
;  PRIOR FILING DATE: 2002-08-20
;  PRIOR APPLICATION NUMBER: 60/334,526
;  PRIOR FILING DATE: 2001-11-30
;  PRIOR APPLICATION NUMBER: 60/354,409
;  PRIOR FILING DATE: 2002-02-04
;  PRIOR APPLICATION NUMBER: 60/364,227
;  PRIOR FILING DATE: 2002-03-13
;  PRIOR APPLICATION NUMBER: 60/334,027
;  PRIOR FILING DATE: 2001-11-28
;  PRIOR APPLICATION NUMBER: 60/331,641
;  PRIOR FILING DATE: 2001-11-20
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 673
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 304
;   LENGTH: 4455
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-287-226-304

  Query Match             64.6%;  Score 31;  DB 4;  Length 4455;
  Best Local Similarity   66.7%;  Pred. No. 5.1e+03;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              :||| || |
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Db       2628 LHQKITATF 2636


RESULT 38
US-10-424-599-241203
; Sequence 241203, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 241203
;   LENGTH: 33
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_59834C.1.pep
US-10-424-599-241203

  Query Match             62.5%;  Score 30;  DB 4;  Length 33;
  Best Local Similarity   55.6%;  Pred. No. 62;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              |||: | :|
Db         22 MHQQTTMLF 30


RESULT 39
US-10-425-115-307508
; Sequence 307508, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 307508
;   LENGTH: 58
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_43517C.1.pep
US-10-425-115-307508

  Query Match             62.5%;  Score 30;  DB 4;  Length 58;
  Best Local Similarity   62.5%;  Pred. No. 1.1e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 HQKRTAMF 9
              |:||  ||
Db         22 HEKRNKMF 29


RESULT 40
US-10-424-599-262525
; Sequence 262525, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
```

; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 262525
; LENGTH: 62
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_79082C.1.pep
US-10-424-599-262525

Query Match 62.5%; Score 30; DB 4; Length 62;
Best Local Similarity 83.3%; Pred. No. 1.2e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MHQKRT 6
||| :||
Db 48 MHQRRT 53

RESULT 41
US-10-424-599-250945
; Sequence 250945, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 250945
; LENGTH: 72
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_68632C.1.pep
US-10-424-599-250945

Query Match 62.5%; Score 30; DB 4; Length 72;
Best Local Similarity 55.6%; Pred. No. 1.4e+02;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 MHQKRTAMF 9
:||| | |
Db 29 LHQKETGSF 37

RESULT 42
US-10-767-701-42125
; Sequence 42125, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 42125
; LENGTH: 73
; TYPE: PRT
; ORGANISM: Sorghum bicolor
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3481-006-Q6-K1-F2.pep
US-10-767-701-42125

Query Match 62.5%; Score 30; DB 4; Length 73;
Best Local Similarity 85.7%; Pred. No. 1.4e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 QKRTAMF 9
|| ||||
Db 43 QKNTAMF 49

RESULT 43
US-10-425-115-238277
; Sequence 238277, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 238277
; LENGTH: 75
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_14889C.1.pep
US-10-425-115-238277

Query Match 62.5%; Score 30; DB 4; Length 75;
Best Local Similarity 85.7%; Pred. No. 1.4e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 HQKRTAM 8
|| ||||
Db 22 HQYRTAM 28

RESULT 44
US-10-424-599-255598
; Sequence 255598, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 255598
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_72826C.1.pep
US-10-424-599-255598

Query Match 62.5%; Score 30; DB 4; Length 80;
Best Local Similarity 55.6%; Pred. No. 1.5e+02;

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  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              ||: |:| |
Db         24 MHEPRSAFF 32


RESULT 45
US-10-363-616-348
; Sequence 348, Application US/10363616
; Publication No. US20040044181A1
; GENERAL INFORMATION:
;  APPLICANT: Hyseq, Inc
;  TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
;  FILE REFERENCE: 21272-113 (793)
;  CURRENT APPLICATION NUMBER: US/10/363,616
;  CURRENT FILING DATE:  2003-03-03
;  PRIOR APPLICATION NUMBER: 09/654,935
;  PRIOR FILING DATE: 2000-09-01
;  NUMBER OF SEQ ID NOS: 490
; SEQ ID NO 348
;   LENGTH: 80
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-363-616-348

  Query Match             62.5%;  Score 30;  DB 4;  Length 80;
  Best Local Similarity   75.0%;  Pred. No. 1.5e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 HQKRTAMF 9
              |||||  |
Db         26 HQKRTPDF 33


RESULT 46
US-10-408-765A-400
; Sequence 400, Application US/10408765A
; Publication No. US20040101874A1
; GENERAL INFORMATION:
;  APPLICANT: Ghosh, Soumitra S.
;  APPLICANT:  Fahy, Eoin D.
;  APPLICANT:  Zhang, Bing
;  APPLICANT:  Gibson, Bradford W.
;  APPLICANT:  Taylor, Steven W.
;  APPLICANT:  Glenn, Gary M.
;  APPLICANT:  Warnock, Dale E.
;  TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
;  TITLE OF INVENTION:  IDENTIFIED IN THE MITOCHONDRIAL PROTEOME
;  FILE REFERENCE: 660088.465
;  CURRENT APPLICATION NUMBER: US/10/408,765A
;  CURRENT FILING DATE:  2003-04-04
;  NUMBER OF SEQ ID NOS: 3077
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 400
;   LENGTH: 80
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-408-765A-400

  Query Match             62.5%;  Score 30;  DB 4;  Length 80;
  Best Local Similarity   75.0%;  Pred. No. 1.5e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 HQKRTAMF 9
              |||||  |
Db         26 HQKRTPDF 33


RESULT 47
US-10-425-115-205781
; Sequence 205781, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 205781
;   LENGTH: 81
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_119256C.1.pep
US-10-425-115-205781

  Query Match             62.5%;  Score 30;  DB 4;  Length 81;
  Best Local Similarity   55.6%;  Pred. No. 1.5e+02;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              :||::|| |
Db         37 VHQRQTAPF 45


RESULT 48
US-10-083-357-905
; Sequence 905, Application US/10083357
; Publication No. US20030054370A1
; GENERAL INFORMATION:
;  APPLICANT: Qiandong Zeng et al.
;  TITLE OF INVENTION: Systemic Discovery of New Genes
;  FILE REFERENCE: 032796-090
;  CURRENT APPLICATION NUMBER: US/10/083,357
;  CURRENT FILING DATE:  2002-02-27
;  NUMBER OF SEQ ID NOS: 1346
; SEQ ID NO 905
;   LENGTH: 87
;   TYPE: PRT
;   ORGANISM: Saccharomyces cerevisiae
US-10-083-357-905

  Query Match             62.5%;  Score 30;  DB 4;  Length 87;
  Best Local Similarity   75.0%;  Pred. No. 1.6e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 HQKRTAMF 9
              | |||| |
Db         71 HLKRTACF 78


RESULT 49
US-10-156-761-12705
; Sequence 12705, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
;  APPLICANT: OMURA, SATOSHI
;  APPLICANT:  IKEDA, HARUO
;  APPLICANT:  ISHIKAWA, JUN
;  APPLICANT:  HORIKAWA, HIROSHI
;  APPLICANT:  SHIBA, TADAYOSHI
;  APPLICANT:  SAKAKI, YOSHIYUKI
;  APPLICANT:  HATTORI, MASAHIRA
;  TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
;  FILE REFERENCE: 249-262
;  CURRENT APPLICATION NUMBER: US/10/156,761
;  CURRENT FILING DATE:  2002-05-29
;  PRIOR APPLICATION NUMBER: JP 2001-204089
;  PRIOR FILING DATE: 2001-05-30
;  PRIOR APPLICATION NUMBER: JP 2001-272697
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;  PRIOR FILING DATE: 2001-08-02
;  NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 12705
;   LENGTH: 138
;   TYPE: PRT
;   ORGANISM: Streptomyces avermitilis
US-10-156-761-12705

  Query Match             62.5%;  Score 30;  DB 4;  Length 138;
  Best Local Similarity   62.5%;  Pred. No. 2.6e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HQKRTAMF 9
              |::||| |
Db         13 HRRRTAAF 20


RESULT 50
US-10-767-701-52503
; Sequence 52503, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
;  APPLICANT: Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof For Plant Improvement
;  FILE REFERENCE: 38-21(53535)B
;  CURRENT APPLICATION NUMBER: US/10/767,701
;  CURRENT FILING DATE:  2004-01-29
;  NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 52503
;   LENGTH: 145
;   TYPE: PRT
;   ORGANISM: Sorghum bicolor
;   FEATURE:
;   OTHER INFORMATION: Clone ID: 12501591.pep
US-10-767-701-52503

  Query Match             62.5%;  Score 30;  DB 4;  Length 145;
  Best Local Similarity   55.6%;  Pred. No. 2.7e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              ||:| : ||
Db         22 MHEKASPMF 30


Search completed: May  5, 2006, 08:39:17
Job time : 62 secs
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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:29:56 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-65
Perfect score: 48
Sequence: 1 MHQKRTAMF 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_New:*
1: /SIDS5/ptodata/1/pubpaa/US08_NEW_PUB.pep1:*
2: /SIDS5/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
3: /SIDS5/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
4: /SIDS5/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
5: /SIDS5/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
6: /SIDS5/ptodata/1/pubpaa/US09_NEW_PUB.pep:*
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9: /SIDS5/ptodata/1/pubpaa/US10_NEW_PUB.pep1:*
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12: /SIDS5/ptodata/1/pubpaa/US60_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
|---|---|---|---|---|---|---|
| 1 | 48 | 100.0 | 158 | 11 | US-11-206-138-3 | Sequence 3, Appli |
| 2 | 48 | 100.0 | 256 | 11 | US-11-192-923A-2 | Sequence 2, Appli |
| 3 | 32 | 66.7 | 361 | 11 | US-11-096-568A-7375 | Sequence 7375, Ap |
| 4 | 32 | 66.7 | 362 | 11 | US-11-096-568A-7374 | Sequence 7374, Ap |
| 5 | 32 | 66.7 | 363 | 11 | US-11-096-568A-7373 | Sequence 7373, Ap |
| 6 | 31 | 64.6 | 424 | 9 | US-10-467-657-2678 | Sequence 2678, Ap |
| 7 | 30 | 62.5 | 215 | 9 | US-10-467-657-6954 | Sequence 6954, Ap |
| 8 | 30 | 62.5 | 280 | 11 | US-11-079-463-6326 | Sequence 6326, Ap |
| 9 | 30 | 62.5 | 328 | 11 | US-11-188-298-8493 | Sequence 8493, Ap |
| 10 | 30 | 62.5 | 900 | 11 | US-11-087-099-11215 | Sequence 11215, A |
| 11 | 29 | 60.4 | 238 | 8 | US-10-505-928-559 | Sequence 559, App |
| 12 | 29 | 60.4 | 238 | 9 | US-10-995-561-951 | Sequence 951, App |
| 13 | 29 | 60.4 | 260 | 9 | US-10-821-234-919 | Sequence 919, App |
| 14 | 29 | 60.4 | 275 | 9 | US-10-995-561-950 | Sequence 950, App |
| 15 | 29 | 60.4 | 374 | 11 | US-11-054-281-68 | Sequence 68, Appl |
| 16 | 29 | 60.4 | 394 | 11 | US-11-054-281-66 | Sequence 66, Appl |
| 17 | 29 | 60.4 | 394 | 11 | US-11-054-281-67 | Sequence 67, Appl |
| 18 | 29 | 60.4 | 418 | 11 | US-11-098-686-10684 | Sequence 10684, A |
| 19 | 29 | 60.4 | 426 | 11 | US-11-087-099-5899 | Sequence 5899, Ap |
| 20 | 29 | 60.4 | 441 | 11 | US-11-188-298-6127 | Sequence 6127, Ap |
| 21 | 29 | 60.4 | 459 | 9 | US-10-644-807-216 | Sequence 216, App |
| 22 | 29 | 60.4 | 505 | 11 | US-11-072-512-2553 | Sequence 2553, Ap |
| 23 | 29 | 60.4 | 544 | 11 | US-11-165-226-126 | Sequence 126, App |
| 24 | 29 | 60.4 | 561 | 11 | US-11-188-298-17857 | Sequence 17857, A |
| 25 | 29 | 60.4 | 564 | 11 | US-11-188-298-16403 | Sequence 16403, A |
| 26 | 29 | 60.4 | 680 | 9 | US-10-467-657-2008 | Sequence 2008, Ap |
| 27 | 29 | 60.4 | 993 | 9 | US-10-055-877-6 | Sequence 6, Appli |
| 28 | 29 | 60.4 | 2048 | 11 | US-11-285-818-12 | Sequence 12, Appl |
| 29 | 29 | 60.4 | 2057 | 11 | US-11-285-818-10 | Sequence 10, Appl |
| 30 | 29 | 60.4 | 2058 | 11 | US-11-072-175-188 | Sequence 188, App |
| 31 | 29 | 60.4 | 2058 | 11 | US-11-285-818-17 | Sequence 17, Appl |
| 32 | 28 | 58.3 | 79 | 9 | US-10-467-657-8708 | Sequence 8708, Ap |
| 33 | 28 | 58.3 | 233 | 11 | US-11-096-568A-4639 | Sequence 4639, Ap |
| 34 | 28 | 58.3 | 235 | 9 | US-10-512-512-15 | Sequence 15, Appl |
| 35 | 28 | 58.3 | 324 | 11 | US-11-096-568A-11088 | Sequence 11088, A |
| 36 | 28 | 58.3 | 330 | 11 | US-11-096-568A-4638 | Sequence 4638, Ap |
| 37 | 28 | 58.3 | 342 | 11 | US-11-096-568A-4637 | Sequence 4637, Ap |
| 38 | 28 | 58.3 | 344 | 11 | US-11-055-822-516 | Sequence 516, App |
| 39 | 28 | 58.3 | 348 | 9 | US-10-330-773-921 | Sequence 921, App |
| 40 | 28 | 58.3 | 349 | 11 | US-11-028-922A-2 | Sequence 2, Appli |
| 41 | 28 | 58.3 | 352 | 8 | US-10-505-928-745 | Sequence 745, App |
| 42 | 28 | 58.3 | 352 | 8 | US-10-511-937-2486 | Sequence 2486, Ap |
| 43 | 28 | 58.3 | 352 | 8 | US-10-511-937-2935 | Sequence 2935, Ap |
| 44 | 28 | 58.3 | 352 | 8 | US-10-511-937-3010 | Sequence 3010, Ap |
| 45 | 28 | 58.3 | 352 | 11 | US-11-028-922A-1 | Sequence 1, Appli |
| 46 | 28 | 58.3 | 355 | 9 | US-10-330-773-918 | Sequence 918, App |
| 47 | 28 | 58.3 | 365 | 11 | US-11-096-568A-11087 | Sequence 11087, A |
| 48 | 28 | 58.3 | 390 | 11 | US-11-087-099-2856 | Sequence 2856, Ap |
| 49 | 28 | 58.3 | 428 | 9 | US-10-131-826A-330 | Sequence 330, App |
| 50 | 28 | 58.3 | 428 | 9 | US-10-973-115B-330 | Sequence 330, App |
| 51 | 28 | 58.3 | 428 | 9 | US-10-218-784-102 | Sequence 102, App |
| 52 | 28 | 58.3 | 428 | 9 | US-10-219-061-102 | Sequence 102, App |
| 53 | 28 | 58.3 | 428 | 9 | US-10-219-062-102 | Sequence 102, App |
| 54 | 28 | 58.3 | 428 | 9 | US-10-219-064-102 | Sequence 102, App |
| 55 | 28 | 58.3 | 428 | 9 | US-10-233-134-102 | Sequence 102, App |
| 56 | 28 | 58.3 | 428 | 9 | US-10-137-873A-330 | Sequence 330, App |
| 57 | 28 | 58.3 | 428 | 9 | US-10-152-370-330 | Sequence 330, App |
| 58 | 28 | 58.3 | 428 | 11 | US-11-290-153-330 | Sequence 330, App |
| 59 | 28 | 58.3 | 428 | 11 | US-11-057-268-2 | Sequence 2, Appli |
| 60 | 28 | 58.3 | 432 | 11 | US-11-096-568A-19377 | Sequence 19377, A |
| 61 | 28 | 58.3 | 447 | 11 | US-11-079-463-8913 | Sequence 8913, Ap |
| 62 | 28 | 58.3 | 481 | 11 | US-11-096-568A-19376 | Sequence 19376, A |
| 63 | 28 | 58.3 | 505 | 11 | US-11-057-012-54 | Sequence 54, Appl |
| 64 | 28 | 58.3 | 574 | 11 | US-11-096-568A-19375 | Sequence 19375, A |
| 65 | 27 | 56.2 | 8 | 9 | US-10-914-842A-26 | Sequence 26, Appl |
| 66 | 27 | 56.2 | 121 | 11 | US-11-096-568A-21028 | Sequence 21028, A |
| 67 | 27 | 56.2 | 130 | 11 | US-11-096-568A-20611 | Sequence 20611, A |
| 68 | 27 | 56.2 | 135 | 11 | US-11-096-568A-14204 | Sequence 14204, A |
| 69 | 27 | 56.2 | 155 | 11 | US-11-096-568A-7186 | Sequence 7186, Ap |
| 70 | 27 | 56.2 | 157 | 9 | US-10-467-657-3104 | Sequence 3104, Ap |
| 71 | 27 | 56.2 | 206 | 11 | US-11-182-016-53 | Sequence 53, Appl |
| 72 | 27 | 56.2 | 240 | 11 | US-11-087-099-5167 | Sequence 5167, Ap |
| 73 | 27 | 56.2 | 241 | 11 | US-11-096-568A-7185 | Sequence 7185, Ap |
| 74 | 27 | 56.2 | 251 | 9 | US-10-194-487-476 | Sequence 476, App |
| 75 | 27 | 56.2 | 251 | 9 | US-10-195-883-476 | Sequence 476, App |
| 76 | 27 | 56.2 | 251 | 9 | US-10-195-888-476 | Sequence 476, App |
| 77 | 27 | 56.2 | 251 | 9 | US-10-195-889-476 | Sequence 476, App |
| 78 | 27 | 56.2 | 251 | 9 | US-10-226-486-50 | Sequence 50, Appl |
| 79 | 27 | 56.2 | 252 | 11 | US-11-056-408-6 | Sequence 6, Appli |
| 80 | 27 | 56.2 | 252 | 11 | US-11-096-568A-7184 | Sequence 7184, Ap |
| 81 | 27 | 56.2 | 256 | 11 | US-11-056-408-2 | Sequence 2, Appli |
| 82 | 27 | 56.2 | 265 | 11 | US-11-188-298-9289 | Sequence 9289, Ap |
| 83 | 27 | 56.2 | 296 | 11 | US-11-188-298-20788 | Sequence 20788, A |
| 84 | 27 | 56.2 | 300 | 11 | US-11-188-298-5195 | Sequence 5195, Ap |
| 85 | 27 | 56.2 | 300 | 11 | US-11-188-298-10963 | Sequence 10963, A |
| 86 | 27 | 56.2 | 311 | 11 | US-11-156-084-276 | Sequence 276, App |
| 87 | 27 | 56.2 | 312 | 11 | US-11-072-512-2478 | Sequence 2478, Ap |
| 88 | 27 | 56.2 | 312 | 11 | US-11-123-241-20 | Sequence 20, Appl |
| 89 | 27 | 56.2 | 348 | 11 | US-11-024-959-338 | Sequence 338, App |
| 90 | 27 | 56.2 | 379 | 11 | US-11-188-298-9205 | Sequence 9205, Ap |
| 91 | 27 | 56.2 | 395 | 11 | US-11-087-099-7349 | Sequence 7349, Ap |
| 92 | 27 | 56.2 | 400 | 11 | US-11-096-568A-723 | Sequence 723, App |
| 93 | 27 | 56.2 | 403 | 11 | US-11-188-298-5107 | Sequence 5107, Ap |
| 94 | 27 | 56.2 | 498 | 11 | US-11-188-298-14596 | Sequence 14596, A |

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| 95 | 27 | 56.2 | 514 | 11 | US-11-072-512-2735 | Sequence 2735, Ap |
| 96 | 27 | 56.2 | 522 | 11 | US-11-079-463-7565 | Sequence 7565, Ap |
| 97 | 27 | 56.2 | 525 | 11 | US-11-188-298-3842 | Sequence 3842, Ap |
| 98 | 27 | 56.2 | 528 | 11 | US-11-096-568A-14618 | Sequence 14618, A |
| 99 | 27 | 56.2 | 558 | 9 | US-10-510-903-22 | Sequence 22, Appl |
| 100 | 27 | 56.2 | 590 | 11 | US-11-096-568A-14617 | Sequence 14617, A |
| 101 | 27 | 56.2 | 602 | 11 | US-11-096-568A-14616 | Sequence 14616, A |
| 102 | 27 | 56.2 | 604 | 11 | US-11-072-512-3464 | Sequence 3464, Ap |
| 103 | 27 | 56.2 | 619 | 11 | US-11-210-471-10 | Sequence 10, Appl |
| 104 | 27 | 56.2 | 733 | 8 | US-10-505-928-349 | Sequence 349, App |
| 105 | 27 | 56.2 | 861 | 11 | US-11-079-463-9522 | Sequence 9522, Ap |
| 106 | 27 | 56.2 | 928 | 9 | US-10-841-129-6 | Sequence 6, Appli |
| 107 | 27 | 56.2 | 1059 | 11 | US-11-231-599-10 | Sequence 10, Appl |
| 108 | 27 | 56.2 | 1516 | 9 | US-10-501-035-284 | Sequence 284, App |
| 109 | 27 | 56.2 | 1628 | 11 | US-11-231-599-8 | Sequence 8, Appli |
| 110 | 27 | 56.2 | 3580 | 9 | US-10-510-941-14 | Sequence 14, Appl |
| 111 | 27 | 56.2 | 5738 | 8 | US-10-505-928-150 | Sequence 150, App |
| 112 | 26 | 54.2 | 9 | 11 | US-11-136-079-183 | Sequence 183, App |
| 113 | 26 | 54.2 | 12 | 11 | US-11-032-773-923 | Sequence 923, App |
| 114 | 26 | 54.2 | 15 | 11 | US-11-004-399-2992 | Sequence 2992, Ap |
| 115 | 26 | 54.2 | 20 | 11 | US-11-139-041-384 | Sequence 384, App |
| 116 | 26 | 54.2 | 20 | 11 | US-11-139-041-385 | Sequence 385, App |
| 117 | 26 | 54.2 | 20 | 11 | US-11-139-041-386 | Sequence 386, App |
| 118 | 26 | 54.2 | 30 | 11 | US-11-139-041-349 | Sequence 349, App |
| 119 | 26 | 54.2 | 61 | 11 | US-11-264-096-745 | Sequence 745, App |
| 120 | 26 | 54.2 | 61 | 11 | US-11-264-096-746 | Sequence 746, App |
| 121 | 26 | 54.2 | 68 | 9 | US-10-467-657-6272 | Sequence 6272, Ap |
| 122 | 26 | 54.2 | 74 | 9 | US-10-644-807-296 | Sequence 296, App |
| 123 | 26 | 54.2 | 76 | 11 | US-11-096-568A-3653 | Sequence 3653, Ap |
| 124 | 26 | 54.2 | 84 | 9 | US-10-467-657-500 | Sequence 500, App |
| 125 | 26 | 54.2 | 102 | 11 | US-11-096-568A-3652 | Sequence 3652, Ap |
| 126 | 26 | 54.2 | 129 | 11 | US-11-096-568A-3651 | Sequence 3651, Ap |
| 127 | 26 | 54.2 | 133 | 11 | US-11-079-463-6062 | Sequence 6062, Ap |
| 128 | 26 | 54.2 | 147 | 11 | US-11-079-463-8086 | Sequence 8086, Ap |
| 129 | 26 | 54.2 | 148 | 11 | US-11-234-786-377 | Sequence 377, App |
| 130 | 26 | 54.2 | 148 | 11 | US-11-139-041-300 | Sequence 300, App |
| 131 | 26 | 54.2 | 180 | 11 | US-11-096-568A-24496 | Sequence 24496, A |
| 132 | 26 | 54.2 | 208 | 11 | US-11-087-099-5674 | Sequence 5674, Ap |
| 133 | 26 | 54.2 | 224 | 11 | US-11-079-463-10348 | Sequence 10348, A |
| 134 | 26 | 54.2 | 226 | 11 | US-11-188-298-16405 | Sequence 16405, A |
| 135 | 26 | 54.2 | 228 | 11 | US-11-188-298-2498 | Sequence 2498, Ap |
| 136 | 26 | 54.2 | 229 | 11 | US-11-098-686-10190 | Sequence 10190, A |
| 137 | 26 | 54.2 | 239 | 11 | US-11-087-099-6483 | Sequence 6483, Ap |
| 138 | 26 | 54.2 | 239 | 11 | US-11-188-298-12940 | Sequence 12940, A |
| 139 | 26 | 54.2 | 242 | 11 | US-11-150-883-12 | Sequence 12, Appl |
| 140 | 26 | 54.2 | 279 | 11 | US-11-096-568A-8112 | Sequence 8112, Ap |
| 141 | 26 | 54.2 | 283 | 11 | US-11-096-568A-8111 | Sequence 8111, Ap |
| 142 | 26 | 54.2 | 292 | 11 | US-11-234-786-532 | Sequence 532, App |
| 143 | 26 | 54.2 | 292 | 11 | US-11-139-041-315 | Sequence 315, App |
| 144 | 26 | 54.2 | 292 | 11 | US-11-139-041-345 | Sequence 345, App |
| 145 | 26 | 54.2 | 292 | 11 | US-11-139-041-346 | Sequence 346, App |
| 146 | 26 | 54.2 | 298 | 11 | US-11-096-568A-8110 | Sequence 8110, Ap |
| 147 | 26 | 54.2 | 300 | 11 | US-11-045-004-1382 | Sequence 1382, Ap |
| 148 | 26 | 54.2 | 311 | 11 | US-11-139-041-347 | Sequence 347, App |
| 149 | 26 | 54.2 | 313 | 11 | US-11-139-041-348 | Sequence 348, App |
| 150 | 26 | 54.2 | 314 | 11 | US-11-096-568A-5127 | Sequence 5127, Ap |
| 151 | 26 | 54.2 | 329 | 9 | US-10-510-386-36 | Sequence 36, Appl |
| 152 | 26 | 54.2 | 329 | 11 | US-11-234-786-376 | Sequence 376, App |
| 153 | 26 | 54.2 | 329 | 11 | US-11-087-099-4422 | Sequence 4422, Ap |
| 154 | 26 | 54.2 | 329 | 11 | US-11-139-041-299 | Sequence 299, App |
| 155 | 26 | 54.2 | 330 | 9 | US-10-510-386-196 | Sequence 196, App |
| 156 | 26 | 54.2 | 336 | 11 | US-11-079-463-5860 | Sequence 5860, Ap |
| 157 | 26 | 54.2 | 340 | 11 | US-11-045-004-1640 | Sequence 1640, Ap |
| 158 | 26 | 54.2 | 344 | 11 | US-11-096-568A-5126 | Sequence 5126, Ap |
| 159 | 26 | 54.2 | 345 | 9 | US-10-467-657-252 | Sequence 252, App |
| 160 | 26 | 54.2 | 345 | 9 | US-10-467-657-3086 | Sequence 3086, Ap |
| 161 | 26 | 54.2 | 349 | 11 | US-11-096-568A-8968 | Sequence 8968, Ap |
| 162 | 26 | 54.2 | 352 | 11 | US-11-096-568A-5125 | Sequence 5125, Ap |
| 163 | 26 | 54.2 | 360 | 11 | US-11-072-512-3743 | Sequence 3743, Ap |
| 164 | 26 | 54.2 | 371 | 11 | US-11-096-568A-8967 | Sequence 8967, Ap |
| 165 | 26 | 54.2 | 371 | 11 | US-11-096-568A-8969 | Sequence 8969, Ap |
| 166 | 26 | 54.2 | 383 | 9 | US-10-513-759-4 | Sequence 4, Appli |
| 167 | 26 | 54.2 | 383 | 11 | US-11-129-143-76 | Sequence 76, Appl |
| 168 | 26 | 54.2 | 384 | 11 | US-11-139-041-304 | Sequence 304, App |
| 169 | 26 | 54.2 | 384 | 11 | US-11-139-041-333 | Sequence 333, App |
| 170 | 26 | 54.2 | 384 | 11 | US-11-139-041-334 | Sequence 334, App |
| 171 | 26 | 54.2 | 384 | 11 | US-11-139-041-340 | Sequence 340, App |
| 172 | 26 | 54.2 | 394 | 11 | US-11-139-041-336 | Sequence 336, App |
| 173 | 26 | 54.2 | 397 | 11 | US-11-096-568A-8966 | Sequence 8966, Ap |
| 174 | 26 | 54.2 | 399 | 11 | US-11-226-869-570 | Sequence 570, App |
| 175 | 26 | 54.2 | 399 | 11 | US-11-226-869-572 | Sequence 572, App |
| 176 | 26 | 54.2 | 402 | 11 | US-11-000-463-449 | Sequence 449, App |
| 177 | 26 | 54.2 | 410 | 11 | US-11-096-568A-12704 | Sequence 12704, A |
| 178 | 26 | 54.2 | 428 | 11 | US-11-000-463-448 | Sequence 448, App |
| 179 | 26 | 54.2 | 447 | 11 | US-11-124-368A-185 | Sequence 185, App |
| 180 | 26 | 54.2 | 449 | 11 | US-11-072-512-2749 | Sequence 2749, Ap |
| 181 | 26 | 54.2 | 450 | 11 | US-11-013-592-18 | Sequence 18, Appl |
| 182 | 26 | 54.2 | 456 | 9 | US-10-966-483-34 | Sequence 34, Appl |
| 183 | 26 | 54.2 | 456 | 11 | US-11-021-441-18 | Sequence 18, Appl |
| 184 | 26 | 54.2 | 467 | 11 | US-11-188-298-16761 | Sequence 16761, A |
| 185 | 26 | 54.2 | 468 | 11 | US-11-188-298-371 | Sequence 371, App |
| 186 | 26 | 54.2 | 468 | 11 | US-11-188-298-6190 | Sequence 6190, Ap |
| 187 | 26 | 54.2 | 468 | 11 | US-11-188-298-12050 | Sequence 12050, A |
| 188 | 26 | 54.2 | 468 | 11 | US-11-188-298-12494 | Sequence 12494, A |
| 189 | 26 | 54.2 | 469 | 11 | US-11-188-298-11810 | Sequence 11810, A |
| 190 | 26 | 54.2 | 470 | 11 | US-11-096-568A-12906 | Sequence 12906, A |
| 191 | 26 | 54.2 | 471 | 11 | US-11-024-959-277 | Sequence 277, App |
| 192 | 26 | 54.2 | 473 | 11 | US-11-079-463-7847 | Sequence 7847, Ap |
| 193 | 26 | 54.2 | 479 | 9 | US-10-966-483-36 | Sequence 36, Appl |
| 194 | 26 | 54.2 | 479 | 11 | US-11-021-441-20 | Sequence 20, Appl |
| 195 | 26 | 54.2 | 490 | 9 | US-10-966-483-42 | Sequence 42, Appl |
| 196 | 26 | 54.2 | 490 | 11 | US-11-021-441-26 | Sequence 26, Appl |
| 197 | 26 | 54.2 | 490 | 11 | US-11-264-096-1683 | Sequence 1683, Ap |
| 198 | 26 | 54.2 | 492 | 11 | US-11-013-592-38 | Sequence 38, Appl |
| 199 | 26 | 54.2 | 497 | 9 | US-10-966-483-38 | Sequence 38, Appl |
| 200 | 26 | 54.2 | 497 | 9 | US-10-966-483-40 | Sequence 40, Appl |
| 201 | 26 | 54.2 | 497 | 11 | US-11-021-441-22 | Sequence 22, Appl |
| 202 | 26 | 54.2 | 497 | 11 | US-11-021-441-24 | Sequence 24, Appl |
| 203 | 26 | 54.2 | 503 | 11 | US-11-188-298-14816 | Sequence 14816, A |
| 204 | 26 | 54.2 | 522 | 11 | US-11-188-298-889 | Sequence 889, App |
| 205 | 26 | 54.2 | 529 | 11 | US-11-139-041-324 | Sequence 324, App |
| 206 | 26 | 54.2 | 533 | 11 | US-11-096-568A-421 | Sequence 421, App |
| 207 | 26 | 54.2 | 537 | 11 | US-11-096-568A-12703 | Sequence 12703, A |
| 208 | 26 | 54.2 | 542 | 11 | US-11-096-568A-12905 | Sequence 12905, A |
| 209 | 26 | 54.2 | 554 | 11 | US-11-000-463-240 | Sequence 240, App |
| 210 | 26 | 54.2 | 555 | 11 | US-11-096-568A-420 | Sequence 420, App |
| 211 | 26 | 54.2 | 561 | 11 | US-11-096-568A-12904 | Sequence 12904, A |
| 212 | 26 | 54.2 | 569 | 11 | US-11-188-298-1682 | Sequence 1682, Ap |
| 213 | 26 | 54.2 | 574 | 9 | US-10-784-004-695 | Sequence 695, App |
| 214 | 26 | 54.2 | 574 | 9 | US-10-784-004-1076 | Sequence 1076, Ap |
| 215 | 26 | 54.2 | 574 | 11 | US-11-108-172-1107 | Sequence 1107, Ap |
| 216 | 26 | 54.2 | 582 | 11 | US-11-188-298-17940 | Sequence 17940, A |
| 217 | 26 | 54.2 | 591 | 11 | US-11-096-568A-12702 | Sequence 12702, A |
| 218 | 26 | 54.2 | 599 | 11 | US-11-096-568A-419 | Sequence 419, App |
| 219 | 26 | 54.2 | 605 | 11 | US-11-188-298-18870 | Sequence 18870, A |
| 220 | 26 | 54.2 | 606 | 11 | US-11-079-463-9950 | Sequence 9950, Ap |
| 221 | 26 | 54.2 | 613 | 11 | US-11-087-099-9717 | Sequence 9717, Ap |
| 222 | 26 | 54.2 | 624 | 9 | US-10-467-657-338 | Sequence 338, App |
| 223 | 26 | 54.2 | 651 | 11 | US-11-124-368A-184 | Sequence 184, App |
| 224 | 26 | 54.2 | 656 | 11 | US-11-234-786-379 | Sequence 379, App |
| 225 | 26 | 54.2 | 656 | 11 | US-11-139-041-305 | Sequence 305, App |
| 226 | 26 | 54.2 | 671 | 11 | US-11-150-883-6 | Sequence 6, Appli |
| 227 | 26 | 54.2 | 671 | 11 | US-11-150-887-6 | Sequence 6, Appli |
| 228 | 26 | 54.2 | 671 | 11 | US-11-234-786-380 | Sequence 380, App |
| 229 | 26 | 54.2 | 671 | 11 | US-11-139-041-306 | Sequence 306, App |
| 230 | 26 | 54.2 | 686 | 11 | US-11-150-883-5 | Sequence 5, Appli |
| 231 | 26 | 54.2 | 686 | 11 | US-11-150-887-5 | Sequence 5, Appli |
| 232 | 26 | 54.2 | 696 | 11 | US-11-072-512-3647 | Sequence 3647, Ap |
| 233 | 26 | 54.2 | 740 | 11 | US-11-188-298-3509 | Sequence 3509, Ap |
| 234 | 26 | 54.2 | 740 | 11 | US-11-188-298-7874 | Sequence 7874, Ap |
| 235 | 26 | 54.2 | 745 | 11 | US-11-188-298-7319 | Sequence 7319, Ap |
| 236 | 26 | 54.2 | 749 | 11 | US-11-188-298-10526 | Sequence 10526, A |
| 237 | 26 | 54.2 | 789 | 11 | US-11-200-296B-77 | Sequence 77, Appl |
| 238 | 26 | 54.2 | 792 | 11 | US-11-200-296B-79 | Sequence 79, Appl |
| 239 | 26 | 54.2 | 808 | 11 | US-11-288-493-70 | Sequence 70, Appl |
| 240 | 26 | 54.2 | 810 | 11 | US-11-079-463-9632 | Sequence 9632, Ap |

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| 241 | 26 | 54.2 | 831 | 11 | US-11-098-686-10875 | Sequence 10875, A |
| 242 | 26 | 54.2 | 976 | 9 | US-10-966-483-2 | Sequence 2, Appli |
| 243 | 26 | 54.2 | 976 | 9 | US-10-511-273-1 | Sequence 1, Appli |
| 244 | 26 | 54.2 | 976 | 11 | US-11-233-796-2 | Sequence 2, Appli |
| 245 | 26 | 54.2 | 976 | 11 | US-11-072-175-138 | Sequence 138, App |
| 246 | 26 | 54.2 | 976 | 11 | US-11-203-251A-77 | Sequence 77, Appl |
| 247 | 26 | 54.2 | 1035 | 9 | US-10-966-483-20 | Sequence 20, Appl |
| 248 | 26 | 54.2 | 1035 | 11 | US-11-021-441-4 | Sequence 4, Appli |
| 249 | 26 | 54.2 | 1306 | 9 | US-10-467-657-5406 | Sequence 5406, Ap |
| 250 | 26 | 54.2 | 1341 | 11 | US-11-226-869-565 | Sequence 565, App |
| 251 | 26 | 54.2 | 1349 | 11 | US-11-226-869-573 | Sequence 573, App |
| 252 | 26 | 54.2 | 1719 | 11 | US-11-234-786-378 | Sequence 378, App |
| 253 | 26 | 54.2 | 2139 | 11 | US-11-087-099-2279 | Sequence 2279, Ap |
| 254 | 26 | 54.2 | 4373 | 10 | US-11-118-524-2 | Sequence 2, Appli |
| 255 | 26 | 54.2 | 4374 | 11 | US-11-128-572-2 | Sequence 2, Appli |
| 256 | 25.5 | 53.1 | 1627 | 11 | US-11-052-554A-124 | Sequence 124, App |
| 257 | 25 | 52.1 | 11 | 9 | US-10-530-061-481 | Sequence 481, App |
| 258 | 25 | 52.1 | 15 | 9 | US-10-530-061-1702 | Sequence 1702, Ap |
| 259 | 25 | 52.1 | 20 | 9 | US-10-485-788A-541 | Sequence 541, App |
| 260 | 25 | 52.1 | 64 | 11 | US-11-079-463-8097 | Sequence 8097, Ap |
| 261 | 25 | 52.1 | 69 | 11 | US-11-096-568A-6194 | Sequence 6194, Ap |
| 262 | 25 | 52.1 | 81 | 11 | US-11-188-298-7749 | Sequence 7749, Ap |
| 263 | 25 | 52.1 | 130 | 11 | US-11-072-512-3570 | Sequence 3570, Ap |
| 264 | 25 | 52.1 | 143 | 9 | US-10-467-657-9090 | Sequence 9090, Ap |
| 265 | 25 | 52.1 | 149 | 9 | US-10-454-437-398 | Sequence 398, App |
| 266 | 25 | 52.1 | 152 | 11 | US-11-079-463-7786 | Sequence 7786, Ap |
| 267 | 25 | 52.1 | 157 | 11 | US-11-087-099-476 | Sequence 476, App |
| 268 | 25 | 52.1 | 157 | 11 | US-11-087-099-1621 | Sequence 1621, Ap |
| 269 | 25 | 52.1 | 157 | 11 | US-11-096-568A-32778 | Sequence 32778, A |
| 270 | 25 | 52.1 | 161 | 11 | US-11-087-099-3457 | Sequence 3457, Ap |
| 271 | 25 | 52.1 | 168 | 11 | US-11-096-568A-13825 | Sequence 13825, A |
| 272 | 25 | 52.1 | 187 | 11 | US-11-096-568A-13824 | Sequence 13824, A |
| 273 | 25 | 52.1 | 190 | 9 | US-10-506-454-328 | Sequence 328, App |
| 274 | 25 | 52.1 | 218 | 11 | US-11-055-822-588 | Sequence 588, App |
| 275 | 25 | 52.1 | 218 | 11 | US-11-055-822-590 | Sequence 590, App |
| 276 | 25 | 52.1 | 219 | 11 | US-11-096-568A-18567 | Sequence 18567, A |
| 277 | 25 | 52.1 | 235 | 11 | US-11-100-183-24 | Sequence 24, Appl |
| 278 | 25 | 52.1 | 247 | 9 | US-10-548-748-4 | Sequence 4, Appli |
| 279 | 25 | 52.1 | 250 | 11 | US-11-258-868-4 | Sequence 4, Appli |
| 280 | 25 | 52.1 | 257 | 11 | US-11-188-298-22080 | Sequence 22080, A |
| 281 | 25 | 52.1 | 271 | 11 | US-11-079-463-8281 | Sequence 8281, Ap |
| 282 | 25 | 52.1 | 284 | 11 | US-11-087-099-10570 | Sequence 10570, A |
| 283 | 25 | 52.1 | 299 | 11 | US-11-087-099-11210 | Sequence 11210, A |
| 284 | 25 | 52.1 | 302 | 11 | US-11-219-282-35 | Sequence 35, Appl |
| 285 | 25 | 52.1 | 310 | 11 | US-11-055-822-140 | Sequence 140, App |
| 286 | 25 | 52.1 | 318 | 11 | US-11-087-099-3040 | Sequence 3040, Ap |
| 287 | 25 | 52.1 | 329 | 11 | US-11-087-099-6958 | Sequence 6958, Ap |
| 288 | 25 | 52.1 | 329 | 11 | US-11-087-099-11540 | Sequence 11540, A |
| 289 | 25 | 52.1 | 331 | 11 | US-11-202-566-25 | Sequence 25, Appl |
| 290 | 25 | 52.1 | 338 | 9 | US-10-467-657-4976 | Sequence 4976, Ap |
| 291 | 25 | 52.1 | 339 | 11 | US-11-172-740-1316 | Sequence 1316, Ap |
| 292 | 25 | 52.1 | 340 | 11 | US-11-087-099-3615 | Sequence 3615, Ap |
| 293 | 25 | 52.1 | 343 | 11 | US-11-188-298-22168 | Sequence 22168, A |
| 294 | 25 | 52.1 | 349 | 11 | US-11-129-143-45 | Sequence 45, Appl |
| 295 | 25 | 52.1 | 351 | 11 | US-11-219-282-34 | Sequence 34, Appl |
| 296 | 25 | 52.1 | 356 | 11 | US-11-219-282-32 | Sequence 32, Appl |
| 297 | 25 | 52.1 | 358 | 11 | US-11-072-175-209 | Sequence 209, App |
| 298 | 25 | 52.1 | 362 | 11 | US-11-098-686-11051 | Sequence 11051, A |
| 299 | 25 | 52.1 | 362 | 11 | US-11-188-298-1748 | Sequence 1748, Ap |
| 300 | 25 | 52.1 | 362 | 11 | US-11-188-298-13226 | Sequence 13226, A |
| 301 | 25 | 52.1 | 362 | 11 | US-11-188-298-21271 | Sequence 21271, A |
| 302 | 25 | 52.1 | 369 | 9 | US-10-467-657-7206 | Sequence 7206, Ap |
| 303 | 25 | 52.1 | 371 | 11 | US-11-087-099-3297 | Sequence 3297, Ap |
| 304 | 25 | 52.1 | 372 | 11 | US-11-188-298-16984 | Sequence 16984, A |
| 305 | 25 | 52.1 | 376 | 11 | US-11-087-099-5833 | Sequence 5833, Ap |
| 306 | 25 | 52.1 | 376 | 11 | US-11-188-298-19115 | Sequence 19115, A |
| 307 | 25 | 52.1 | 379 | 11 | US-11-129-143-66 | Sequence 66, Appl |
| 308 | 25 | 52.1 | 386 | 11 | US-11-087-099-7489 | Sequence 7489, Ap |
| 309 | 25 | 52.1 | 386 | 11 | US-11-188-298-9938 | Sequence 9938, Ap |
| 310 | 25 | 52.1 | 391 | 11 | US-11-188-298-10690 | Sequence 10690, A |
| 311 | 25 | 52.1 | 397 | 11 | US-11-087-099-4612 | Sequence 4612, Ap |
| 312 | 25 | 52.1 | 397 | 11 | US-11-087-099-7096 | Sequence 7096, Ap |
| 313 | 25 | 52.1 | 400 | 11 | US-11-188-298-15587 | Sequence 15587, A |
| 314 | 25 | 52.1 | 403 | 11 | US-11-219-282-24 | Sequence 24, Appl |
| 315 | 25 | 52.1 | 404 | 11 | US-11-124-368A-258 | Sequence 258, App |
| 316 | 25 | 52.1 | 412 | 11 | US-11-082-389-96 | Sequence 96, Appl |
| 317 | 25 | 52.1 | 417 | 9 | US-10-194-487-452 | Sequence 452, App |
| 318 | 25 | 52.1 | 417 | 9 | US-10-195-883-452 | Sequence 452, App |
| 319 | 25 | 52.1 | 417 | 9 | US-10-195-888-452 | Sequence 452, App |
| 320 | 25 | 52.1 | 417 | 9 | US-10-195-889-452 | Sequence 452, App |
| 321 | 25 | 52.1 | 417 | 11 | US-11-147-047-39 | Sequence 39, Appl |
| 322 | 25 | 52.1 | 417 | 11 | US-11-219-282-23 | Sequence 23, Appl |
| 323 | 25 | 52.1 | 425 | 9 | US-10-467-657-8052 | Sequence 8052, Ap |
| 324 | 25 | 52.1 | 427 | 8 | US-10-505-928-774 | Sequence 774, App |
| 325 | 25 | 52.1 | 431 | 11 | US-11-188-298-3818 | Sequence 3818, Ap |
| 326 | 25 | 52.1 | 431 | 11 | US-11-188-298-20784 | Sequence 20784, A |
| 327 | 25 | 52.1 | 449 | 11 | US-11-096-568A-20424 | Sequence 20424, A |
| 328 | 25 | 52.1 | 452 | 11 | US-11-087-099-4768 | Sequence 4768, Ap |
| 329 | 25 | 52.1 | 456 | 11 | US-11-096-568A-20423 | Sequence 20423, A |
| 330 | 25 | 52.1 | 459 | 11 | US-11-079-463-6435 | Sequence 6435, Ap |
| 331 | 25 | 52.1 | 460 | 9 | US-10-995-561-857 | Sequence 857, App |
| 332 | 25 | 52.1 | 472 | 11 | US-11-096-568A-20422 | Sequence 20422, A |
| 333 | 25 | 52.1 | 473 | 11 | US-11-188-298-7389 | Sequence 7389, Ap |
| 334 | 25 | 52.1 | 480 | 11 | US-11-188-298-5894 | Sequence 5894, Ap |
| 335 | 25 | 52.1 | 480 | 11 | US-11-188-298-10028 | Sequence 10028, A |
| 336 | 25 | 52.1 | 483 | 11 | US-11-079-463-9241 | Sequence 9241, Ap |
| 337 | 25 | 52.1 | 487 | 11 | US-11-087-099-9366 | Sequence 9366, Ap |
| 338 | 25 | 52.1 | 490 | 11 | US-11-074-176-316 | Sequence 316, App |
| 339 | 25 | 52.1 | 495 | 9 | US-10-821-234-1154 | Sequence 1154, Ap |
| 340 | 25 | 52.1 | 495 | 11 | US-11-074-176-60 | Sequence 60, Appl |
| 341 | 25 | 52.1 | 507 | 11 | US-11-188-298-12870 | Sequence 12870, A |
| 342 | 25 | 52.1 | 519 | 11 | US-11-099-691-10 | Sequence 10, Appl |
| 343 | 25 | 52.1 | 520 | 11 | US-11-096-568A-20825 | Sequence 20825, A |
| 344 | 25 | 52.1 | 542 | 11 | US-11-188-298-19131 | Sequence 19131, A |
| 345 | 25 | 52.1 | 547 | 11 | US-11-096-568A-20824 | Sequence 20824, A |
| 346 | 25 | 52.1 | 586 | 11 | US-11-072-512-3485 | Sequence 3485, Ap |
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| 349 | 25 | 52.1 | 606 | 11 | US-11-087-099-7588 | Sequence 7588, Ap |
| 350 | 25 | 52.1 | 612 | 11 | US-11-172-740-1347 | Sequence 1347, Ap |
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| 353 | 25 | 52.1 | 637 | 11 | US-11-087-099-866 | Sequence 866, App |
| 354 | 25 | 52.1 | 648 | 11 | US-11-096-568A-20823 | Sequence 20823, A |
| 355 | 25 | 52.1 | 649 | 11 | US-11-096-568A-28138 | Sequence 28138, A |
| 356 | 25 | 52.1 | 655 | 11 | US-11-188-298-14574 | Sequence 14574, A |
| 357 | 25 | 52.1 | 665 | 11 | US-11-096-568A-28137 | Sequence 28137, A |
| 358 | 25 | 52.1 | 673 | 11 | US-11-124-368A-257 | Sequence 257, App |
| 359 | 25 | 52.1 | 683 | 11 | US-11-087-099-4971 | Sequence 4971, Ap |
| 360 | 25 | 52.1 | 694 | 9 | US-10-506-454-1294 | Sequence 1294, Ap |
| 361 | 25 | 52.1 | 702 | 11 | US-11-079-463-8851 | Sequence 8851, Ap |
| 362 | 25 | 52.1 | 705 | 9 | US-10-995-561-856 | Sequence 856, App |
| 363 | 25 | 52.1 | 706 | 8 | US-10-511-937-2450 | Sequence 2450, Ap |
| 364 | 25 | 52.1 | 706 | 9 | US-10-995-561-855 | Sequence 855, App |
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| 370 | 25 | 52.1 | 757 | 11 | US-11-188-298-10511 | Sequence 10511, A |
| 371 | 25 | 52.1 | 764 | 11 | US-11-087-099-11066 | Sequence 11066, A |
| 372 | 25 | 52.1 | 764 | 11 | US-11-188-298-10220 | Sequence 10220, A |
| 373 | 25 | 52.1 | 772 | 11 | US-11-079-463-10194 | Sequence 10194, A |
| 374 | 25 | 52.1 | 798 | 11 | US-11-096-568A-31861 | Sequence 31861, A |
| 375 | 25 | 52.1 | 1185 | 9 | US-10-877-346-7 | Sequence 7, Appli |
| 376 | 25 | 52.1 | 1474 | 11 | US-11-188-298-6321 | Sequence 6321, Ap |
| 377 | 25 | 52.1 | 1647 | 11 | US-11-052-554A-260 | Sequence 260, App |
| 378 | 25 | 52.1 | 1786 | 11 | US-11-188-298-4785 | Sequence 4785, Ap |
| 379 | 25 | 52.1 | 1832 | 11 | US-11-087-099-7762 | Sequence 7762, Ap |
| 380 | 25 | 52.1 | 1832 | 11 | US-11-188-298-18195 | Sequence 18195, A |
| 381 | 25 | 52.1 | 1870 | 11 | US-11-188-298-17645 | Sequence 17645, A |
| 382 | 25 | 52.1 | 1908 | 9 | US-10-915-002-314 | Sequence 314, App |
| 383 | 25 | 52.1 | 2202 | 8 | US-10-488-015-12 | Sequence 12, Appl |
| 384 | 25 | 52.1 | 2491 | 9 | US-10-995-561-769 | Sequence 769, App |
| 385 | 25 | 52.1 | 3685 | 11 | US-11-055-497A-8 | Sequence 8, Appli |
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| 388 | 24 | 50.0 | 12 | 11 | US-11-237-801-4 | Sequence 4, Appli |
| 389 | 24 | 50.0 | 13 | 11 | US-11-237-801-1 | Sequence 1, Appli |
| 390 | 24 | 50.0 | 20 | 11 | US-11-110-274-325 | Sequence 325, App |
| 391 | 24 | 50.0 | 20 | 11 | US-11-166-412-165 | Sequence 165, App |
| 392 | 24 | 50.0 | 20 | 11 | US-11-139-041-383 | Sequence 383, App |
| 393 | 24 | 50.0 | 26 | 11 | US-11-237-801-3 | Sequence 3, Appli |
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| 395 | 24 | 50.0 | 52 | 11 | US-11-129-741-2020 | Sequence 2020, Ap |
| 396 | 24 | 50.0 | 63 | 9 | US-10-467-657-6512 | Sequence 6512, Ap |
| 397 | 24 | 50.0 | 70 | 11 | US-11-079-463-9843 | Sequence 9843, Ap |
| 398 | 24 | 50.0 | 73 | 11 | US-11-172-740-47 | Sequence 47, Appl |
| 399 | 24 | 50.0 | 94 | 11 | US-11-045-004-1636 | Sequence 1636, Ap |
| 400 | 24 | 50.0 | 97 | 11 | US-11-096-568A-810 | Sequence 810, App |
| 401 | 24 | 50.0 | 104 | 11 | US-11-096-568A-3641 | Sequence 3641, Ap |
| 402 | 24 | 50.0 | 120 | 11 | US-11-045-004-1383 | Sequence 1383, Ap |
| 403 | 24 | 50.0 | 132 | 9 | US-10-821-234-1218 | Sequence 1218, Ap |
| 404 | 24 | 50.0 | 132 | 9 | US-10-467-657-8707 | Sequence 8707, Ap |
| 405 | 24 | 50.0 | 134 | 11 | US-11-072-512-2660 | Sequence 2660, Ap |
| 406 | 24 | 50.0 | 145 | 11 | US-11-051-720-1294 | Sequence 1294, Ap |
| 407 | 24 | 50.0 | 147 | 11 | US-11-188-298-2734 | Sequence 2734, Ap |
| 408 | 24 | 50.0 | 151 | 11 | US-11-096-568A-3413 | Sequence 3413, Ap |
| 409 | 24 | 50.0 | 160 | 11 | US-11-188-298-8269 | Sequence 8269, Ap |
| 410 | 24 | 50.0 | 161 | 11 | US-11-188-298-1780 | Sequence 1780, Ap |
| 411 | 24 | 50.0 | 163 | 9 | US-10-510-386-194 | Sequence 194, App |
| 412 | 24 | 50.0 | 166 | 9 | US-10-793-626-2096 | Sequence 2096, Ap |
| 413 | 24 | 50.0 | 166 | 11 | US-11-096-568A-11263 | Sequence 11263, A |
| 414 | 24 | 50.0 | 166 | 11 | US-11-096-568A-21147 | Sequence 21147, A |
| 415 | 24 | 50.0 | 182 | 9 | US-10-878-556A-98 | Sequence 98, Appl |
| 416 | 24 | 50.0 | 182 | 11 | US-11-096-568A-3412 | Sequence 3412, Ap |
| 417 | 24 | 50.0 | 187 | 11 | US-11-087-099-6501 | Sequence 6501, Ap |
| 418 | 24 | 50.0 | 187 | 11 | US-11-096-568A-3640 | Sequence 3640, Ap |
| 419 | 24 | 50.0 | 192 | 11 | US-11-096-568A-3639 | Sequence 3639, Ap |
| 420 | 24 | 50.0 | 194 | 11 | US-11-188-298-6043 | Sequence 6043, Ap |
| 421 | 24 | 50.0 | 194 | 11 | US-11-188-298-9389 | Sequence 9389, Ap |
| 422 | 24 | 50.0 | 194 | 11 | US-11-188-298-13767 | Sequence 13767, A |
| 423 | 24 | 50.0 | 197 | 11 | US-11-096-568A-21146 | Sequence 21146, A |
| 424 | 24 | 50.0 | 199 | 11 | US-11-096-568A-3411 | Sequence 3411, Ap |
| 425 | 24 | 50.0 | 200 | 11 | US-11-188-298-22566 | Sequence 22566, A |
| 426 | 24 | 50.0 | 203 | 11 | US-11-045-004-1032 | Sequence 1032, Ap |
| 427 | 24 | 50.0 | 205 | 9 | US-10-330-773-274 | Sequence 274, App |
| 428 | 24 | 50.0 | 208 | 7 | US-09-978-360A-660 | Sequence 660, App |
| 429 | 24 | 50.0 | 210 | 11 | US-11-051-720-1293 | Sequence 1293, Ap |
| 430 | 24 | 50.0 | 212 | 9 | US-10-330-773-271 | Sequence 271, App |
| 431 | 24 | 50.0 | 212 | 11 | US-11-172-740-17 | Sequence 17, Appl |
| 432 | 24 | 50.0 | 212 | 11 | US-11-188-298-14223 | Sequence 14223, A |
| 433 | 24 | 50.0 | 213 | 11 | US-11-188-298-22323 | Sequence 22323, A |
| 434 | 24 | 50.0 | 215 | 11 | US-11-096-568A-27068 | Sequence 27068, A |
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| 436 | 24 | 50.0 | 225 | 11 | US-11-096-568A-27066 | Sequence 27066, A |
| 437 | 24 | 50.0 | 226 | 11 | US-11-156-084-107 | Sequence 107, App |
| 438 | 24 | 50.0 | 228 | 11 | US-11-072-512-2486 | Sequence 2486, Ap |
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| 440 | 24 | 50.0 | 229 | 11 | US-11-096-568A-24698 | Sequence 24698, A |
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| 442 | 24 | 50.0 | 234 | 11 | US-11-087-099-9987 | Sequence 9987, Ap |
| 443 | 24 | 50.0 | 239 | 11 | US-11-087-099-8236 | Sequence 8236, Ap |
| 444 | 24 | 50.0 | 239 | 11 | US-11-096-568A-31679 | Sequence 31679, A |
| 445 | 24 | 50.0 | 239 | 11 | US-11-188-298-7616 | Sequence 7616, Ap |
| 446 | 24 | 50.0 | 239 | 11 | US-11-045-004-1253 | Sequence 1253, Ap |
| 447 | 24 | 50.0 | 240 | 9 | US-10-467-657-998 | Sequence 998, App |
| 448 | 24 | 50.0 | 240 | 11 | US-11-096-568A-11262 | Sequence 11262, A |
| 449 | 24 | 50.0 | 244 | 11 | US-11-264-096-967 | Sequence 967, App |
| 450 | 24 | 50.0 | 244 | 11 | US-11-264-096-968 | Sequence 968, App |
| 451 | 24 | 50.0 | 245 | 11 | US-11-096-568A-28422 | Sequence 28422, A |
| 452 | 24 | 50.0 | 250 | 11 | US-11-096-568A-31678 | Sequence 31678, A |
| 453 | 24 | 50.0 | 253 | 11 | US-11-072-512-3306 | Sequence 3306, Ap |
| 454 | 24 | 50.0 | 257 | 11 | US-11-045-004-1410 | Sequence 1410, Ap |
| 455 | 24 | 50.0 | 261 | 11 | US-11-098-686-10426 | Sequence 10426, A |
| 456 | 24 | 50.0 | 270 | 9 | US-10-467-657-210 | Sequence 210, App |
| 457 | 24 | 50.0 | 270 | 9 | US-10-467-657-6474 | Sequence 6474, Ap |
| 458 | 24 | 50.0 | 277 | 11 | US-11-096-568A-6103 | Sequence 6103, Ap |
| 459 | 24 | 50.0 | 277 | 11 | US-11-096-568A-11261 | Sequence 11261, A |
| 460 | 24 | 50.0 | 282 | 9 | US-10-063-703-60 | Sequence 60, Appl |
| 461 | 24 | 50.0 | 282 | 9 | US-10-194-487-218 | Sequence 218, App |
| 462 | 24 | 50.0 | 282 | 9 | US-10-195-883-218 | Sequence 218, App |
| 463 | 24 | 50.0 | 282 | 9 | US-10-195-888-218 | Sequence 218, App |
| 464 | 24 | 50.0 | 282 | 9 | US-10-195-889-218 | Sequence 218, App |
| 465 | 24 | 50.0 | 282 | 11 | US-11-102-240-60 | Sequence 60, Appl |
| 466 | 24 | 50.0 | 282 | 11 | US-11-103-195-60 | Sequence 60, Appl |
| 467 | 24 | 50.0 | 286 | 11 | US-11-096-568A-6102 | Sequence 6102, Ap |
| 468 | 24 | 50.0 | 287 | 11 | US-11-087-099-3562 | Sequence 3562, Ap |
| 469 | 24 | 50.0 | 287 | 11 | US-11-087-099-3701 | Sequence 3701, Ap |
| 470 | 24 | 50.0 | 287 | 11 | US-11-045-004-1495 | Sequence 1495, Ap |
| 471 | 24 | 50.0 | 290 | 10 | US-11-252-080-8 | Sequence 8, Appli |
| 472 | 24 | 50.0 | 293 | 11 | US-11-098-686-10871 | Sequence 10871, A |
| 473 | 24 | 50.0 | 297 | 11 | US-11-096-568A-10831 | Sequence 10831, A |
| 474 | 24 | 50.0 | 307 | 11 | US-11-098-686-10143 | Sequence 10143, A |
| 475 | 24 | 50.0 | 308 | 11 | US-11-188-298-4358 | Sequence 4358, Ap |
| 476 | 24 | 50.0 | 310 | 11 | US-11-055-163-7 | Sequence 7, Appli |
| 477 | 24 | 50.0 | 314 | 9 | US-10-204-639-2 | Sequence 2, Appli |
| 478 | 24 | 50.0 | 315 | 11 | US-11-072-512-3458 | Sequence 3458, Ap |
| 479 | 24 | 50.0 | 315 | 11 | US-11-030-300-19 | Sequence 19, Appl |
| 480 | 24 | 50.0 | 318 | 11 | US-11-098-686-10517 | Sequence 10517, A |
| 481 | 24 | 50.0 | 321 | 11 | US-11-096-568A-5175 | Sequence 5175, Ap |
| 482 | 24 | 50.0 | 322 | 9 | US-10-467-657-8699 | Sequence 8699, Ap |
| 483 | 24 | 50.0 | 322 | 10 | US-11-283-522-7 | Sequence 7, Appli |
| 484 | 24 | 50.0 | 323 | 11 | US-11-064-533-2 | Sequence 2, Appli |
| 485 | 24 | 50.0 | 326 | 11 | US-11-096-568A-22130 | Sequence 22130, A |
| 486 | 24 | 50.0 | 326 | 11 | US-11-096-568A-23599 | Sequence 23599, A |
| 487 | 24 | 50.0 | 327 | 9 | US-10-467-657-34 | Sequence 34, Appl |
| 488 | 24 | 50.0 | 330 | 11 | US-11-156-084-230 | Sequence 230, App |
| 489 | 24 | 50.0 | 332 | 11 | US-11-096-568A-26863 | Sequence 26863, A |
| 490 | 24 | 50.0 | 334 | 11 | US-11-110-274-6 | Sequence 6, Appli |
| 491 | 24 | 50.0 | 334 | 11 | US-11-166-412-64 | Sequence 64, Appl |
| 492 | 24 | 50.0 | 334 | 11 | US-11-040-218-51 | Sequence 51, Appl |
| 493 | 24 | 50.0 | 336 | 9 | US-10-517-939-94 | Sequence 94, Appl |
| 494 | 24 | 50.0 | 341 | 9 | US-10-467-657-8374 | Sequence 8374, Ap |
| 495 | 24 | 50.0 | 342 | 11 | US-11-087-099-7063 | Sequence 7063, Ap |
| 496 | 24 | 50.0 | 344 | 11 | US-11-055-163-6 | Sequence 6, Appli |
| 497 | 24 | 50.0 | 344 | 11 | US-11-096-568A-15717 | Sequence 15717, A |
| 498 | 24 | 50.0 | 345 | 11 | US-11-188-298-16496 | Sequence 16496, A |
| 499 | 24 | 50.0 | 346 | 9 | US-10-793-626-2034 | Sequence 2034, Ap |
| 500 | 24 | 50.0 | 348 | 11 | US-11-040-218-53 | Sequence 53, Appl |
| 501 | 24 | 50.0 | 348 | 11 | US-11-087-099-10729 | Sequence 10729, A |
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| 504 | 24 | 50.0 | 350 | 11 | US-11-040-218-55 | Sequence 55, Appl |
| 505 | 24 | 50.0 | 353 | 10 | US-11-283-522-9 | Sequence 9, Appli |
| 506 | 24 | 50.0 | 355 | 11 | US-11-096-568A-20471 | Sequence 20471, A |
| 507 | 24 | 50.0 | 357 | 11 | US-11-129-143-73 | Sequence 73, Appl |
| 508 | 24 | 50.0 | 357 | 11 | US-11-096-568A-6101 | Sequence 6101, Ap |
| 509 | 24 | 50.0 | 359 | 11 | US-11-096-568A-18915 | Sequence 18915, A |
| 510 | 24 | 50.0 | 364 | 11 | US-11-040-218-57 | Sequence 57, Appl |
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| 512 | 24 | 50.0 | 373 | 11 | US-11-096-568A-22129 | Sequence 22129, A |
| 513 | 24 | 50.0 | 374 | 11 | US-11-079-463-9436 | Sequence 9436, Ap |
| 514 | 24 | 50.0 | 376 | 11 | US-11-096-568A-8406 | Sequence 8406, Ap |
| 515 | 24 | 50.0 | 377 | 11 | US-11-096-568A-26862 | Sequence 26862, A |
| 516 | 24 | 50.0 | 380 | 11 | US-11-096-568A-23598 | Sequence 23598, A |
| 517 | 24 | 50.0 | 386 | 11 | US-11-087-099-8893 | Sequence 8893, Ap |
| 518 | 24 | 50.0 | 390 | 11 | US-11-194-246-288 | Sequence 288, App |
| 519 | 24 | 50.0 | 391 | 9 | US-10-996-628-2 | Sequence 2, Appli |
| 520 | 24 | 50.0 | 393 | 11 | US-11-096-568A-18914 | Sequence 18914, A |
| 521 | 24 | 50.0 | 403 | 11 | US-11-096-568A-26158 | Sequence 26158, A |
| 522 | 24 | 50.0 | 406 | 11 | US-11-072-512-3204 | Sequence 3204, Ap |
| 523 | 24 | 50.0 | 407 | 9 | US-10-517-939-12 | Sequence 12, Appl |
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| 525 | 24 | 50.0 | 407 | 11 | US-11-188-298-21106 | Sequence 21106, A |
| 526 | 24 | 50.0 | 408 | 8 | US-10-505-928-455 | Sequence 455, App |
| 527 | 24 | 50.0 | 408 | 9 | US-10-921-793-10 | Sequence 10, Appl |
| 528 | 24 | 50.0 | 408 | 9 | US-10-931-198-10 | Sequence 10, Appl |
| 529 | 24 | 50.0 | 408 | 9 | US-10-942-042-10 | Sequence 10, Appl |
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| 531 | 24 | 50.0 | 408 | 11 | US-11-124-367A-344 | Sequence 344, App |
| 532 | 24 | 50.0 | 408 | 11 | US-11-124-367A-345 | Sequence 345, App |

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| 533 | 24 | 50.0 | 408 | 11 | US-11-124-367A-346 | Sequence 346, App |
| 534 | 24 | 50.0 | 408 | 11 | US-11-124-367A-347 | Sequence 347, App |
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| 537 | 24 | 50.0 | 410 | 11 | US-11-188-298-4986 | Sequence 4986, Ap |
| 538 | 24 | 50.0 | 410 | 11 | US-11-188-298-5343 | Sequence 5343, Ap |
| 539 | 24 | 50.0 | 411 | 11 | US-11-079-463-8751 | Sequence 8751, Ap |
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| 543 | 24 | 50.0 | 419 | 11 | US-11-051-568-19 | Sequence 19, Appl |
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| 546 | 24 | 50.0 | 421 | 11 | US-11-188-298-20903 | Sequence 20903, A |
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| 548 | 24 | 50.0 | 422 | 11 | US-11-022-562-234 | Sequence 234, App |
| 549 | 24 | 50.0 | 425 | 11 | US-11-087-099-8009 | Sequence 8009, Ap |
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| 551 | 24 | 50.0 | 426 | 11 | US-11-172-740-1466 | Sequence 1466, Ap |
| 552 | 24 | 50.0 | 427 | 11 | US-11-172-740-1464 | Sequence 1464, Ap |
| 553 | 24 | 50.0 | 428 | 11 | US-11-096-568A-15716 | Sequence 15716, A |
| 554 | 24 | 50.0 | 428 | 11 | US-11-096-568A-24641 | Sequence 24641, A |
| 555 | 24 | 50.0 | 428 | 11 | US-11-096-568A-25650 | Sequence 25650, A |
| 556 | 24 | 50.0 | 428 | 11 | US-11-004-399-924 | Sequence 924, App |
| 557 | 24 | 50.0 | 428 | 11 | US-11-172-740-1465 | Sequence 1465, Ap |
| 558 | 24 | 50.0 | 429 | 11 | US-11-096-568A-25649 | Sequence 25649, A |
| 559 | 24 | 50.0 | 432 | 11 | US-11-096-568A-5174 | Sequence 5174, Ap |
| 560 | 24 | 50.0 | 433 | 11 | US-11-096-568A-7208 | Sequence 7208, Ap |
| 561 | 24 | 50.0 | 433 | 11 | US-11-079-463-10404 | Sequence 10404, A |
| 562 | 24 | 50.0 | 441 | 11 | US-11-096-568A-5173 | Sequence 5173, Ap |
| 563 | 24 | 50.0 | 444 | 11 | US-11-045-004-394 | Sequence 394, App |
| 564 | 24 | 50.0 | 445 | 11 | US-11-096-568A-16443 | Sequence 16443, A |
| 565 | 24 | 50.0 | 448 | 11 | US-11-096-568A-7207 | Sequence 7207, Ap |
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| 567 | 24 | 50.0 | 452 | 11 | US-11-096-568A-9903 | Sequence 9903, Ap |
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| 570 | 24 | 50.0 | 459 | 11 | US-11-096-568A-28421 | Sequence 28421, A |
| 571 | 24 | 50.0 | 459 | 11 | US-11-198-886-23 | Sequence 23, Appl |
| 572 | 24 | 50.0 | 460 | 11 | US-11-096-568A-20470 | Sequence 20470, A |
| 573 | 24 | 50.0 | 461 | 11 | US-11-156-084-35 | Sequence 35, Appl |
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| 578 | 24 | 50.0 | 466 | 11 | US-11-156-084-33 | Sequence 33, Appl |
| 579 | 24 | 50.0 | 473 | 9 | US-10-131-826A-382 | Sequence 382, App |
| 580 | 24 | 50.0 | 473 | 9 | US-10-973-115B-382 | Sequence 382, App |
| 581 | 24 | 50.0 | 473 | 9 | US-10-218-784-128 | Sequence 128, App |
| 582 | 24 | 50.0 | 473 | 9 | US-10-219-061-128 | Sequence 128, App |
| 583 | 24 | 50.0 | 473 | 9 | US-10-219-062-128 | Sequence 128, App |
| 584 | 24 | 50.0 | 473 | 9 | US-10-219-064-128 | Sequence 128, App |
| 585 | 24 | 50.0 | 473 | 9 | US-10-233-134-128 | Sequence 128, App |
| 586 | 24 | 50.0 | 473 | 9 | US-10-216-161A-400 | Sequence 400, App |
| 587 | 24 | 50.0 | 473 | 9 | US-10-137-873A-382 | Sequence 382, App |
| 588 | 24 | 50.0 | 473 | 9 | US-10-152-370-382 | Sequence 382, App |
| 589 | 24 | 50.0 | 473 | 11 | US-11-290-153-382 | Sequence 382, App |
| 590 | 24 | 50.0 | 478 | 11 | US-11-045-004-810 | Sequence 810, App |
| 591 | 24 | 50.0 | 479 | 11 | US-11-188-298-18105 | Sequence 18105, A |
| 592 | 24 | 50.0 | 482 | 11 | US-11-096-568A-8405 | Sequence 8405, Ap |
| 593 | 24 | 50.0 | 483 | 11 | US-11-188-298-21060 | Sequence 21060, A |
| 594 | 24 | 50.0 | 484 | 11 | US-11-096-568A-15715 | Sequence 15715, A |
| 595 | 24 | 50.0 | 485 | 11 | US-11-087-099-3061 | Sequence 3061, Ap |
| 596 | 24 | 50.0 | 485 | 11 | US-11-096-568A-24640 | Sequence 24640, A |
| 597 | 24 | 50.0 | 486 | 11 | US-11-188-298-10864 | Sequence 10864, A |
| 598 | 24 | 50.0 | 487 | 11 | US-11-188-298-21736 | Sequence 21736, A |
| 599 | 24 | 50.0 | 488 | 11 | US-11-096-568A-8404 | Sequence 8404, Ap |
| 600 | 24 | 50.0 | 488 | 11 | US-11-188-298-19572 | Sequence 19572, A |
| 601 | 24 | 50.0 | 490 | 11 | US-11-096-568A-18913 | Sequence 18913, A |
| 602 | 24 | 50.0 | 494 | 11 | US-11-156-084-34 | Sequence 34, Appl |
| 603 | 24 | 50.0 | 495 | 11 | US-11-156-084-36 | Sequence 36, Appl |
| 604 | 24 | 50.0 | 507 | 9 | US-10-467-657-630 | Sequence 630, App |
| 605 | 24 | 50.0 | 517 | 11 | US-11-096-568A-9901 | Sequence 9901, Ap |
| 606 | 24 | 50.0 | 519 | 11 | US-11-079-463-5948 | Sequence 5948, Ap |
| 607 | 24 | 50.0 | 519 | 11 | US-11-079-463-9938 | Sequence 9938, Ap |
| 608 | 24 | 50.0 | 522 | 9 | US-10-995-561-1030 | Sequence 1030, Ap |
| 609 | 24 | 50.0 | 523 | 9 | US-10-467-657-5392 | Sequence 5392, Ap |
| 610 | 24 | 50.0 | 525 | 11 | US-11-079-463-6761 | Sequence 6761, Ap |
| 611 | 24 | 50.0 | 528 | 11 | US-11-188-298-19384 | Sequence 19384, A |
| 612 | 24 | 50.0 | 529 | 11 | US-11-096-568A-2419 | Sequence 2419, Ap |
| 613 | 24 | 50.0 | 529 | 11 | US-11-096-568A-2422 | Sequence 2422, Ap |
| 614 | 24 | 50.0 | 530 | 11 | US-11-013-592-12 | Sequence 12, Appl |
| 615 | 24 | 50.0 | 539 | 11 | US-11-087-099-3785 | Sequence 3785, Ap |
| 616 | 24 | 50.0 | 539 | 11 | US-11-087-099-11131 | Sequence 11131, A |
| 617 | 24 | 50.0 | 542 | 11 | US-11-103-957-59 | Sequence 59, Appl |
| 618 | 24 | 50.0 | 542 | 11 | US-11-188-298-13494 | Sequence 13494, A |
| 619 | 24 | 50.0 | 549 | 11 | US-11-103-957-76 | Sequence 76, Appl |
| 620 | 24 | 50.0 | 550 | 11 | US-11-188-298-8167 | Sequence 8167, Ap |
| 621 | 24 | 50.0 | 554 | 11 | US-11-188-298-5302 | Sequence 5302, Ap |
| 622 | 24 | 50.0 | 567 | 11 | US-11-096-568A-29028 | Sequence 29028, A |
| 623 | 24 | 50.0 | 580 | 11 | US-11-096-568A-29108 | Sequence 29108, A |
| 624 | 24 | 50.0 | 585 | 11 | US-11-188-298-22021 | Sequence 22021, A |
| 625 | 24 | 50.0 | 586 | 11 | US-11-096-568A-29027 | Sequence 29027, A |
| 626 | 24 | 50.0 | 595 | 11 | US-11-096-568A-20469 | Sequence 20469, A |
| 627 | 24 | 50.0 | 599 | 11 | US-11-096-568A-29107 | Sequence 29107, A |
| 628 | 24 | 50.0 | 607 | 11 | US-11-188-298-16279 | Sequence 16279, A |
| 629 | 24 | 50.0 | 610 | 11 | US-11-045-004-1527 | Sequence 1527, Ap |
| 630 | 24 | 50.0 | 617 | 11 | US-11-079-463-10311 | Sequence 10311, A |
| 631 | 24 | 50.0 | 622 | 9 | US-10-131-826A-180 | Sequence 180, App |
| 632 | 24 | 50.0 | 622 | 9 | US-10-973-115B-180 | Sequence 180, App |
| 633 | 24 | 50.0 | 622 | 9 | US-10-137-873A-180 | Sequence 180, App |
| 634 | 24 | 50.0 | 622 | 9 | US-10-152-370-180 | Sequence 180, App |
| 635 | 24 | 50.0 | 622 | 11 | US-11-290-153-180 | Sequence 180, App |
| 636 | 24 | 50.0 | 655 | 9 | US-10-517-310-2 | Sequence 2, Appli |
| 637 | 24 | 50.0 | 655 | 11 | US-11-184-860-1 | Sequence 1, Appli |
| 638 | 24 | 50.0 | 655 | 11 | US-11-124-368A-296 | Sequence 296, App |
| 639 | 24 | 50.0 | 655 | 11 | US-11-124-368A-297 | Sequence 297, App |
| 640 | 24 | 50.0 | 669 | 11 | US-11-072-512-3611 | Sequence 3611, Ap |
| 641 | 24 | 50.0 | 670 | 11 | US-11-150-883-52 | Sequence 52, Appl |
| 642 | 24 | 50.0 | 684 | 11 | US-11-096-568A-29026 | Sequence 29026, A |
| 643 | 24 | 50.0 | 685 | 11 | US-11-150-883-51 | Sequence 51, Appl |
| 644 | 24 | 50.0 | 697 | 11 | US-11-052-554A-110 | Sequence 110, App |
| 645 | 24 | 50.0 | 700 | 8 | US-10-505-928-239 | Sequence 239, App |
| 646 | 24 | 50.0 | 700 | 9 | US-10-501-035-371 | Sequence 371, App |
| 647 | 24 | 50.0 | 700 | 11 | US-11-186-284-141 | Sequence 141, App |
| 648 | 24 | 50.0 | 708 | 9 | US-10-623-155-369 | Sequence 369, App |
| 649 | 24 | 50.0 | 740 | 9 | US-10-821-234-1464 | Sequence 1464, Ap |
| 650 | 24 | 50.0 | 747 | 9 | US-10-714-995-32 | Sequence 32, Appl |
| 651 | 24 | 50.0 | 748 | 8 | US-10-505-928-674 | Sequence 674, App |
| 652 | 24 | 50.0 | 765 | 11 | US-11-172-410-19 | Sequence 19, Appl |
| 653 | 24 | 50.0 | 765 | 11 | US-11-087-099-8692 | Sequence 8692, Ap |
| 654 | 24 | 50.0 | 766 | 9 | US-10-821-234-1691 | Sequence 1691, Ap |
| 655 | 24 | 50.0 | 775 | 11 | US-11-087-099-8254 | Sequence 8254, Ap |
| 656 | 24 | 50.0 | 783 | 8 | US-10-509-131-25 | Sequence 25, Appl |
| 657 | 24 | 50.0 | 783 | 11 | US-11-186-284-59 | Sequence 59, Appl |
| 658 | 24 | 50.0 | 790 | 11 | US-11-051-720-1289 | Sequence 1289, Ap |
| 659 | 24 | 50.0 | 801 | 11 | US-11-096-568A-29144 | Sequence 29144, A |
| 660 | 24 | 50.0 | 809 | 11 | US-11-120-308-124 | Sequence 124, App |
| 661 | 24 | 50.0 | 809 | 11 | US-11-096-568A-29143 | Sequence 29143, A |
| 662 | 24 | 50.0 | 823 | 11 | US-11-166-892-4 | Sequence 4, Appli |
| 663 | 24 | 50.0 | 829 | 11 | US-11-188-298-7222 | Sequence 7222, Ap |
| 664 | 24 | 50.0 | 860 | 11 | US-11-172-410-2 | Sequence 2, Appli |
| 665 | 24 | 50.0 | 871 | 9 | US-10-933-025-3 | Sequence 3, Appli |
| 666 | 24 | 50.0 | 871 | 9 | US-10-518-184-1 | Sequence 1, Appli |
| 667 | 24 | 50.0 | 871 | 11 | US-11-051-720-1419 | Sequence 1419, Ap |
| 668 | 24 | 50.0 | 871 | 11 | US-11-051-720-1586 | Sequence 1586, Ap |
| 669 | 24 | 50.0 | 871 | 11 | US-11-051-720-1697 | Sequence 1697, Ap |
| 670 | 24 | 50.0 | 871 | 11 | US-11-219-360-3 | Sequence 3, Appli |
| 671 | 24 | 50.0 | 885 | 9 | US-10-784-004-703 | Sequence 703, App |
| 672 | 24 | 50.0 | 885 | 9 | US-10-784-004-1079 | Sequence 1079, Ap |
| 673 | 24 | 50.0 | 933 | 11 | US-11-072-512-2299 | Sequence 2299, Ap |
| 674 | 24 | 50.0 | 961 | 11 | US-11-188-298-14750 | Sequence 14750, A |
| 675 | 24 | 50.0 | 1025 | 9 | US-10-784-004-708 | Sequence 708, App |
| 676 | 24 | 50.0 | 1025 | 9 | US-10-784-004-1082 | Sequence 1082, Ap |
| 677 | 24 | 50.0 | 1037 | 9 | US-10-392-234A-36 | Sequence 36, Appl |
| 678 | 24 | 50.0 | 1048 | 9 | US-10-501-035-229 | Sequence 229, App |

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| 679 | 24 | 50.0 | 1123 | 11 | US-11-019-711-71 | Sequence 71, Appl |
| 680 | 24 | 50.0 | 1142 | 11 | US-11-087-099-3831 | Sequence 3831, Ap |
| 681 | 24 | 50.0 | 1165 | 9 | US-10-784-004-667 | Sequence 667, App |
| 682 | 24 | 50.0 | 1165 | 9 | US-10-784-004-775 | Sequence 775, App |
| 683 | 24 | 50.0 | 1165 | 9 | US-10-784-004-1063 | Sequence 1063, Ap |
| 684 | 24 | 50.0 | 1165 | 9 | US-10-784-004-1109 | Sequence 1109, Ap |
| 685 | 24 | 50.0 | 1166 | 11 | US-11-072-512-2949 | Sequence 2949, Ap |
| 686 | 24 | 50.0 | 1198 | 9 | US-10-453-372-880 | Sequence 880, App |
| 687 | 24 | 50.0 | 1210 | 11 | US-11-191-374-10 | Sequence 10, Appl |
| 688 | 24 | 50.0 | 1210 | 11 | US-11-191-375-10 | Sequence 10, Appl |
| 689 | 24 | 50.0 | 1210 | 11 | US-11-191-588-10 | Sequence 10, Appl |
| 690 | 24 | 50.0 | 1235 | 9 | US-10-784-004-783 | Sequence 783, App |
| 691 | 24 | 50.0 | 1235 | 9 | US-10-784-004-1111 | Sequence 1111, Ap |
| 692 | 24 | 50.0 | 1305 | 9 | US-10-784-004-671 | Sequence 671, App |
| 693 | 24 | 50.0 | 1305 | 9 | US-10-784-004-789 | Sequence 789, App |
| 694 | 24 | 50.0 | 1305 | 9 | US-10-784-004-1066 | Sequence 1066, Ap |
| 695 | 24 | 50.0 | 1305 | 9 | US-10-784-004-1114 | Sequence 1114, Ap |
| 696 | 24 | 50.0 | 1306 | 9 | US-10-995-561-1027 | Sequence 1027, Ap |
| 697 | 24 | 50.0 | 1398 | 9 | US-10-055-877-46 | Sequence 46, Appl |
| 698 | 24 | 50.0 | 1398 | 9 | US-10-453-372-872 | Sequence 872, App |
| 699 | 24 | 50.0 | 1403 | 9 | US-10-055-877-52 | Sequence 52, Appl |
| 700 | 24 | 50.0 | 1403 | 9 | US-10-453-372-878 | Sequence 878, App |
| 701 | 24 | 50.0 | 1404 | 9 | US-10-055-877-44 | Sequence 44, Appl |
| 702 | 24 | 50.0 | 1404 | 9 | US-10-453-372-870 | Sequence 870, App |
| 703 | 24 | 50.0 | 1418 | 9 | US-10-453-372-864 | Sequence 864, App |
| 704 | 24 | 50.0 | 1431 | 11 | US-11-128-059-2 | Sequence 2, Appli |
| 705 | 24 | 50.0 | 1450 | 9 | US-10-055-877-48 | Sequence 48, Appl |
| 706 | 24 | 50.0 | 1450 | 9 | US-10-453-372-874 | Sequence 874, App |
| 707 | 24 | 50.0 | 1463 | 9 | US-10-971-982-3 | Sequence 3, Appli |
| 708 | 24 | 50.0 | 1515 | 9 | US-10-784-004-754 | Sequence 754, App |
| 709 | 24 | 50.0 | 1515 | 9 | US-10-784-004-1098 | Sequence 1098, Ap |
| 710 | 24 | 50.0 | 1534 | 8 | US-10-505-928-40 | Sequence 40, Appl |
| 711 | 24 | 50.0 | 1547 | 9 | US-10-453-372-886 | Sequence 886, App |
| 712 | 24 | 50.0 | 1577 | 9 | US-10-055-877-54 | Sequence 54, Appl |
| 713 | 24 | 50.0 | 1577 | 9 | US-10-453-372-882 | Sequence 882, App |
| 714 | 24 | 50.0 | 1577 | 9 | US-10-453-372-884 | Sequence 884, App |
| 715 | 24 | 50.0 | 1585 | 9 | US-10-784-004-699 | Sequence 699, App |
| 716 | 24 | 50.0 | 1585 | 9 | US-10-784-004-1078 | Sequence 1078, Ap |
| 717 | 24 | 50.0 | 1594 | 9 | US-10-453-372-860 | Sequence 860, App |
| 718 | 24 | 50.0 | 1620 | 9 | US-10-453-372-868 | Sequence 868, App |
| 719 | 24 | 50.0 | 1653 | 9 | US-10-453-372-866 | Sequence 866, App |
| 720 | 24 | 50.0 | 1655 | 9 | US-10-784-004-668 | Sequence 668, App |
| 721 | 24 | 50.0 | 1655 | 9 | US-10-784-004-1064 | Sequence 1064, Ap |
| 722 | 24 | 50.0 | 1711 | 11 | US-11-143-984A-38 | Sequence 38, Appl |
| 723 | 24 | 50.0 | 1725 | 9 | US-10-784-004-659 | Sequence 659, App |
| 724 | 24 | 50.0 | 1725 | 9 | US-10-784-004-1058 | Sequence 1058, Ap |
| 725 | 24 | 50.0 | 1766 | 9 | US-10-204-639-36 | Sequence 36, Appl |
| 726 | 24 | 50.0 | 1795 | 9 | US-10-784-004-662 | Sequence 662, App |
| 727 | 24 | 50.0 | 1795 | 9 | US-10-784-004-1061 | Sequence 1061, Ap |
| 728 | 24 | 50.0 | 1935 | 9 | US-10-784-004-311 | Sequence 311, App |
| 729 | 24 | 50.0 | 1935 | 9 | US-10-784-004-329 | Sequence 329, App |
| 730 | 24 | 50.0 | 1935 | 9 | US-10-784-004-331 | Sequence 331, App |
| 731 | 24 | 50.0 | 1935 | 9 | US-10-784-004-440 | Sequence 440, App |
| 732 | 24 | 50.0 | 1935 | 9 | US-10-784-004-633 | Sequence 633, App |
| 733 | 24 | 50.0 | 1935 | 9 | US-10-784-004-650 | Sequence 650, App |
| 734 | 24 | 50.0 | 1935 | 9 | US-10-784-004-652 | Sequence 652, App |
| 735 | 24 | 50.0 | 1935 | 9 | US-10-784-004-757 | Sequence 757, App |
| 736 | 24 | 50.0 | 1935 | 9 | US-10-784-004-781 | Sequence 781, App |
| 737 | 24 | 50.0 | 1935 | 9 | US-10-784-004-899 | Sequence 899, App |
| 738 | 24 | 50.0 | 1935 | 9 | US-10-784-004-912 | Sequence 912, App |
| 739 | 24 | 50.0 | 1935 | 9 | US-10-784-004-914 | Sequence 914, App |
| 740 | 24 | 50.0 | 1935 | 9 | US-10-784-004-1040 | Sequence 1040, Ap |
| 741 | 24 | 50.0 | 1935 | 9 | US-10-784-004-1053 | Sequence 1053, Ap |
| 742 | 24 | 50.0 | 1935 | 9 | US-10-784-004-1055 | Sequence 1055, Ap |
| 743 | 24 | 50.0 | 1935 | 9 | US-10-784-004-1110 | Sequence 1110, Ap |
| 744 | 24 | 50.0 | 1935 | 9 | US-10-784-004-1166 | Sequence 1166, Ap |
| 745 | 24 | 50.0 | 1935 | 9 | US-10-784-004-1211 | Sequence 1211, Ap |
| 746 | 24 | 50.0 | 1938 | 9 | US-10-784-004-403 | Sequence 403, App |
| 747 | 24 | 50.0 | 1938 | 9 | US-10-784-004-458 | Sequence 458, App |
| 748 | 24 | 50.0 | 1938 | 9 | US-10-784-004-469 | Sequence 469, App |
| 749 | 24 | 50.0 | 2005 | 9 | US-10-784-004-660 | Sequence 660, App |
| 750 | 24 | 50.0 | 2005 | 9 | US-10-784-004-1059 | Sequence 1059, Ap |
| 751 | 24 | 50.0 | 2107 | 11 | US-11-285-818-8 | Sequence 8, Appli |
| 752 | 24 | 50.0 | 2144 | 11 | US-11-043-889-2 | Sequence 2, Appli |
| 753 | 24 | 50.0 | 2311 | 9 | US-10-469-469-54 | Sequence 54, Appl |
| 754 | 24 | 50.0 | 2376 | 11 | US-11-188-298-9871 | Sequence 9871, Ap |
| 755 | 24 | 50.0 | 2472 | 11 | US-11-203-806A-2 | Sequence 2, Appli |
| 756 | 24 | 50.0 | 2531 | 11 | US-11-124-367A-467 | Sequence 467, App |
| 757 | 24 | 50.0 | 3012 | 11 | US-11-124-367A-465 | Sequence 465, App |
| 758 | 24 | 50.0 | 3144 | 11 | US-11-055-035-1 | Sequence 1, Appli |
| 759 | 24 | 50.0 | 3333 | 9 | US-10-766-317-4 | Sequence 4, Appli |
| 760 | 24 | 50.0 | 3387 | 9 | US-10-204-252-24 | Sequence 24, Appl |
| 761 | 24 | 50.0 | 3387 | 9 | US-10-204-252-26 | Sequence 26, Appl |
| 762 | 24 | 50.0 | 3390 | 9 | US-10-204-252-20 | Sequence 20, Appl |
| 763 | 24 | 50.0 | 3390 | 9 | US-10-204-252-22 | Sequence 22, Appl |
| 764 | 24 | 50.0 | 3392 | 9 | US-10-204-252-2 | Sequence 2, Appli |
| 765 | 24 | 50.0 | 3392 | 9 | US-10-204-252-4 | Sequence 4, Appli |
| 766 | 24 | 50.0 | 8746 | 11 | US-11-098-686-10232 | Sequence 10232, A |
| 767 | 23.5 | 49.0 | 208 | 9 | US-10-467-657-1940 | Sequence 1940, Ap |
| 768 | 23 | 47.9 | 6 | 9 | US-10-857-435A-512 | Sequence 512, App |
| 769 | 23 | 47.9 | 9 | 11 | US-11-136-079-191 | Sequence 191, App |
| 770 | 23 | 47.9 | 20 | 11 | US-11-139-041-390 | Sequence 390, App |
| 771 | 23 | 47.9 | 20 | 11 | US-11-139-041-391 | Sequence 391, App |
| 772 | 23 | 47.9 | 20 | 11 | US-11-139-041-392 | Sequence 392, App |
| 773 | 23 | 47.9 | 37 | 11 | US-11-004-399-942 | Sequence 942, App |
| 774 | 23 | 47.9 | 53 | 11 | US-11-096-568A-3720 | Sequence 3720, Ap |
| 775 | 23 | 47.9 | 61 | 7 | US-09-978-360A-643 | Sequence 643, App |
| 776 | 23 | 47.9 | 67 | 11 | US-11-096-568A-23706 | Sequence 23706, A |
| 777 | 23 | 47.9 | 67 | 11 | US-11-004-399-847 | Sequence 847, App |
| 778 | 23 | 47.9 | 79 | 11 | US-11-045-004-2421 | Sequence 2421, Ap |
| 779 | 23 | 47.9 | 82 | 11 | US-11-096-568A-3719 | Sequence 3719, Ap |
| 780 | 23 | 47.9 | 85 | 9 | US-10-467-657-9150 | Sequence 9150, Ap |
| 781 | 23 | 47.9 | 85 | 11 | US-11-172-740-2195 | Sequence 2195, Ap |
| 782 | 23 | 47.9 | 92 | 11 | US-11-096-568A-3718 | Sequence 3718, Ap |
| 783 | 23 | 47.9 | 95 | 11 | US-11-152-569-3 | Sequence 3, Appli |
| 784 | 23 | 47.9 | 96 | 11 | US-11-152-569-5 | Sequence 5, Appli |
| 785 | 23 | 47.9 | 107 | 11 | US-11-096-568A-23704 | Sequence 23704, A |
| 786 | 23 | 47.9 | 109 | 11 | US-11-096-568A-14350 | Sequence 14350, A |
| 787 | 23 | 47.9 | 109 | 11 | US-11-172-740-373 | Sequence 373, App |
| 788 | 23 | 47.9 | 110 | 11 | US-11-096-568A-14349 | Sequence 14349, A |
| 789 | 23 | 47.9 | 111 | 11 | US-11-096-568A-10581 | Sequence 10581, A |
| 790 | 23 | 47.9 | 111 | 11 | US-11-045-004-2574 | Sequence 2574, Ap |
| 791 | 23 | 47.9 | 112 | 9 | US-10-689-742-36 | Sequence 36, Appl |
| 792 | 23 | 47.9 | 114 | 11 | US-11-096-568A-20144 | Sequence 20144, A |
| 793 | 23 | 47.9 | 116 | 9 | US-10-467-657-5922 | Sequence 5922, Ap |
| 794 | 23 | 47.9 | 119 | 11 | US-11-096-568A-24863 | Sequence 24863, A |
| 795 | 23 | 47.9 | 121 | 11 | US-11-188-298-12838 | Sequence 12838, A |
| 796 | 23 | 47.9 | 132 | 11 | US-11-045-004-570 | Sequence 570, App |
| 797 | 23 | 47.9 | 133 | 9 | US-10-467-657-5098 | Sequence 5098, Ap |
| 798 | 23 | 47.9 | 136 | 11 | US-11-188-298-19163 | Sequence 19163, A |
| 799 | 23 | 47.9 | 137 | 11 | US-11-188-298-5643 | Sequence 5643, Ap |
| 800 | 23 | 47.9 | 137 | 11 | US-11-188-298-7739 | Sequence 7739, Ap |
| 801 | 23 | 47.9 | 137 | 11 | US-11-188-298-8867 | Sequence 8867, Ap |
| 802 | 23 | 47.9 | 137 | 11 | US-11-188-298-18961 | Sequence 18961, A |
| 803 | 23 | 47.9 | 138 | 11 | US-11-080-991-12 | Sequence 12, Appl |
| 804 | 23 | 47.9 | 138 | 11 | US-11-072-512-3248 | Sequence 3248, Ap |
| 805 | 23 | 47.9 | 141 | 11 | US-11-188-298-10260 | Sequence 10260, A |
| 806 | 23 | 47.9 | 142 | 11 | US-11-264-096-2178 | Sequence 2178, Ap |
| 807 | 23 | 47.9 | 143 | 11 | US-11-096-568A-25947 | Sequence 25947, A |
| 808 | 23 | 47.9 | 147 | 11 | US-11-188-298-17883 | Sequence 17883, A |
| 809 | 23 | 47.9 | 148 | 9 | US-10-467-657-6480 | Sequence 6480, Ap |
| 810 | 23 | 47.9 | 149 | 11 | US-11-079-463-7589 | Sequence 7589, Ap |
| 811 | 23 | 47.9 | 150 | 9 | US-10-467-657-5846 | Sequence 5846, Ap |
| 812 | 23 | 47.9 | 151 | 11 | US-11-096-568A-32573 | Sequence 32573, A |
| 813 | 23 | 47.9 | 152 | 11 | US-11-264-096-2150 | Sequence 2150, Ap |
| 814 | 23 | 47.9 | 154 | 11 | US-11-096-568A-27472 | Sequence 27472, A |
| 815 | 23 | 47.9 | 156 | 9 | US-10-793-626-1870 | Sequence 1870, Ap |
| 816 | 23 | 47.9 | 156 | 11 | US-11-188-298-11738 | Sequence 11738, A |
| 817 | 23 | 47.9 | 158 | 11 | US-11-166-609-4 | Sequence 4, Appli |
| 818 | 23 | 47.9 | 158 | 11 | US-11-087-099-3151 | Sequence 3151, Ap |
| 819 | 23 | 47.9 | 158 | 11 | US-11-097-292-2 | Sequence 2, Appli |
| 820 | 23 | 47.9 | 158 | 11 | US-11-097-292-14 | Sequence 14, Appl |
| 821 | 23 | 47.9 | 159 | 11 | US-11-096-568A-6712 | Sequence 6712, Ap |
| 822 | 23 | 47.9 | 159 | 11 | US-11-096-568A-27883 | Sequence 27883, A |
| 823 | 23 | 47.9 | 164 | 8 | US-10-505-928-706 | Sequence 706, App |
| 824 | 23 | 47.9 | 164 | 8 | US-10-511-814-4 | Sequence 4, Appli |

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| 825 | 23 | 47.9 | 164 | 10 | US-11-242-111-26 | Sequence 26, Appl |
| 826 | 23 | 47.9 | 164 | 11 | US-11-087-227-18 | Sequence 18, Appl |
| 827 | 23 | 47.9 | 164 | 11 | US-11-087-227-20 | Sequence 20, Appl |
| 828 | 23 | 47.9 | 165 | 11 | US-11-128-059-26 | Sequence 26, Appl |
| 829 | 23 | 47.9 | 165 | 11 | US-11-096-568A-14281 | Sequence 14281, A |
| 830 | 23 | 47.9 | 165 | 11 | US-11-096-568A-23421 | Sequence 23421, A |
| 831 | 23 | 47.9 | 167 | 9 | US-10-821-234-1589 | Sequence 1589, Ap |
| 832 | 23 | 47.9 | 168 | 11 | US-11-087-099-10764 | Sequence 10764, A |
| 833 | 23 | 47.9 | 171 | 11 | US-11-096-568A-10579 | Sequence 10579, A |
| 834 | 23 | 47.9 | 171 | 11 | US-11-096-568A-32572 | Sequence 32572, A |
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| 968 | 23 | 47.9 | 321 | 8 | US-10-510-325-8 | Sequence 8, Appli |
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| 975 | 23 | 47.9 | 331 | 11 | US-11-096-568A-18633 | Sequence 18633, A |
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| 987 | 23 | 47.9 | 336 | 11 | US-11-096-568A-5652 | Sequence 5652, Ap |
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| 997 | 23 | 47.9 | 343 | 11 | US-11-188-298-9040 | Sequence 9040, Ap |
| 998 | 23 | 47.9 | 344 | 11 | US-11-096-568A-19478 | Sequence 19478, A |
| 999 | 23 | 47.9 | 345 | 11 | US-11-055-822-1028 | Sequence 1028, Ap |
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ALIGNMENTS

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; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
;  APPLICANT: HealthBanks Biotech CO. LTD.
;  TITLE OF INVENTION: Fusion protein for inhibiting cervcal cancer
;  FILE REFERENCE: P7819/0613
;  CURRENT APPLICATION NUMBER: US/11/206,138
;  CURRENT FILING DATE:  2005-08-18
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-11-206-138-3

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Db          1 MHQKRTAMF 9


RESULT 2
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
;  APPLICANT: PANG, XIAOWU
;  TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
;  TITLE OF INVENTION:  RECOMBINANT REPLICON
;  FILE REFERENCE: 116620-003
;  CURRENT APPLICATION NUMBER: US/11/192,923A
;  CURRENT FILING DATE:  2005-07-29
;  PRIOR APPLICATION NUMBER: CN 03115272.4
;  PRIOR FILING DATE: 2003-01-30
;  PRIOR APPLICATION NUMBER: CN 03115273.2
;  PRIOR FILING DATE: 2003-01-30
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
;   LENGTH: 256
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-11-192-923A-2

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Db         99 MHQKRTAMF 107


RESULT 3
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; Sequence 7375, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 7375
;   LENGTH: 361
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(361)
;   OTHER INFORMATION: Ceres Seq. ID no. 15171504
US-11-096-568A-7375

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Db        310 HRKKTAVF 317


RESULT 4
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; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
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;   LENGTH: 362
;   TYPE: PRT
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;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(362)
;   OTHER INFORMATION: Ceres Seq. ID no. 15171503
US-11-096-568A-7374
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; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
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;   LENGTH: 363
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(363)
;   OTHER INFORMATION: Ceres Seq. ID no. 15171502
US-11-096-568A-7373

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RESULT 6
US-10-467-657-2678
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; Publication No. US20050260581A1
; GENERAL INFORMATION:
;  APPLICANT: CHIRON SpA
;  APPLICANT: FONTANA Maria Rita
;  APPLICANT: PIZZA Mariagrazia
;  APPLICANT: MASIGNANI Vega
;  APPLICANT: MONACI Elisabetta
;  TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
;  FILE REFERENCE:
;  CURRENT APPLICATION NUMBER: US/10/467,657
;  CURRENT FILING DATE:  2003-08-11
;  PRIOR APPLICATION NUMBER: GB-0103424.8
;  PRIOR FILING DATE: 2001-02-12
;  NUMBER OF SEQ ID NOS: 9218
;  SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 2678
;   LENGTH: 424
;   TYPE: PRT
;   ORGANISM: Neisseria gonorrhoeae
US-10-467-657-2678

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Qy          3 QKRTAMF 9
              |||||:|
Db        329 QKRTAVF 335


RESULT 7
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; Publication No. US20050260581A1
; GENERAL INFORMATION:
;  APPLICANT: CHIRON SpA
;  APPLICANT: FONTANA Maria Rita
;  APPLICANT: PIZZA Mariagrazia
;  APPLICANT: MASIGNANI Vega
;  APPLICANT: MONACI Elisabetta
;  TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
;  FILE REFERENCE:
;  CURRENT APPLICATION NUMBER: US/10/467,657
;  CURRENT FILING DATE:  2003-08-11
;  PRIOR APPLICATION NUMBER: GB-0103424.8
;  PRIOR FILING DATE: 2001-02-12
;  NUMBER OF SEQ ID NOS: 9218
;  SOFTWARE: SeqWin99, version 1.04
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US-10-467-657-6954

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  Best Local Similarity   55.6%;  Pred. No. 53;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              :||: ||:|
Db        144 IHQELTALF 152


RESULT 8
US-11-079-463-6326
; Sequence 6326, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRAC
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PATH00-03DIV2
;  CURRENT APPLICATION NUMBER: US/11/079,463
;  CURRENT FILING DATE:  2005-03-14
;  PRIOR APPLICATION NUMBER: US 60/128,705
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/540,209
;  PRIOR FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 6326
;   LENGTH: 280
;   TYPE: PRT
;   ORGANISM: B.fragilis
US-11-079-463-6326

  Query Match             62.5%;  Score 30;  DB 11;  Length 280;
  Best Local Similarity   44.4%;  Pred. No. 70;
  Matches    4;  Conservative    5;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              :|::||::|
Db         96 LHRERTSIF 104


RESULT 9
US-11-188-298-8493
; Sequence 8493, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
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;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 8493
;   LENGTH: 328
;   TYPE: PRT
;   ORGANISM: Burkholderia fungorum
US-11-188-298-8493

  Query Match             62.5%;  Score 30;  DB 11;  Length 328;
  Best Local Similarity   83.3%;  Pred. No. 82;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MHQKRT 6
              :|||||
Db        182 LHQKRT 187


RESULT 10
US-11-087-099-11215
; Sequence 11215, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 11215
;   LENGTH: 900
;   TYPE: PRT
;   ORGANISM: Gnetum gnemon
US-11-087-099-11215

  Query Match             62.5%;  Score 30;  DB 11;  Length 900;
  Best Local Similarity   62.5%;  Pred. No. 2.4e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAM 8
              ||:||| :
Db        472 MHKKRTRL 479


RESULT 11
US-10-505-928-559
; Sequence 559, Application US/10505928
; Publication No. US20060088532A1
; GENERAL INFORMATION:
;  APPLICANT: Ludwig Institute for Cancer Research et al.
;  TITLE OF INVENTION: LYMPHATIC ENDOTHELIAL GENES
;  FILE REFERENCE: 28967/39178
;  CURRENT APPLICATION NUMBER: US/10/505,928
;  CURRENT FILING DATE:  2004-08-27
;  PRIOR APPLICATION NUMBER: US 60/363,019
;  PRIOR FILING DATE: 2002-03-07
;  NUMBER OF SEQ ID NOS: 866
;  SOFTWARE: PatentIn 3.2
; SEQ ID NO 559
;   LENGTH: 238
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-505-928-559

  Query Match             60.4%;  Score 29;  DB 8;  Length 238;
  Best Local Similarity   55.6%;  Pred. No. 96;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              :||:||  |
Db        100 VHQERTLAF 108


RESULT 12
US-10-995-561-951
; Sequence 951, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
;  APPLICANT: CARGILL, Michele et al.
;  TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
;  TITLE OF INVENTION:  CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
;  TITLE OF INVENTION:  DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001559
;  CURRENT APPLICATION NUMBER: US/10/995,561
;  CURRENT FILING DATE:  2004-11-24
;  NUMBER OF SEQ ID NOS: 85702
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 951
;   LENGTH: 238
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-995-561-951

  Query Match             60.4%;  Score 29;  DB 9;  Length 238;
  Best Local Similarity   55.6%;  Pred. No. 96;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              :||:||  |
Db        100 VHQERTLAF 108


RESULT 13
US-10-821-234-919
; Sequence 919, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
;  APPLICANT: Labat, Ivan
;  APPLICANT:  Stache-Crain, Birgit
;  APPLICANT:  Andarmani, Susan
;  APPLICANT:  Tang, Y. Tom
;  TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
;  FILE REFERENCE: 821A
;  CURRENT APPLICATION NUMBER: US/10/821,234
;  CURRENT FILING DATE:  2004-04-07
;  PRIOR APPLICATION NUMBER: US 60/462,047
;  PRIOR FILING DATE: 2003-04-07
;  NUMBER OF SEQ ID NOS: 1704
;  SOFTWARE: pt_SEQ_genes Version 1.0
; SEQ ID NO 919
;   LENGTH: 260
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-821-234-919

  Query Match             60.4%;  Score 29;  DB 9;  Length 260;
  Best Local Similarity   55.6%;  Pred. No. 1e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              :||:||  |
Db        122 VHQERTLAF 130


RESULT 14
US-10-995-561-950
; Sequence 950, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
;  APPLICANT: CARGILL, Michele et al.
;  TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
;  TITLE OF INVENTION:  CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
;  TITLE OF INVENTION:  DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001559
```

```
;  CURRENT APPLICATION NUMBER: US/10/995,561
;  CURRENT FILING DATE:  2004-11-24
;  NUMBER OF SEQ ID NOS: 85702
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 950
;   LENGTH: 275
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-995-561-950

  Query Match             60.4%;  Score 29;  DB 9;  Length 275;
  Best Local Similarity   55.6%;  Pred. No. 1.1e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAMF 9
              :||:||  |
Db        137 VHQERTLAF 145


RESULT 15
US-11-054-281-68
; Sequence 68, Application US/11054281
; Publication No. US20060013813A1
; GENERAL INFORMATION:
;  APPLICANT: Mezes et al.
;  TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
;  FILE REFERENCE: 21402-240CIP
;  CURRENT APPLICATION NUMBER: US/11/054,281
;  CURRENT FILING DATE:  2005-02-08
;  PRIOR APPLICATION NUMBER: 60/261,014
;  PRIOR FILING DATE: 2001-01-11
;  PRIOR APPLICATION NUMBER: 60/261,018
;  PRIOR FILING DATE: 2001-01-11
;  PRIOR APPLICATION NUMBER: 60/318,410
;  PRIOR FILING DATE: 2001-09-10
;  PRIOR APPLICATION NUMBER: 60/261,013
;  PRIOR FILING DATE: 2001-01-11
;  PRIOR APPLICATION NUMBER: 60/261,026
;  PRIOR FILING DATE: 2001-01-11
;  PRIOR APPLICATION NUMBER: 60/261,029
;  PRIOR FILING DATE: 2001-01-11
;  PRIOR APPLICATION NUMBER: 60/313,170
;  PRIOR FILING DATE: 2001-08-17
;  PRIOR APPLICATION NUMBER: 10/044,564
;  PRIOR FILING DATE: 2002-01-11
;  NUMBER OF SEQ ID NOS: 324
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 68
;   LENGTH: 374
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-281-68

  Query Match             60.4%;  Score 29;  DB 11;  Length 374;
  Best Local Similarity   62.5%;  Pred. No. 1.5e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAM 8
              :|  ||||
Db          9 LHMNRTAM 16


RESULT 16
US-11-054-281-66
; Sequence 66, Application US/11054281
; Publication No. US20060013813A1
; GENERAL INFORMATION:
;  APPLICANT: Mezes et al.
;  TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
;  FILE REFERENCE: 21402-240CIP
;  CURRENT APPLICATION NUMBER: US/11/054,281
;  CURRENT FILING DATE:  2005-02-08
;  PRIOR APPLICATION NUMBER: 60/261,014
;  PRIOR FILING DATE: 2001-01-11
;  PRIOR APPLICATION NUMBER: 60/261,018
;  PRIOR FILING DATE: 2001-01-11
;  PRIOR APPLICATION NUMBER: 60/318,410
;  PRIOR FILING DATE: 2001-09-10
;  PRIOR APPLICATION NUMBER: 60/261,013
;  PRIOR FILING DATE: 2001-01-11
;  PRIOR APPLICATION NUMBER: 60/261,026
;  PRIOR FILING DATE: 2001-01-11
;  PRIOR APPLICATION NUMBER: 60/261,029
;  PRIOR FILING DATE: 2001-01-11
;  PRIOR APPLICATION NUMBER: 60/313,170
;  PRIOR FILING DATE: 2001-08-17
;  PRIOR APPLICATION NUMBER: 10/044,564
;  PRIOR FILING DATE: 2002-01-11
;  NUMBER OF SEQ ID NOS: 324
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 66
;   LENGTH: 394
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-281-66

  Query Match             60.4%;  Score 29;  DB 11;  Length 394;
  Best Local Similarity   62.5%;  Pred. No. 1.6e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAM 8
              :|  ||||
Db         29 LHMNRTAM 36


RESULT 17
US-11-054-281-67
; Sequence 67, Application US/11054281
; Publication No. US20060013813A1
; GENERAL INFORMATION:
;  APPLICANT: Mezes et al.
;  TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
;  FILE REFERENCE: 21402-240CIP
;  CURRENT APPLICATION NUMBER: US/11/054,281
;  CURRENT FILING DATE:  2005-02-08
;  PRIOR APPLICATION NUMBER: 60/261,014
;  PRIOR FILING DATE: 2001-01-11
;  PRIOR APPLICATION NUMBER: 60/261,018
;  PRIOR FILING DATE: 2001-01-11
;  PRIOR APPLICATION NUMBER: 60/318,410
;  PRIOR FILING DATE: 2001-09-10
;  PRIOR APPLICATION NUMBER: 60/261,013
;  PRIOR FILING DATE: 2001-01-11
;  PRIOR APPLICATION NUMBER: 60/261,026
;  PRIOR FILING DATE: 2001-01-11
;  PRIOR APPLICATION NUMBER: 60/261,029
;  PRIOR FILING DATE: 2001-01-11
;  PRIOR APPLICATION NUMBER: 60/313,170
;  PRIOR FILING DATE: 2001-08-17
;  PRIOR APPLICATION NUMBER: 10/044,564
;  PRIOR FILING DATE: 2002-01-11
;  NUMBER OF SEQ ID NOS: 324
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 67
;   LENGTH: 394
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-281-67

  Query Match             60.4%;  Score 29;  DB 11;  Length 394;
  Best Local Similarity   62.5%;  Pred. No. 1.6e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAM 8
              :|  ||||
Db         29 LHMNRTAM 36
```

```
RESULT 18
US-11-098-686-10684
; Sequence 10684, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
;  APPLICANT: Kapur, Vivek and Gebhart, Connie J.
;  TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
;  TITLE OF INVENTION:  FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
;  FILE REFERENCE: 09531-128001
;  CURRENT APPLICATION NUMBER: US/11/098,686
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31318
;  PRIOR FILING DATE: 2003-10-01
;  PRIOR APPLICATION NUMBER: US 60/416,395
;  PRIOR FILING DATE: 2002-10-04
;  NUMBER OF SEQ ID NOS: 11433
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10684
;   LENGTH: 418
;   TYPE: PRT
;   ORGANISM: Lawsonia intracellularis
US-11-098-686-10684

  Query Match             60.4%;  Score 29;  DB 11;  Length 418;
  Best Local Similarity   85.7%;  Pred. No. 1.7e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 QKRTAMF 9
              ||| |||
Db        221 QKRPAMF 227


RESULT 19
US-11-087-099-5899
; Sequence 5899, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 5899
;   LENGTH: 426
;   TYPE: PRT
;   ORGANISM: Ralstonia solanacearum
US-11-087-099-5899

  Query Match             60.4%;  Score 29;  DB 11;  Length 426;
  Best Local Similarity   62.5%;  Pred. No. 1.8e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 HQKRTAMF 9
              | |:|| |
Db        106 HAKKTAFF 113


RESULT 20
US-11-188-298-6127
; Sequence 6127, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 6127
;   LENGTH: 441
;   TYPE: PRT
;   ORGANISM: Cryptococcus neoformans var. neoformans
US-11-188-298-6127

  Query Match             60.4%;  Score 29;  DB 11;  Length 441;
  Best Local Similarity   83.3%;  Pred. No. 1.8e+02;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 HQKRTA 7
              |:||||
Db        399 HEKRTA 404


RESULT 21
US-10-644-807-216
; Sequence 216, Application US/10644807
; Publication No. US20060057582A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: 83 Human Secreted Proteins
;  FILE REFERENCE: PS735
;  CURRENT APPLICATION NUMBER: US/10/644,807
;  CURRENT FILING DATE:  2003-08-21
;  PRIOR APPLICATION NUMBER: PCT/US02/05064
;  PRIOR FILING DATE: 2002-02-21
;  PRIOR APPLICATION NUMBER: 60/270,658
;  PRIOR FILING DATE: 2001-02-23
;  PRIOR APPLICATION NUMBER: 60/304,444
;  PRIOR FILING DATE: 2001-07-12
;  NUMBER OF SEQ ID NOS: 445
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 216
;   LENGTH: 459
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-644-807-216

  Query Match             60.4%;  Score 29;  DB 9;  Length 459;
  Best Local Similarity   62.5%;  Pred. No. 1.9e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HQKRTAMF 9
              |: |||:|
Db        244 HKGRTALF 251


RESULT 22
US-11-072-512-2553
; Sequence 2553, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
;  APPLICANT: ISOGAI, TAKAO
;  APPLICANT:  SUGIYAMA, TOMOYASU
;  APPLICANT:  OTSUKI, TETSUJI
;  APPLICANT:  WAKAMATSU, AI
;  APPLICANT:  SATO, HIROYUKI
;  APPLICANT:  ISHII, SHIZUKO
;  APPLICANT:  YAMAMOTO, JUN-ICHI
;  APPLICANT:  ISONO, YUUKO
;  APPLICANT:  HIO, YURI
;  APPLICANT:  OTSUKA, KAORU
;  APPLICANT:  NAGAI, KEIICHI
;  APPLICANT:  IRIE, RYOTARO
;  APPLICANT:  TAMECHIKA, ICHIRO
;  APPLICANT:  SEKI, NAOHIKO
;  APPLICANT:  YOSHIKAWA, TSUTOMU
;  APPLICANT:  OTSUKA, MOTOYUKI
;  APPLICANT:  NAGAHARI, KENJI
;  APPLICANT:  MASUHO, YASUHIKO
;  TITLE OF INVENTION: Novel full length cDNA
;  FILE REFERENCE: 084335-0191
```

; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2553
; LENGTH: 505
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-2553

Query Match 60.4%; Score 29; DB 11; Length 505;
Best Local Similarity 62.5%; Pred. No. 2.1e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 HQKRTAMF 9
|: |||:|
Db 45 HKGRTALF 52

RESULT 23
US-11-165-226-126
; Sequence 126, Application US/11165226
; Publication No. US20050287627A1
; GENERAL INFORMATION:
; APPLICANT: KYOWA HAKKO KOGYO CO., LTD.
; TITLE OF INVENTION: Process for producing dipeptides or dipeptide derivatives
; FILE REFERENCE: 4093-13
; CURRENT APPLICATION NUMBER: US/11/165,226
; CURRENT FILING DATE: 2005-06-24
; PRIOR APPLICATION NUMBER: JP2004-189007
; PRIOR FILING DATE: 2004-06-25
; NUMBER OF SEQ ID NOS: 131
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 126
; LENGTH: 544
; TYPE: PRT
; ORGANISM: Chloroflexus aurantiacus ATCC29366
US-11-165-226-126

Query Match 60.4%; Score 29; DB 11; Length 544;
Best Local Similarity 62.5%; Pred. No. 2.3e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 2 HQKRTAMF 9
|||| :|
Db 340 HQKRPVVF 347

RESULT 24
US-11-188-298-17857
; Sequence 17857, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 17857
; LENGTH: 561
; TYPE: PRT
; ORGANISM: Brucella suis 1330
US-11-188-298-17857

Query Match 60.4%; Score 29; DB 11; Length 561;
Best Local Similarity 83.3%; Pred. No. 2.3e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MHQKRT 6
|||:||
Db 478 MHQERT 483

RESULT 25
US-11-188-298-16403
; Sequence 16403, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 16403
; LENGTH: 564
; TYPE: PRT
; ORGANISM: Brucella melitensis 16M
US-11-188-298-16403

Query Match 60.4%; Score 29; DB 11; Length 564;
Best Local Similarity 83.3%; Pred. No. 2.4e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MHQKRT 6
|||:||
Db 481 MHQERT 486

RESULT 26
US-10-467-657-2008
; Sequence 2008, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SpA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 2008
; LENGTH: 680
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-2008

Query Match 60.4%; Score 29; DB 9; Length 680;
Best Local Similarity 71.4%; Pred. No. 2.9e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 HQKRTAM 8
|||:||:
Db 99 HQKQTAV 105

RESULT 27
US-10-055-877-6
; Sequence 6, Application US/10055877
; Publication No. US20050288241A1
; GENERAL INFORMATION:

```
;  APPLICANT: DeCristofaro, Marc
;  APPLICANT:  Padigaru, Muralidhara
;  APPLICANT:  Miller, Charles
;  APPLICANT:  Tchernev, Velizar
;  APPLICANT:  Zhong, Mei
;  APPLICANT:  Anderson, David
;  APPLICANT:  Ballinger, Robert
;  APPLICANT:  Gerlach, Valerie
;  APPLICANT:  Spytek, Kimberly
;  APPLICANT:  Ratelli, Luca
;  APPLICANT:  Kekuda, Ramesh
;  APPLICANT:  Guo, Xiaojia
;  APPLICANT:  Zerhusen, Bryan
;  APPLICANT:  Andrew, David
;  APPLICANT:  Mezes, Peter
;  APPLICANT:  Patturajan, Meera
;  APPLICANT:  Burgess, Cahterine
;  APPLICANT:  Eisen, Andrew
;  APPLICANT:  Wolenc, Adam
;  APPLICANT:  Baumgartner, Jason
;  APPLICANT:  Shimkets, Richard
;  APPLICANT:  Gusev, Vladimir
;  APPLICANT:  Vernet, Corine
;  APPLICANT:  Taupier Jr., Raymond
;  APPLICANT:  Pena, Carol
;  APPLICANT:  Shenoy, Suresh
;  APPLICANT:  Li, Li
;  APPLICANT:  Casman, Stacie
;  APPLICANT:  Boldog, Ference
;  TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoded Thereby
;  FILE REFERENCE: 21402-251
;  CURRENT APPLICATION NUMBER: US/10/055,877
;  CURRENT FILING DATE:  2002-01-22
;  PRIOR APPLICATION NUMBER: 60/262,892
;  PRIOR FILING DATE: 2001-01-19
;  PRIOR APPLICATION NUMBER: 60/263,598
;  PRIOR FILING DATE: 2001-01-23
;  PRIOR APPLICATION NUMBER: 60/263,799
;  PRIOR FILING DATE: 2001-01-24
;  PRIOR APPLICATION NUMBER: 60/264,117
;  PRIOR FILING DATE: 2001-01-25
;  PRIOR APPLICATION NUMBER: 60/264,139
;  PRIOR FILING DATE: 2001-01-25
;  PRIOR APPLICATION NUMBER: 60/264,478
;  PRIOR FILING DATE: 2001-01-26
;  PRIOR APPLICATION NUMBER: 60/263,351
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: 60/272,870
;  PRIOR FILING DATE: 2001-03-02
;  PRIOR APPLICATION NUMBER: 60/275,990
;  PRIOR FILING DATE: 2001-03-14
;  PRIOR APPLICATION NUMBER: 60/275,927
;  PRIOR FILING DATE: 2001-03-14
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 512
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
;   LENGTH: 993
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-055-877-6

  Query Match             60.4%;  Score 29;  DB 9;  Length 993;
  Best Local Similarity   62.5%;  Pred. No. 4.2e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HQKRTAMF 9
              |: |||:|
Db        592 HKGRTALF 599


RESULT 28
US-11-285-818-12
```

```
; Sequence 12, Application US/11285818
; Publication No. US20060074023A1
; GENERAL INFORMATION:
;  APPLICANT: RASTELLI, LUCA
;  APPLICANT:  GERRITSEN, MARY
;  TITLE OF INVENTION: ANGIOGENESIS ASSOCIATED PROTEINS AND NUCLEIC ACIDS
;  TITLE OF INVENTION:  ENCODING THE SAME
;  FILE REFERENCE: 10716/35
;  CURRENT APPLICATION NUMBER: US/11/285,818
;  CURRENT FILING DATE:  2005-11-22
;  PRIOR APPLICATION NUMBER: US/09/815,379
;  PRIOR FILING DATE: 2001-03-22
;  PRIOR APPLICATION NUMBER: 60/191,134
;  PRIOR FILING DATE: 2000-03-22
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
;   LENGTH: 2048
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-285-818-12

  Query Match             60.4%;  Score 29;  DB 11;  Length 2048;
  Best Local Similarity   85.7%;  Pred. No. 9e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HQKRTAM 8
              ||| |||
Db         48 HQKVTAM 54


RESULT 29
US-11-285-818-10
; Sequence 10, Application US/11285818
; Publication No. US20060074023A1
; GENERAL INFORMATION:
;  APPLICANT: RASTELLI, LUCA
;  APPLICANT:  GERRITSEN, MARY
;  TITLE OF INVENTION: ANGIOGENESIS ASSOCIATED PROTEINS AND NUCLEIC ACIDS
;  TITLE OF INVENTION:  ENCODING THE SAME
;  FILE REFERENCE: 10716/35
;  CURRENT APPLICATION NUMBER: US/11/285,818
;  CURRENT FILING DATE:  2005-11-22
;  PRIOR APPLICATION NUMBER: US/09/815,379
;  PRIOR FILING DATE: 2001-03-22
;  PRIOR APPLICATION NUMBER: 60/191,134
;  PRIOR FILING DATE: 2000-03-22
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
;   LENGTH: 2057
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-285-818-10

  Query Match             60.4%;  Score 29;  DB 11;  Length 2057;
  Best Local Similarity   85.7%;  Pred. No. 9.1e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HQKRTAM 8
              ||| |||
Db         48 HQKVTAM 54


RESULT 30
US-11-072-175-188
; Sequence 188, Application US/11072175
; Publication No. US20060029944A1
; GENERAL INFORMATION:
;  APPLICANT: Bristol-Myers Squibb Company
;  TITLE OF INVENTION: IDENTIFICATION OF GENES FOR PREDICTING ACTIVITY OF COMPOUNDS THAT
;  TITLE OF INVENTION:  INTERACT WITH AND/OR MODULATE PROTEIN TYROSINE KINASES AND/OR
;  TITLE OF INVENTION:  PROTEIN TYROSINE KINASE PATHWAYS IN BREAST CELLS
```

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;  FILE REFERENCE: D0273A CIP
;  CURRENT APPLICATION NUMBER: US/11/072,175
;  CURRENT FILING DATE:  2005-03-05
;  PRIOR APPLICATION NUMBER: US 60/406,385
;  PRIOR FILING DATE: 2002-08-27
;  PRIOR APPLICATION NUMBER: US 10/648,593
;  PRIOR FILING DATE: 2003-08-26
;  NUMBER OF SEQ ID NOS: 571
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 188
;   LENGTH: 2058
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-072-175-188

  Query Match             60.4%;  Score 29;  DB 11;  Length 2058;
  Best Local Similarity   85.7%;  Pred. No. 9.1e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HQKRTAM 8
              ||| |||
Db         51 HQKVTAM 57


RESULT 31
US-11-285-818-17
; Sequence 17, Application US/11285818
; Publication No. US20060074023A1
; GENERAL INFORMATION:
;  APPLICANT: RASTELLI, LUCA
;  APPLICANT:  GERRITSEN, MARY
;  TITLE OF INVENTION: ANGIOGENESIS ASSOCIATED PROTEINS AND NUCLEIC ACIDS
;  TITLE OF INVENTION:  ENCODING THE SAME
;  FILE REFERENCE: 10716/35
;  CURRENT APPLICATION NUMBER: US/11/285,818
;  CURRENT FILING DATE:  2005-11-22
;  PRIOR APPLICATION NUMBER: US/09/815,379
;  PRIOR FILING DATE: 2001-03-22
;  PRIOR APPLICATION NUMBER: 60/191,134
;  PRIOR FILING DATE: 2000-03-22
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 17
;   LENGTH: 2058
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-285-818-17

  Query Match             60.4%;  Score 29;  DB 11;  Length 2058;
  Best Local Similarity   85.7%;  Pred. No. 9.1e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HQKRTAM 8
              ||| |||
Db         51 HQKVTAM 57


RESULT 32
US-10-467-657-8708
; Sequence 8708, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
;  APPLICANT: CHIRON SpA
;  APPLICANT: FONTANA Maria Rita
;  APPLICANT: PIZZA Mariagrazia
;  APPLICANT: MASIGNANI Vega
;  APPLICANT: MONACI Elisabetta
;  TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
;  FILE REFERENCE:
;  CURRENT APPLICATION NUMBER: US/10/467,657
;  CURRENT FILING DATE:  2003-08-11
;  PRIOR APPLICATION NUMBER: GB-0103424.8
;  PRIOR FILING DATE: 2001-02-12
;  NUMBER OF SEQ ID NOS: 9218
;  SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 8708
;   LENGTH: 79
;   TYPE: PRT
;   ORGANISM: Neisseria gonorrhoeae
US-10-467-657-8708

  Query Match             58.3%;  Score 28;  DB 9;  Length 79;
  Best Local Similarity   71.4%;  Pred. No. 49;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 QKRTAMF 9
              |:|||:|
Db         54 QRRTAVF 60


RESULT 33
US-11-096-568A-4639
; Sequence 4639, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 4639
;   LENGTH: 233
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(233)
;   OTHER INFORMATION: Ceres Seq. ID no. 14302760
US-11-096-568A-4639

  Query Match             58.3%;  Score 28;  DB 11;  Length 233;
  Best Local Similarity   50.0%;  Pred. No. 1.5e+02;
  Matches    4;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAM 8
              || |:|::
Db         28 MHMKKTSL 35


RESULT 34
US-10-512-512-15
; Sequence 15, Application US/10512512
; Publication No. US20060019884A1
; GENERAL INFORMATION:
;  APPLICANT: Pepsyn Limited
;  TITLE OF INVENTION: Cosmetic Composition
;  FILE REFERENCE: Sequencelisting300503
;  CURRENT APPLICATION NUMBER: US/10/512,512
;  CURRENT FILING DATE:  2004-10-25
;  PRIOR APPLICATION NUMBER: GB 0209384.7
;  PRIOR FILING DATE: 2002-04-24
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
;   LENGTH: 235
;   TYPE: PRT
;   ORGANISM: Sus sp.
;   FEATURE:
;   NAME/KEY: PROPEP
;   LOCATION: (1)..(235)
;   OTHER INFORMATION: Amino acid sequence of pig alpha-S2 casein
;   OTHER INFORMATION: precursor.
US-10-512-512-15
```

```
  Query Match             58.3%;  Score 28;  DB 9;  Length 235;
  Best Local Similarity   62.5%;  Pred. No. 1.5e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAM 8
              :|||: ||
Db        208 VHQKQKAM 215


RESULT 35
US-11-096-568A-11088
; Sequence 11088, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 11088
;   LENGTH: 324
;   TYPE: PRT
;   ORGANISM: Triticum aestivum
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(324)
;   OTHER INFORMATION: Ceres Seq. ID no. 15222208
US-11-096-568A-11088

  Query Match             58.3%;  Score 28;  DB 11;  Length 324;
  Best Local Similarity   100.0%;  Pred. No. 2.1e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MHQKR 5
              |||||
Db        174 MHQKR 178


RESULT 36
US-11-096-568A-4638
; Sequence 4638, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 4638
;   LENGTH: 330
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(330)
;   OTHER INFORMATION: Ceres Seq. ID no. 14302759
US-11-096-568A-4638

  Query Match             58.3%;  Score 28;  DB 11;  Length 330;
  Best Local Similarity   50.0%;  Pred. No. 2.2e+02;
  Matches    4;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAM 8
              || |:|::
Db        125 MHMKKTSL 132


RESULT 37
US-11-096-568A-4637
; Sequence 4637, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 4637
;   LENGTH: 342
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(342)
;   OTHER INFORMATION: Ceres Seq. ID no. 14302758
US-11-096-568A-4637

  Query Match             58.3%;  Score 28;  DB 11;  Length 342;
  Best Local Similarity   50.0%;  Pred. No. 2.3e+02;
  Matches    4;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 MHQKRTAM 8
              || |:|::
Db        137 MHMKKTSL 144


RESULT 38
US-11-055-822-516
; Sequence 516, Application US/11055822
; Publication No. US20050260707A1
; GENERAL INFORMATION:
;  APPLICANT: Pompejus, Markus
;  APPLICANT:  Kroger, Burkhard
;  APPLICANT:  Schroder, Hartwig
;  APPLICANT:  Zelder, Oskar
;  APPLICANT:  Haberhauer, Gregor
;  TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING
;  TITLE OF INVENTION:  METABOLIC PATHWAY PROTEINS
;  FILE REFERENCE: BGI-121CPCN
;  CURRENT APPLICATION NUMBER: US/11/055,822
;  CURRENT FILING DATE:  2005-02-11
;  PRIOR APPLICATION NUMBER: 09/606,740
;  PRIOR FILING DATE: 2000-06-23
;  PRIOR APPLICATION NUMBER: 60/141,031
;  PRIOR FILING DATE: 1999-06-25
;  PRIOR APPLICATION NUMBER: 60/142,101
;  PRIOR FILING DATE: 1999-07-02
;  PRIOR APPLICATION NUMBER: 60/148,613
;  PRIOR FILING DATE: 1999-08-12
;  PRIOR APPLICATION NUMBER: 60/187,970
;  PRIOR FILING DATE: 2000-03-09
;  PRIOR APPLICATION NUMBER: DE 19930476.9
;  PRIOR FILING DATE: 1999-07-01
;  PRIOR APPLICATION NUMBER: DE 19931415.2
;  PRIOR FILING DATE: 1999-07-08
;  PRIOR APPLICATION NUMBER: DE 19931418.7
;  PRIOR FILING DATE: 1999-07-08
;  PRIOR APPLICATION NUMBER: DE 19931419.5
;  PRIOR FILING DATE: 1999-07-08
;  PRIOR APPLICATION NUMBER: DE 19931420.9
;  PRIOR FILING DATE: 1999-07-08
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 1158
; SEQ ID NO 516
;   LENGTH: 344
;   TYPE: PRT
;   ORGANISM: Corynebacterium glutamicum
US-11-055-822-516

  Query Match             58.3%;  Score 28;  DB 11;  Length 344;
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  Best Local Similarity   50.0%;  Pred. No. 2.3e+02;
  Matches    4;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HQKRTAMF 9
              | |::|:|
Db        120 HDKKSALF 127


RESULT 39
US-10-330-773-921
; Sequence 921, Application US/10330773
; Publication No. US20060040262A1
; GENERAL INFORMATION:
;  APPLICANT: David W. Morris
;  APPLICANT:  Marc Malandro
;  TITLE OF INVENTION: Novel Compositions and Methods in Cancer
;  FILE REFERENCE: 529452001300
;  CURRENT APPLICATION NUMBER: US/10/330,773
;  CURRENT FILING DATE:  2002-12-27
;  NUMBER OF SEQ ID NOS: 981
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 921
;   LENGTH: 348
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-330-773-921

  Query Match             58.3%;  Score 28;  DB 9;  Length 348;
  Best Local Similarity   71.4%;  Pred. No. 2.3e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HQKRTAM 8
              |||| |:
Db        230 HQKRKAL 236


RESULT 40
US-11-028-922A-2
; Sequence 2, Application US/11028922A
; Publication No. US20050271639A1
; GENERAL INFORMATION:
;  APPLICANT: Penn, Marc
;  TITLE OF INVENTION: GENETICALLY ENGINEERED FOR THERAPEUTIC APPLICATIONS
;  FILE REFERENCE: CCP-7019
;  CURRENT APPLICATION NUMBER: US/11/028,922A
;  CURRENT FILING DATE:  2005-01-04
;  NUMBER OF SEQ ID NOS: 9
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2
;   LENGTH: 349
;   TYPE: PRT
;   ORGANISM: Rattus norvegicus
US-11-028-922A-2

  Query Match             58.3%;  Score 28;  DB 11;  Length 349;
  Best Local Similarity   71.4%;  Pred. No. 2.3e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HQKRTAM 8
              |||| |:
Db        229 HQKRKAL 235


RESULT 41
US-10-505-928-745
; Sequence 745, Application US/10505928
; Publication No. US20060088532A1
; GENERAL INFORMATION:
;  APPLICANT: Ludwig Institute for Cancer Research et al.
;  TITLE OF INVENTION: LYMPHATIC ENDOTHELIAL GENES
;  FILE REFERENCE: 28967/39178
;  CURRENT APPLICATION NUMBER: US/10/505,928
;  CURRENT FILING DATE:  2004-08-27
;  PRIOR APPLICATION NUMBER: US 60/363,019
;  PRIOR FILING DATE: 2002-03-07
;  NUMBER OF SEQ ID NOS: 866
;  SOFTWARE: PatentIn 3.2
; SEQ ID NO 745
;   LENGTH: 352
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-505-928-745

  Query Match             58.3%;  Score 28;  DB 8;  Length 352;
  Best Local Similarity   71.4%;  Pred. No. 2.3e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HQKRTAM 8
              |||| |:
Db        232 HQKRKAL 238


RESULT 42
US-10-511-937-2486
; Sequence 2486, Application US/10511937
; Publication No. US20060088836A1
; GENERAL INFORMATION:
;  APPLICANT: EXPRESSION DIAGNOSTICS, INC.
;  APPLICANT:  Wohlgemuth, Jay
;  APPLICANT:  Fry, Kirk
;  APPLICANT:  Woodward, Robert
;  APPLICANT:  Ly, Ngoc
;  APPLICANT:  Prentice, James
;  APPLICANT:  Morris, MacDonald
;  APPLICANT:  Rosenberg, Steven
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING
;  TITLE OF INVENTION:  AND MONITORING TRANSPLANT REJECTION
;  FILE REFERENCE: 506612000104
;  CURRENT APPLICATION NUMBER: US/10/511,937
;  CURRENT FILING DATE:  2004-10-19
;  PRIOR APPLICATION NUMBER: PCT/US2003/012946
;  PRIOR FILING DATE: 2003-04-24
;  PRIOR APPLICATION NUMBER: US 10/131,831
;  PRIOR FILING DATE: 2002-04-24
;  PRIOR APPLICATION NUMBER: US 10/325,899
;  PRIOR FILING DATE: 2002-12-20
;  NUMBER OF SEQ ID NOS: 3117
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2486
;   LENGTH: 352
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-511-937-2486

  Query Match             58.3%;  Score 28;  DB 8;  Length 352;
  Best Local Similarity   71.4%;  Pred. No. 2.3e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HQKRTAM 8
              |||| |:
Db        232 HQKRKAL 238


RESULT 43
US-10-511-937-2935
; Sequence 2935, Application US/10511937
; Publication No. US20060088836A1
; GENERAL INFORMATION:
;  APPLICANT: EXPRESSION DIAGNOSTICS, INC.
;  APPLICANT:  Wohlgemuth, Jay
;  APPLICANT:  Fry, Kirk
;  APPLICANT:  Woodward, Robert
;  APPLICANT:  Ly, Ngoc
;  APPLICANT:  Prentice, James
;  APPLICANT:  Morris, MacDonald
;  APPLICANT:  Rosenberg, Steven
```

```
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING
;  TITLE OF INVENTION:  AND MONITORING TRANSPLANT REJECTION
;  FILE REFERENCE: 506612000104
;  CURRENT APPLICATION NUMBER: US/10/511,937
;  CURRENT FILING DATE:  2004-10-19
;  PRIOR APPLICATION NUMBER: PCT/US2003/012946
;  PRIOR FILING DATE: 2003-04-24
;  PRIOR APPLICATION NUMBER: US 10/131,831
;  PRIOR FILING DATE: 2002-04-24
;  PRIOR APPLICATION NUMBER: US 10/325,899
;  PRIOR FILING DATE: 2002-12-20
;  NUMBER OF SEQ ID NOS: 3117
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2935
;   LENGTH: 352
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-511-937-2935

  Query Match             58.3%;  Score 28;  DB 8;  Length 352;
  Best Local Similarity   71.4%;  Pred. No. 2.3e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HQKRTAM 8
              |||| |:
Db        232 HQKRKAL 238


RESULT 44
US-10-511-937-3010
; Sequence 3010, Application US/10511937
; Publication No. US20060088836A1
; GENERAL INFORMATION:
;  APPLICANT: EXPRESSION DIAGNOSTICS, INC.
;  APPLICANT:  Wohlgemuth, Jay
;  APPLICANT:  Fry, Kirk
;  APPLICANT:  Woodward, Robert
;  APPLICANT:  Ly, Ngoc
;  APPLICANT:  Prentice, James
;  APPLICANT:  Morris, MacDonald
;  APPLICANT:  Rosenberg, Steven
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING
;  TITLE OF INVENTION:  AND MONITORING TRANSPLANT REJECTION
;  FILE REFERENCE: 506612000104
;  CURRENT APPLICATION NUMBER: US/10/511,937
;  CURRENT FILING DATE:  2004-10-19
;  PRIOR APPLICATION NUMBER: PCT/US2003/012946
;  PRIOR FILING DATE: 2003-04-24
;  PRIOR APPLICATION NUMBER: US 10/131,831
;  PRIOR FILING DATE: 2002-04-24
;  PRIOR APPLICATION NUMBER: US 10/325,899
;  PRIOR FILING DATE: 2002-12-20
;  NUMBER OF SEQ ID NOS: 3117
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3010
;   LENGTH: 352
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-511-937-3010

  Query Match             58.3%;  Score 28;  DB 8;  Length 352;
  Best Local Similarity   71.4%;  Pred. No. 2.3e+02;
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Db        232 HQKRKAL 238


RESULT 45
US-11-028-922A-1
; Sequence 1, Application US/11028922A
; Publication No. US20050271639A1
; GENERAL INFORMATION:
;  APPLICANT: Penn, Marc
;  TITLE OF INVENTION: GENETICALLY ENGINEERED FOR THERAPEUTIC APPLICATIONS
;  FILE REFERENCE: CCF-7019
;  CURRENT APPLICATION NUMBER: US/11/028,922A
;  CURRENT FILING DATE:  2005-01-04
;  NUMBER OF SEQ ID NOS: 9
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1
;   LENGTH: 352
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-028-922A-1

  Query Match             58.3%;  Score 28;  DB 11;  Length 352;
  Best Local Similarity   71.4%;  Pred. No. 2.3e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 HQKRTAM 8
              |||| |:
Db        232 HQKRKAL 238


RESULT 46
US-10-330-773-918
; Sequence 918, Application US/10330773
; Publication No. US20060040262A1
; GENERAL INFORMATION:
;  APPLICANT: David W. Morris
;  APPLICANT:  Marc Malandro
;  TITLE OF INVENTION: Novel Compositions and Methods in Cancer
;  FILE REFERENCE: 529452001300
;  CURRENT APPLICATION NUMBER: US/10/330,773
;  CURRENT FILING DATE:  2002-12-27
;  NUMBER OF SEQ ID NOS: 981
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 918
;   LENGTH: 355
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-10-330-773-918

  Query Match             58.3%;  Score 28;  DB 9;  Length 355;
  Best Local Similarity   71.4%;  Pred. No. 2.4e+02;
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Qy          2 HQKRTAM 8
              |||| |:
Db        237 HQKRKAL 243


RESULT 47
US-11-096-568A-11087
; Sequence 11087, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 11087
;   LENGTH: 365
;   TYPE: PRT
;   ORGANISM: Triticum aestivum
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(365)
;   OTHER INFORMATION: Ceres Seq. ID no. 15222207
US-11-096-568A-11087
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Db        215 MHQKR 219


RESULT 48
US-11-087-099-2856
; Sequence 2856, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 2856
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Dichomitus squalens
US-11-087-099-2856

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Db        272 HDERTACF 279


RESULT 49
US-10-131-826A-330
; Sequence 330, Application US/10131826A
; Publication No. US20050245730A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Beresini,Maureen
;  APPLICANT:  DeForge,Laura
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gao,Wei-Qiang
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Sherwood,Steven
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Stewart,Timothy A.
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  Watanabe,Colin K
;  APPLICANT:  Wood,William
;  APPLICANT:  Zhang, Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3330R1C128
;  CURRENT APPLICATION NUMBER: US/10/131,826A
;  CURRENT FILING DATE:  2002-04-24
;  PRIOR APPLICATION NUMBER: 60/049911
;  PRIOR FILING DATE: 1997-06-18
;  PRIOR APPLICATION NUMBER: 60/056974
;  PRIOR FILING DATE: 1997-08-26
;  PRIOR APPLICATION NUMBER: 60/059113
;  PRIOR FILING DATE: 1997-09-17
;  PRIOR APPLICATION NUMBER: 60/059115
;  PRIOR FILING DATE: 1997-09-17
;  PRIOR APPLICATION NUMBER: 60/059117
;  PRIOR FILING DATE: 1997-09-17
;  PRIOR APPLICATION NUMBER: 60/059122
;  PRIOR FILING DATE: 1997-09-17
;  PRIOR APPLICATION NUMBER: 60/059184
;  PRIOR FILING DATE: 1997-09-17
;  PRIOR APPLICATION NUMBER: 60/059263
;  PRIOR FILING DATE: 1997-09-18
;  PRIOR APPLICATION NUMBER: 60/059352
;  PRIOR FILING DATE: 1997-09-19
;  PRIOR APPLICATION NUMBER: 60/059588
;  PRIOR FILING DATE: 1997-09-19
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 330
;   LENGTH: 428
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-131-826A-330

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Db         24 LHQRRVAL 31


RESULT 50
US-10-973-115B-330
; Sequence 330, Application US/10973115B
; Publication No. US20060040351A1
; GENERAL INFORMATION:
;  APPLICANT: Baker, Kevin P.
;  APPLICANT:  Beresini, Maureen
;  APPLICANT:  DeForge, Laura
;  APPLICANT:  Desnoyers, Luc
;  APPLICANT:  Filvaroff, Ellen
;  APPLICANT:  Gao, Wei-Quiang
;  APPLICANT:  Gerritsen, Mary E.
;  APPLICANT:  Goddard, Audrey
;  APPLICANT:  Godowski, Paul
;  APPLICANT:  Gurney, Austin L.
;  APPLICANT:  Sherwood, Steven
;  APPLICANT:  Smith, Victoria
;  APPLICANT:  Stewart, Timothy A.
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Watanabe, Colin K.
;  APPLICANT:  Wood, William I.
;  APPLICANT:  Zhang, Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODINC
;  TITLE OF INVENTION:  SAME
;  FILE REFERENCE: 39870-3330R1C300C1
;  CURRENT APPLICATION NUMBER: US/10/973,115B
;  CURRENT FILING DATE:  2004-10-22
;  PRIOR APPLICATION NUMBER: US 10/145,747
;  PRIOR FILING DATE: 2002-05-14
;  PRIOR APPLICATION NUMBER: US 10/028,072
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: PCT/US00/32678
;  PRIOR FILING DATE: 2000-12-01
;  PRIOR APPLICATION NUMBER: US 09/581,742
;  PRIOR FILING DATE: 2000-06-16
;  PRIOR APPLICATION NUMBER: PCT/US00/05746
;  PRIOR FILING DATE: 2000-03-02
;  PRIOR APPLICATION NUMBER: US 60/135,736
;  PRIOR FILING DATE: 1999-05-25
;  PRIOR APPLICATION NUMBER: US 60/123,090
;  PRIOR FILING DATE: 1999-03-05
;  NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 330
;   LENGTH: 428
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-973-115B-330
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Query Match 58.3%; Score 28; DB 9; Length 428;
Best Local Similarity 50.0%; Pred. No. 2.9e+02;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

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Qy          1 MHQKRTAM 8
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Db         24 LHQRRVAL 31
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Job time : 9.4 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 05:36:41 ; Search time 20.9 Seconds
(without alignments)
35.602 Million cell updates/sec

Title: US-08-170-344-66
Perfect score: 46
Sequence: 1 LLRREVYDF 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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3: /cgn2_6/ptodata/1/iaa/H_COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
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6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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| 3 | 46 | 100.0 | 158 | 2 | US-09-980-523A-2 | Sequence 2, Appli |
| 4 | 46 | 100.0 | 162 | 1 | US-08-316-239B-3 | Sequence 3, Appli |
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| 8 | 46 | 100.0 | 182 | 1 | US-08-117-083-10 | Sequence 10, Appl |
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| 11 | 46 | 100.0 | 266 | 2 | US-09-359-382-10 | Sequence 10, Appl |
| 12 | 46 | 100.0 | 266 | 2 | US-09-367-309A-1 | Sequence 1, Appli |
| 13 | 46 | 100.0 | 273 | 2 | US-09-485-885-4 | Sequence 4, Appli |
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| 15 | 46 | 100.0 | 371 | 2 | US-09-485-885-6 | Sequence 6, Appli |
| 16 | 46 | 100.0 | 390 | 2 | US-09-485-885-14 | Sequence 14, Appl |
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| 18 | 42 | 91.3 | 23 | 2 | US-09-601-729-276 | Sequence 276, App |
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| 21 | 35 | 76.1 | 287 | 2 | US-09-585-858-48 | Sequence 48, Appl |
| 22 | 35 | 76.1 | 287 | 2 | US-10-270-878-48 | Sequence 48, Appl |
| 23 | 35 | 76.1 | 377 | 2 | US-09-198-452A-654 | Sequence 654, App |
| 24 | 35 | 76.1 | 478 | 2 | US-09-438-185A-618 | Sequence 618, App |
| 25 | 35 | 76.1 | 811 | 1 | US-08-136-743B-4 | Sequence 4, Appli |
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| 28 | 34 | 73.9 | 445 | 2 | US-09-328-352-4631 | Sequence 4631, Ap |
| 29 | 34 | 73.9 | 495 | 2 | US-09-691-270A-24 | Sequence 24, Appl |
| 30 | 34 | 73.9 | 792 | 2 | US-09-902-540-16475 | Sequence 16475, A |
| 31 | 33 | 71.7 | 168 | 2 | US-09-605-703B-2122 | Sequence 2122, Ap |
| 32 | 33 | 71.7 | 264 | 2 | US-09-710-279-388 | Sequence 388, App |
| 33 | 33 | 71.7 | 269 | 2 | US-09-134-001C-4919 | Sequence 4919, Ap |
| 34 | 32 | 69.6 | 85 | 2 | US-09-248-796A-23606 | Sequence 23606, A |
| 35 | 32 | 69.6 | 169 | 2 | US-09-107-532A-5211 | Sequence 5211, Ap |
| 36 | 32 | 69.6 | 362 | 2 | US-09-949-016-7725 | Sequence 7725, Ap |
| 37 | 32 | 69.6 | 376 | 2 | US-09-538-092-1109 | Sequence 1109, Ap |
| 38 | 32 | 69.6 | 457 | 2 | US-09-248-796A-19185 | Sequence 19185, A |
| 39 | 32 | 69.6 | 473 | 2 | US-09-790-838-5 | Sequence 5, Appli |
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| 42 | 32 | 69.6 | 474 | 2 | US-10-165-800-8 | Sequence 8, Appli |
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| 44 | 32 | 69.6 | 487 | 2 | US-10-165-800-6 | Sequence 6, Appli |
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| 46 | 32 | 69.6 | 4872 | 2 | US-09-424-783-3 | Sequence 3, Appli |
| 47 | 31 | 67.4 | 102 | 2 | US-10-311-886-25 | Sequence 25, Appl |
| 48 | 31 | 67.4 | 185 | 2 | US-10-311-886-11 | Sequence 11, Appl |
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| 51 | 31 | 67.4 | 208 | 2 | US-08-961-083-214 | Sequence 214, App |
| 52 | 31 | 67.4 | 208 | 2 | US-09-536-784-214 | Sequence 214, App |
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| 54 | 31 | 67.4 | 208 | 2 | US-09-765-272A-214 | Sequence 214, App |
| 55 | 31 | 67.4 | 271 | 2 | US-09-583-110-3517 | Sequence 3517, Ap |
| 56 | 31 | 67.4 | 273 | 2 | US-09-252-991A-21634 | Sequence 21634, A |
| 57 | 31 | 67.4 | 274 | 2 | US-09-489-039A-14339 | Sequence 14339, A |
| 58 | 31 | 67.4 | 277 | 2 | US-09-107-433-4059 | Sequence 4059, Ap |
| 59 | 31 | 67.4 | 279 | 2 | US-09-543-681A-4433 | Sequence 4433, Ap |
| 60 | 31 | 67.4 | 296 | 2 | US-09-328-352-5810 | Sequence 5810, Ap |
| 61 | 31 | 67.4 | 314 | 2 | US-10-101-464A-728 | Sequence 728, App |
| 62 | 31 | 67.4 | 319 | 2 | US-09-710-279-2760 | Sequence 2760, Ap |
| 63 | 31 | 67.4 | 335 | 2 | US-09-232-191-21 | Sequence 21, Appl |
| 64 | 31 | 67.4 | 335 | 2 | US-09-232-200-21 | Sequence 21, Appl |
| 65 | 31 | 67.4 | 335 | 2 | US-09-232-197-21 | Sequence 21, Appl |
| 66 | 31 | 67.4 | 335 | 2 | US-09-232-201-21 | Sequence 21, Appl |
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| 68 | 31 | 67.4 | 381 | 2 | US-10-311-886-7 | Sequence 7, Appli |
| 69 | 31 | 67.4 | 381 | 2 | US-10-311-886-8 | Sequence 8, Appli |
| 70 | 31 | 67.4 | 381 | 2 | US-10-311-886-9 | Sequence 9, Appli |
| 71 | 31 | 67.4 | 393 | 2 | US-09-393-858-2 | Sequence 2, Appli |
| 72 | 31 | 67.4 | 393 | 2 | US-10-190-279-2 | Sequence 2, Appli |
| 73 | 31 | 67.4 | 415 | 2 | US-09-248-796A-17467 | Sequence 17467, A |
| 74 | 31 | 67.4 | 436 | 2 | US-09-393-858-5 | Sequence 5, Appli |
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| 78 | 31 | 67.4 | 443 | 2 | US-09-134-001C-3183 | Sequence 3183, Ap |
| 79 | 31 | 67.4 | 494 | 2 | US-09-134-001C-4176 | Sequence 4176, Ap |
| 80 | 31 | 67.4 | 619 | 2 | US-09-232-200-37 | Sequence 37, Appl |
| 81 | 31 | 67.4 | 619 | 2 | US-09-232-200-40 | Sequence 40, Appl |
| 82 | 31 | 67.4 | 619 | 2 | US-09-232-200-57 | Sequence 57, Appl |
| 83 | 31 | 67.4 | 619 | 2 | US-09-232-197-37 | Sequence 37, Appl |
| 84 | 31 | 67.4 | 619 | 2 | US-09-232-197-40 | Sequence 40, Appl |
| 85 | 31 | 67.4 | 619 | 2 | US-09-232-197-57 | Sequence 57, Appl |
| 86 | 31 | 67.4 | 619 | 2 | US-09-232-201-37 | Sequence 37, Appl |
| 87 | 31 | 67.4 | 619 | 2 | US-09-232-201-40 | Sequence 40, Appl |
| 88 | 31 | 67.4 | 619 | 2 | US-09-232-201-57 | Sequence 57, Appl |
| 89 | 31 | 67.4 | 619 | 2 | US-09-232-195-37 | Sequence 37, Appl |
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| 91 | 31 | 67.4 | 619 | 2 | US-09-232-195-57 | Sequence 57, Appl |
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| 93 | 31 | 67.4 | 872 | 2 | US-08-968-633-3 | Sequence 3, Appli |
| 94 | 31 | 67.4 | 872 | 2 | US-09-196-466-3 | Sequence 3, Appli |
| 95 | 31 | 67.4 | 872 | 2 | US-09-669-459A-3 | Sequence 3, Appli |
| 96 | 31 | 67.4 | 872 | 4 | PCT-US96-10823-3 | Sequence 3, Appli |
| 97 | 31 | 67.4 | 946 | 2 | US-08-560-005-4 | Sequence 4, Appli |
| 98 | 31 | 67.4 | 946 | 2 | US-09-418-540-4 | Sequence 4, Appli |
| 99 | 31 | 67.4 | 946 | 2 | US-09-969-528-4 | Sequence 4, Appli |
| 100 | 31 | 67.4 | 1071 | 1 | US-08-975-527-1 | Sequence 1, Appli |

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| 101 | 31 | 67.4 | 1422 | 2 | US-08-469-260A-82 | Sequence 82, Appl |
| 102 | 31 | 67.4 | 1422 | 2 | US-08-488-446-82 | Sequence 82, Appl |
| 103 | 31 | 67.4 | 1422 | 2 | US-08-467-344A-82 | Sequence 82, Appl |
| 104 | 31 | 67.4 | 1422 | 2 | US-08-424-550B-82 | Sequence 82, Appl |
| 105 | 31 | 67.4 | 1441 | 2 | US-09-252-991A-28143 | Sequence 28143, A |
| 106 | 30 | 65.2 | 39 | 1 | US-08-629-291A-29 | Sequence 29, Appl |
| 107 | 30 | 65.2 | 39 | 1 | US-08-658-335B-29 | Sequence 29, Appl |
| 108 | 30 | 65.2 | 39 | 2 | US-09-406-640-29 | Sequence 29, Appl |
| 109 | 30 | 65.2 | 41 | 1 | US-08-481-956A-5 | Sequence 5, Appli |
| 110 | 30 | 65.2 | 41 | 1 | US-08-481-956A-6 | Sequence 6, Appli |
| 111 | 30 | 65.2 | 41 | 1 | US-08-481-956A-7 | Sequence 7, Appli |
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| 113 | 30 | 65.2 | 41 | 1 | US-08-629-291A-6 | Sequence 6, Appli |
| 114 | 30 | 65.2 | 41 | 1 | US-08-629-291A-7 | Sequence 7, Appli |
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| 116 | 30 | 65.2 | 41 | 1 | US-08-658-335B-6 | Sequence 6, Appli |
| 117 | 30 | 65.2 | 41 | 1 | US-08-658-335B-7 | Sequence 7, Appli |
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| 120 | 30 | 65.2 | 41 | 2 | US-09-406-640-7 | Sequence 7, Appli |
| 121 | 30 | 65.2 | 89 | 2 | US-09-599-360B-122 | Sequence 122, App |
| 122 | 30 | 65.2 | 95 | 2 | US-09-902-540-10823 | Sequence 10823, A |
| 123 | 30 | 65.2 | 99 | 1 | US-09-047-125-7 | Sequence 7, Appli |
| 124 | 30 | 65.2 | 99 | 2 | US-07-736-335E-7 | Sequence 7, Appli |
| 125 | 30 | 65.2 | 129 | 2 | US-09-108-020-41 | Sequence 41, Appl |
| 126 | 30 | 65.2 | 129 | 2 | US-09-685-296-41 | Sequence 41, Appl |
| 127 | 30 | 65.2 | 181 | 2 | US-09-134-000C-6757 | Sequence 6757, Ap |
| 128 | 30 | 65.2 | 185 | 2 | US-09-198-452A-106 | Sequence 106, App |
| 129 | 30 | 65.2 | 224 | 2 | US-09-902-540-11079 | Sequence 11079, A |
| 130 | 30 | 65.2 | 252 | 2 | US-09-538-092-198 | Sequence 198, App |
| 131 | 30 | 65.2 | 260 | 2 | US-09-605-703B-2162 | Sequence 2162, Ap |
| 132 | 30 | 65.2 | 264 | 2 | US-09-134-000C-6709 | Sequence 6709, Ap |
| 133 | 30 | 65.2 | 291 | 2 | US-09-107-532A-4205 | Sequence 4205, Ap |
| 134 | 30 | 65.2 | 361 | 2 | US-09-107-532A-4446 | Sequence 4446, Ap |
| 135 | 30 | 65.2 | 368 | 2 | US-09-252-991A-27620 | Sequence 27620, A |
| 136 | 30 | 65.2 | 372 | 2 | US-09-248-796A-20859 | Sequence 20859, A |
| 137 | 30 | 65.2 | 389 | 2 | US-09-328-352-6823 | Sequence 6823, Ap |
| 138 | 30 | 65.2 | 449 | 2 | US-09-134-000C-5444 | Sequence 5444, Ap |
| 139 | 30 | 65.2 | 491 | 2 | US-09-489-039A-8193 | Sequence 8193, Ap |
| 140 | 30 | 65.2 | 508 | 2 | US-09-605-703B-1436 | Sequence 1436, Ap |
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| 415 | 28 | 60.9 | 608 | 2 | US-09-949-016-9449 | Sequence 9449, Ap |
| 416 | 28 | 60.9 | 625 | 2 | US-09-949-016-8485 | Sequence 8485, Ap |
| 417 | 28 | 60.9 | 625 | 2 | US-09-949-016-8810 | Sequence 8810, Ap |
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| 419 | 28 | 60.9 | 646 | 2 | US-09-583-110-5307 | Sequence 5307, Ap |
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| 440 | 28 | 60.9 | 836 | 2 | US-09-297-703C-29 | Sequence 29, Appl |
| 441 | 28 | 60.9 | 843 | 2 | US-09-235-451-25 | Sequence 25, Appl |
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| 649 | 27 | 58.7 | 611 | 2 | US-09-902-540-10033 | Sequence 10033, A |
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| 661 | 27 | 58.7 | 628 | 2 | US-09-862-027-48 | Sequence 48, Appl |
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| 683 | 27 | 58.7 | 761 | 2 | US-09-625-188-14 | Sequence 14, Appl |
| 684 | 27 | 58.7 | 765 | 2 | US-08-737-109-11 | Sequence 11, Appl |

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| 709 | 27 | 58.7 | 1102 | 1 | US-08-672-211-4 | Sequence 4, Appli |
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| 718 | 27 | 58.7 | 1209 | 2 | US-10-135-687-4 | Sequence 4, Appli |
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| 796 | 26 | 56.5 | 32 | 1 | US-08-284-391B-46 | Sequence 46, Appl |
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| 825 | 26 | 56.5 | 95 | 2 | US-09-107-433-4343 | Sequence 4343, Ap |
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| 860 | 26 | 56.5 | 135 | 2 | US-09-248-796A-19203 | Sequence 19203, A |
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| 896 | 26 | 56.5 | 179 | 2 | US-09-270-767-32718 | Sequence 32718, A |
| 897 | 26 | 56.5 | 179 | 2 | US-09-270-767-47935 | Sequence 47935, A |
| 898 | 26 | 56.5 | 179 | 2 | US-09-710-279-3052 | Sequence 3052, Ap |
| 899 | 26 | 56.5 | 183 | 2 | US-09-302-626B-86 | Sequence 86, Appl |
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| 923 | 26 | 56.5 | 236 | 2 | US-09-248-796A-19850 | Sequence 19850, A |
| 924 | 26 | 56.5 | 238 | 2 | US-09-664-595A-15 | Sequence 15, Appl |
| 925 | 26 | 56.5 | 238 | 2 | US-09-949-016-9161 | Sequence 9161, Ap |
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| 927 | 26 | 56.5 | 240 | 2 | US-09-270-767-44763 | Sequence 44763, A |
| 928 | 26 | 56.5 | 241 | 1 | US-08-330-978-4 | Sequence 4, Appli |
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| 933 | 26 | 56.5 | 247 | 2 | US-08-944-483-49 | Sequence 49, Appl |
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| 935 | 26 | 56.5 | 252 | 2 | US-09-248-796A-18831 | Sequence 18831, A |
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| 942 | 26 | 56.5 | 257 | 2 | US-09-266-965-102 | Sequence 102, App |
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| 945 | 26 | 56.5 | 258 | 2 | US-09-538-092-81 | Sequence 81, Appl |
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| 955 | 26 | 56.5 | 270 | 2 | US-09-634-238-418 | Sequence 418, App |
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| 968 | 26 | 56.5 | 285 | 2 | US-09-134-001C-3208 | Sequence 3208, Ap |
| 969 | 26 | 56.5 | 286 | 2 | US-09-583-110-3694 | Sequence 3694, Ap |
| 970 | 26 | 56.5 | 287 | 2 | US-09-134-000C-3912 | Sequence 3912, Ap |
| 971 | 26 | 56.5 | 287 | 2 | US-09-902-540-12543 | Sequence 12543, A |
| 972 | 26 | 56.5 | 288 | 2 | US-09-252-991A-25627 | Sequence 25627, A |
| 973 | 26 | 56.5 | 288 | 2 | US-09-902-540-14563 | Sequence 14563, A |
| 974 | 26 | 56.5 | 290 | 2 | US-09-360-376-12 | Sequence 12, Appl |
| 975 | 26 | 56.5 | 292 | 1 | US-07-952-817-25 | Sequence 25, Appl |
| 976 | 26 | 56.5 | 292 | 2 | US-09-902-540-12169 | Sequence 12169, A |

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| 977 | 26 | 56.5 | 293 | 2 | US-09-252-991A-17296 | Sequence 17296, A |
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| 979 | 26 | 56.5 | 296 | 2 | US-09-710-279-1674 | Sequence 1674, Ap |
| 980 | 26 | 56.5 | 297 | 2 | US-09-949-016-6056 | Sequence 6056, Ap |
| 981 | 26 | 56.5 | 298 | 2 | US-09-248-796A-19087 | Sequence 19087, A |
| 982 | 26 | 56.5 | 301 | 2 | US-09-134-001C-3220 | Sequence 3220, Ap |
| 983 | 26 | 56.5 | 301 | 2 | US-09-107-433-3586 | Sequence 3586, Ap |
| 984 | 26 | 56.5 | 303 | 2 | US-09-583-110-3599 | Sequence 3599, Ap |
| 985 | 26 | 56.5 | 305 | 2 | US-09-328-352-5352 | Sequence 5352, Ap |
| 986 | 26 | 56.5 | 305 | 2 | US-09-489-039A-10184 | Sequence 10184, A |
| 987 | 26 | 56.5 | 306 | 1 | US-08-330-978-1 | Sequence 1, Appli |
| 988 | 26 | 56.5 | 306 | 1 | US-08-474-042-1 | Sequence 1, Appli |
| 989 | 26 | 56.5 | 306 | 1 | US-08-484-558-1 | Sequence 1, Appli |
| 990 | 26 | 56.5 | 306 | 1 | US-08-774-592-1 | Sequence 1, Appli |
| 991 | 26 | 56.5 | 307 | 2 | US-09-328-352-7631 | Sequence 7631, Ap |
| 992 | 26 | 56.5 | 308 | 2 | US-09-198-452A-310 | Sequence 310, App |
| 993 | 26 | 56.5 | 308 | 2 | US-09-602-787A-62 | Sequence 62, Appl |
| 994 | 26 | 56.5 | 309 | 2 | US-09-949-016-6485 | Sequence 6485, Ap |
| 995 | 26 | 56.5 | 309 | 2 | US-10-360-101-233 | Sequence 233, App |
| 996 | 26 | 56.5 | 310 | 2 | US-09-270-767-47942 | Sequence 47942, A |
| 997 | 26 | 56.5 | 311 | 2 | US-08-961-083-184 | Sequence 184, App |
| 998 | 26 | 56.5 | 311 | 2 | US-09-536-784-184 | Sequence 184, App |
| 999 | 26 | 56.5 | 311 | 2 | US-09-270-767-44261 | Sequence 44261, A |
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ALIGNMENTS

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RESULT 1
US-08-159-339A-252
; Sequence 252, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  252:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-252

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Db          1 LLRREVYDF 9


RESULT 2
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
;  APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
;  TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 FC
;  TITLE OF INVENTION:  TRANSCRIPTIONAL REGULATION
;  FILE REFERENCE: N73477C GCW
;  CURRENT APPLICATION NUMBER: US/09/701,080C
;  CURRENT FILING DATE:  2001-02-27
;  PRIOR APPLICATION NUMBER: GB 9811303.8
;  PRIOR FILING DATE: 1998-05-26
;  PRIOR APPLICATION NUMBER: GB 9900157.0
;  PRIOR FILING DATE: 1999-01-05
;  NUMBER OF SEQ ID NOS: 36
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-09-701-080C-18

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Qy          1 LLRREVYDF 9
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Db         37 LLRREVYDF 45


RESULT 3
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 158
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;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-2

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Qy          1 LLRREVYDF 9
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Db         44 LLRREVYDF 52


RESULT 4
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-3

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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db         44 LLRREVYDF 52


RESULT 5
US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-4

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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db         44 LLRREVYDF 52


RESULT 6
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
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US-08-860-165-14

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Db        113 LLRREVYDF 121


RESULT 7
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
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US-09-359-382-14

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Db        113 LLRREVYDF 121


RESULT 8
US-08-117-083-10
; Sequence 10, Application US/08117083
; Patent No. 5719054
;  GENERAL INFORMATION:
;    APPLICANT:  Boursnell, Michael E.
;    APPLICANT:  Inglis, Stephen C.
;    APPLICANT:  Munro, Alan J.
;    TITLE OF INVENTION:  Recombinant Virus Vectors Encoding Human
;    TITLE OF INVENTION:  Papilloma Virus Proteins
;    NUMBER OF SEQUENCES:  70
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Walter H. Dreger
;      STREET:  4 Embarcadero Center, Suite 3400
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/117,083
;      FILING DATE:  10-SEP-1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Dreger, Walter H.
;      REGISTRATION NUMBER:  24,190
;      REFERENCE/DOCKET NUMBER:  A-58783
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-781-1989
;      TELEFAX:  415-398-3249
;      TELEX:  910 277299
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  182 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    FEATURE:
;      NAME/KEY:  Protein
;      LOCATION:  1..182
;      OTHER INFORMATION:  /note= "Xaa refers to stop codon in
;      OTHER INFORMATION:  the open reading frame."
US-08-117-083-10

  Query Match             100.0%;  Score 46;  DB 1;  Length 182;
  Best Local Similarity   100.0%;  Pred. No. 0.14;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db         45 LLRREVYDF 53


RESULT 9
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
;  APPLICANT:  KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION:  ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE:  017753-122
;  CURRENT APPLICATION NUMBER: US/09/462,993
;  CURRENT FILING DATE:  2000-04-17
;  PRIOR APPLICATION NUMBER:  PCT/FR98/01576
;  PRIOR FILING DATE:  1998-07-17
;  PRIOR APPLICATION NUMBER:  FR 97/09152
;  PRIOR FILING DATE:  1997-07-18
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

  Query Match             100.0%;  Score 46;  DB 2;  Length 243;
  Best Local Similarity   100.0%;  Pred. No. 0.19;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db         72 LLRREVYDF 80


RESULT 10
US-08-860-165-10
; Sequence 10, Application US/08860165A
```

; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

Query Match 100.0%; Score 46; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LLRREVYDF 9
||||||||| 
Db 44 LLRREVYDF 52

RESULT 11
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match 100.0%; Score 46; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LLRREVYDF 9
||||||||| 
Db 44 LLRREVYDF 52

RESULT 12
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 46; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LLRREVYDF 9
||||||||| 
Db 44 LLRREVYDF 52

RESULT 13
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-4

Query Match 100.0%; Score 46; DB 2; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.22;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LLRREVYDF 9
||||||||| 
Db 150 LLRREVYDF 158

RESULT 14
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela

```
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-10

  Query Match             100.0%;  Score 46;  DB 2;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.23;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db        169 LLRREVYDF 177


RESULT 15
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-6

  Query Match             100.0%;  Score 46;  DB 2;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 0.3;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db        150 LLRREVYDF 158


RESULT 16
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-14

  Query Match             100.0%;  Score 46;  DB 2;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 0.32;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db        169 LLRREVYDF 177


RESULT 17
US-07-909-122-4
; Sequence 4, Application US/07909122
; Patent No. 5415995
;  GENERAL INFORMATION:
;    APPLICANT:  SCHOOLNIK, GARY K.
;    APPLICANT:  PALEFSKY, JOEL M.
;    TITLE OF INVENTION:  DIAGNOSTIC PEPTIDES OF HUMAN PAPILLOMA
;    TITLE OF INVENTION:  VIRUS
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MORRISON & FOERSTER
;      STREET:  755 Page Mill Road
;      CITY:  Palo Alto
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94304-1018
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/909,122
;      FILING DATE:  19920706
;      CLASSIFICATION:  530
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  BENZ, WILLIAM H.
;      REGISTRATION NUMBER:  25,952
;      REFERENCE/DOCKET NUMBER:  28600-20105.01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 813-5600
;      TELEFAX:  (415) 494-0792
;      TELEX:  706141
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  14 amino acids
;      TYPE:  AMINO ACID
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
US-07-909-122-4

  Query Match             91.3%;  Score 42;  DB 1;  Length 14;
  Best Local Similarity   100.0%;  Pred. No. 0.056;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 LRREVYDF 9
              ||||||||
Db          1 LRREVYDF 8
```

```
RESULT 18
US-09-601-729-276
; Sequence 276, Application US/09601729
; Patent No. 6683052
; GENERAL INFORMATION:
;  APPLICANT: THIAM, KADER
;  APPLICANT:  AURIAULT, CLAUDE
;  APPLICANT:  GRAS-MASSE, HELENE
;  APPLICANT:  LOING, ESTELLE
;  APPLICANT:  VERWAERDE, CLAUDIE
;  APPLICANT:  GUILLET, JEAN GERARD
;  TITLE OF INVENTION: LIPOPEPTIDES CONTAINING AN INTERFERON FRAGMENT AND USES
;  TITLE OF INVENTION:  THEREOF IN PHARMACEUTICAL COMPOSITIONS
;  FILE REFERENCE: USB-97-AU-IN
;  CURRENT APPLICATION NUMBER: US/09/601,729
;  CURRENT FILING DATE:  2000-11-20
;  PRIOR APPLICATION NUMBER: PCT/FR99/00259
;  PRIOR FILING DATE: 1999-02-05
;  PRIOR APPLICATION NUMBER: 98 01439
;  PRIOR FILING DATE: 1998-02-06
;  NUMBER OF SEQ ID NOS: 281
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 276
;   LENGTH: 23
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;   OTHER INFORMATION: peptide
US-09-601-729-276

  Query Match             91.3%;  Score 42;  DB 2;  Length 23;
  Best Local Similarity   100.0%;  Pred. No. 0.095;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 LRREVYDF 9
              ||||||||
Db          1 LRREVYDF 8


RESULT 19
US-09-980-523A-6
; Sequence 6, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
;   LENGTH: 22
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-6

  Query Match             82.6%;  Score 38;  DB 2;  Length 22;
  Best Local Similarity   100.0%;  Pred. No. 0.57;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 RREVYDF 9
              |||||||
Db          1 RREVYDF 7


RESULT 20
US-08-934-915-160
; Sequence 160, Application US/08934915
; Patent No. 5932412
; GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  160:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-160

  Query Match             76.1%;  Score 35;  DB 1;  Length 20;
  Best Local Similarity   87.5%;  Pred. No. 2;
  Matches    7;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYD 8
              |||||||:
Db         13 LLRREVYN 20


RESULT 21
US-09-585-858-48
; Sequence 48, Application US/09585858
; Patent No. 6492161
; GENERAL INFORMATION:
;  APPLICANT:  Sigridur Hjorleifsdotter
;  APPLICANT:  Gudmundur O. Hreggvidsson
;  APPLICANT:  Olafur H. Fridjonsson
;  APPLICANT:  Arnthor Aevarsson
;  APPLICANT:  Jakob K. Kristjansson
;  TITLE OF INVENTION:  Bacteriophage RM378 of a Thermophilic
;  TITLE OF INVENTION:  Host Organism
```

```
;  FILE REFERENCE:  2739.1001-001
;  CURRENT APPLICATION NUMBER: US/09/585,858
;  CURRENT FILING DATE:  2000-12-18
;  PRIOR APPLICATION NUMBER:  60/137,120
;  PRIOR FILING DATE:  1999-06-02
;  NUMBER OF SEQ ID NOS:  73
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 48
;   LENGTH: 287
;   TYPE: PRT
;   ORGANISM: Chlamydomonas trachomatis
US-09-585-858-48

  Query Match             76.1%;  Score 35;  DB 2;  Length 287;
  Best Local Similarity   87.5%;  Pred. No. 36;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LLRREVYD 8
              ||||| ||
Db        236 LLRREYYD 243


RESULT 22
US-10-270-878-48
; Sequence 48, Application US/10270878
; Patent No. 6818425
; GENERAL INFORMATION:
;  APPLICANT: Sigridur Hjorleifsdotter
;  APPLICANT:  Gudmundur O. Hreggvidsson
;  APPLICANT:  Olafur H. Fridjonsson
;  APPLICANT:  Arnthor Aevarsson
;  APPLICANT:  Jakob K. Kristjansson
;  TITLE OF INVENTION: Bacteriophage RM378 of a Thermophilic
;  TITLE OF INVENTION:  Host Organism
;  FILE REFERENCE: 2739.1001-001
;  CURRENT APPLICATION NUMBER: US/10/270,878
;  CURRENT FILING DATE:  2002-10-11
;  PRIOR APPLICATION NUMBER: US/09/585,858
;  PRIOR FILING DATE: 2000-12-18
;  NUMBER OF SEQ ID NOS: 73
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 48
;   LENGTH: 287
;   TYPE: PRT
;   ORGANISM: Chlamydomonas trachomatis
US-10-270-878-48

  Query Match             76.1%;  Score 35;  DB 2;  Length 287;
  Best Local Similarity   87.5%;  Pred. No. 36;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LLRREVYD 8
              ||||| ||
Db        236 LLRREYYD 243


RESULT 23
US-09-198-452A-654
; Sequence 654, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
;  APPLICANT: Griffais, R.
;  TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
;  TITLE OF INVENTION:  thereof and uses thereof, in particular for the diagnosis, preve
;  TITLE OF INVENTION:  and treatment of infection
;  FILE REFERENCE: 9710-003-999
;  CURRENT APPLICATION NUMBER: US/09/198,452A
;  CURRENT FILING DATE:  1998-11-24
;  NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 654
;   LENGTH: 377
;   TYPE: PRT
;   ORGANISM: Chlamydia pneumoniae
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: 1...377
;   OTHER INFORMATION: Xaa=unknown or other
US-09-198-452A-654

  Query Match             76.1%;  Score 35;  DB 2;  Length 377;
  Best Local Similarity   87.5%;  Pred. No. 48;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LLRREVYD 8
              ||||| ||
Db        326 LLRREYYD 333


RESULT 24
US-09-438-185A-618
; Sequence 618, Application US/09438185A
; Patent No. 6822071
; GENERAL INFORMATION:
;  APPLICANT: Stephens, Richard
;  APPLICANT:  Mitchell, Wayne
;  APPLICANT:  Kalman, Sue
;  APPLICANT:  Davis, Ronald
;  APPLICANT:  The Regents of the University of California
;  TITLE OF INVENTION: Chlamydia Pneumoniae Genome Sequence
;  FILE REFERENCE: 018941-000411US
;  CURRENT APPLICATION NUMBER: US/09/438,185A
;  CURRENT FILING DATE:  2002-03-13
;  PRIOR APPLICATION NUMBER: US 60/108,279
;  PRIOR FILING DATE: 1998-11-12
;  PRIOR APPLICATION NUMBER: US 60/128,606
;  PRIOR FILING DATE: 1999-04-08
;  NUMBER OF SEQ ID NOS: 1074
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 618
;   LENGTH: 478
;   TYPE: PRT
;   ORGANISM: Chlamydia pneumoniae
;   FEATURE:
;   OTHER INFORMATION: CPn0616
US-09-438-185A-618

  Query Match             76.1%;  Score 35;  DB 2;  Length 478;
  Best Local Similarity   87.5%;  Pred. No. 62;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LLRREVYD 8
              ||||| ||
Db        427 LLRREYYD 434


RESULT 25
US-08-136-743B-4
; Sequence 4, Application US/08136743B
; Patent No. 5459063
;  GENERAL INFORMATION:
;    APPLICANT:  Barry S. Cooperman, Harvey Rubin,
;    APPLICANT:  Jerome Salem, and Alison L. Fisher
;    TITLE OF INVENTION:  "Plasmodium falciparum Ribonu-
;    TITLE OF INVENTION:  cleotide Reductase, DNA Sequences Therefor and Peptide inhibitc
;    TITLE OF INVENTION:  Thereof"
;    NUMBER OF SEQUENCES:  67
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  The University of Pennsylvania
;      STREET:  Suite 330
;      STREET:  3700 Market Street
;      CITY:  Philadelphia
;      STATE:  Pennsylvania
;      COUNTRY:  U.S.A.
;      ZIP:  19104-3246
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette, 3.50 inch, 720 Kb
```

;  COMPUTER: IBM PS/2
;  OPERATING SYSTEM: MS-DOS
;  SOFTWARE: WordPerfect 5.1
;  CURRENT APPLICATION DATA:
;  APPLICATION NUMBER: US/08/136,743B
;  FILING DATE: 10/14/93
;  CLASSIFICATION: 435
;  ATTORNEY/AGENT INFORMATION:
;  NAME: Monaco, Daniel A.
;  REGISTRATION NUMBER: 30,480
;  REFERENCE/DOCKET NUMBER: 3957-10
;  TELECOMMUNICATION INFORMATION:
;  TELEPHONE: (215) 568-8383
;  TELEFAX: (215) 568-5549
;  TELEX: No. 5459063e
;  INFORMATION FOR SEQ ID NO: 4:
;  SEQUENCE CHARACTERISTICS:
;  LENGTH: 811 amino acids
;  TYPE: amino acid
;  TOPOLOGY: linear
US-08-136-743B-4

Query Match 76.1%; Score 35; DB 1; Length 811;
Best Local Similarity 66.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LLRREVYDF 9
|: :|||||
Db 114 LISKEVYDF 122

RESULT 26
US-08-159-339A-135
; Sequence 135, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
;  APPLICANT: Kubo, Ralph T.
;  APPLICANT: Grey, Howard M.
;  APPLICANT: Sette, Alessandro
;  APPLICANT: Celis, Esteban
;  TITLE OF INVENTION: HLA Binding peptides and Their
;  TITLE OF INVENTION: Uses
;  NUMBER OF SEQUENCES: 1254
;  CORRESPONDENCE ADDRESS:
;  ADDRESSEE: Townsend and Townsend and Crew LLP
;  STREET: Two Embarcadero Center, Eighth Floor
;  CITY: San Francisco
;  STATE: CA
;  COUNTRY: USA
;  ZIP: 94111-3834
;  COMPUTER READABLE FORM:
;  MEDIUM TYPE: Diskette
;  COMPUTER: IBM Compatible
;  OPERATING SYSTEM: DOS
;  SOFTWARE: FastSEQ for Windows Version 2.0
;  CURRENT APPLICATION DATA:
;  APPLICATION NUMBER: US/08/159,339A
;  FILING DATE: 29-NOV-1993
;  CLASSIFICATION: 424
;  PRIOR APPLICATION DATA:
;  APPLICATION NUMBER: US 07/926,666
;  FILING DATE: 07-AUG-1992
;  APPLICATION NUMBER: US 08/027,746
;  FILING DATE: 05-MAR-1993
;  APPLICATION NUMBER: US 08/103,396
;  FILING DATE: 06-AUG-1993
;  ATTORNEY/AGENT INFORMATION:
;  NAME: Weber, Ellen Lauver
;  REGISTRATION NUMBER: 32,762
;  REFERENCE/DOCKET NUMBER: 018623-005030US
;  TELECOMMUNICATION INFORMATION:
;  TELEPHONE: (415) 576-0200
;  TELEFAX: (415) 576-0300
;  TELEX:
;  INFORMATION FOR SEQ ID NO: 135:
;  SEQUENCE CHARACTERISTICS:
;  LENGTH: 9 amino acids
;  TYPE: amino acid
;  STRANDEDNESS: single
;  TOPOLOGY: linear
;  MOLECULE TYPE: peptide
US-08-159-339A-135

Query Match 73.9%; Score 34; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LLRREVY 7
|||||||
Db 3 LLRREVY 9

RESULT 27
US-09-248-796A-17266
; Sequence 17266, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
;  TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE: 1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 17266
;  LENGTH: 426
;  TYPE: PRT
;  ORGANISM: Candida albicans
US-09-248-796A-17266

Query Match 73.9%; Score 34; DB 2; Length 426;
Best Local Similarity 75.0%; Pred. No. 86;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LRREVYDF 9
| :|||||
Db 150 LNKEVYDF 157

RESULT 28
US-09-328-352-4631
; Sequence 4631, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton et al.
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
;  TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: GTC99-03PA
;  CURRENT APPLICATION NUMBER: US/09/328,352
;  CURRENT FILING DATE: 1999-06-04
;  NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 4631
;  LENGTH: 445
;  TYPE: PRT
;  ORGANISM: Acinetobacter baumannii
US-09-328-352-4631

Query Match 73.9%; Score 34; DB 2; Length 445;
Best Local Similarity 66.7%; Pred. No. 90;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LLRREVYDF 9

```
              || ||::||
Db        205 LLYREIFDF 213


RESULT 29
US-09-691-270A-24
; Sequence 24, Application US/09691270A
; Patent No. 6627795
; GENERAL INFORMATION:
;  APPLICANT: Williams, Mark E.
;  APPLICANT:  Sean J. Coughlan
;  TITLE OF INVENTION: CAROTENOID BIOSYNTHESIS ENZYMES
;  FILE REFERENCE: BB1115 US NA2
;  CURRENT APPLICATION NUMBER: US/09/691,270A
;  CURRENT FILING DATE:  2000-10-18
;  PRIOR APPLICATION NUMBER: 60/083,042
;  PRIOR FILING DATE: 1998-04-24
;  PRIOR APPLICATION NUMBER: PCT/US99/08789
;  PRIOR FILING DATE: 1999-04-22
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: MICROSOFT OFFICE 97
; SEQ ID NO 24
;   LENGTH: 495
;   TYPE: PRT
;   ORGANISM: Glycine max
US-09-691-270A-24

  Query Match             73.9%;  Score 34;  DB 2;  Length 495;
  Best Local Similarity   62.5%;  Pred. No. 1e+02;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYD 8
              :|||::||
Db        356 ILRRDIYD 363


RESULT 30
US-09-902-540-16475
; Sequence 16475, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
;  APPLICANT: Goldman, Barry S.
;  APPLICANT:  Hinkle, Gregory J.
;  APPLICANT:  Slater, Steven C.
;  APPLICANT:  Wiegand, Roger C.
;  TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
;  FILE REFERENCE: 38-10(15849)B
;  CURRENT APPLICATION NUMBER: US/09/902,540
;  CURRENT FILING DATE:  2001-07-10
;  PRIOR APPLICATION NUMBER: 60/217,883
;  PRIOR FILING DATE: 2000-07-10
;  NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 16475
;   LENGTH: 792
;   TYPE: PRT
;   ORGANISM: Myxococcus xanthus
US-09-902-540-16475

  Query Match             73.9%;  Score 34;  DB 2;  Length 792;
  Best Local Similarity   87.5%;  Pred. No. 1.7e+02;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LLRREVYD 8
              || |||||
Db         15 LLAREVYD 22


RESULT 31
US-09-605-703B-2122
; Sequence 2122, Application US/09605703B
; Patent No. 6962989
; GENERAL INFORMATION:
;  APPLICANT: Pompejus, Markus
;  APPLICANT:  Kroger, Burkhard
;  APPLICANT:  Schroder, Hartwig
;  APPLICANT:  Zelder, Oskar
;  APPLICANT:  Haberhauer, Gregor
;  TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING NOVEL
;  TITLE OF INVENTION:  PROTEINS
;  FILE REFERENCE: BGI-129CP
;  CURRENT APPLICATION NUMBER: US/09/605,703B
;  CURRENT FILING DATE:  2000-06-27
;  PRIOR APPLICATION NUMBER: 60/142,764
;  PRIOR FILING DATE: 1999-07-08
;  PRIOR APPLICATION NUMBER: 60/152,318
;  PRIOR FILING DATE: 1999-09-03
;  NUMBER OF SEQ ID NOS: 2934
; SEQ ID NO 2122
;   LENGTH: 168
;   TYPE: PRT
;   ORGANISM: Corynebacterium glutamicum
US-09-605-703B-2122

  Query Match             71.7%;  Score 33;  DB 2;  Length 168;
  Best Local Similarity   62.5%;  Pred. No. 50;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 LRREVYDF 9
              ::||||:|
Db         69 IKREVYEF 76


RESULT 32
US-09-710-279-388
; Sequence 388, Application US/09710279
; Patent No. 6703492
; GENERAL INFORMATION:
;  APPLICANT: KIMMERLY, WILLIAM JOHN
;  TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
;  FILE REFERENCE: PU3480US
;  CURRENT APPLICATION NUMBER: US/09/710,279
;  CURRENT FILING DATE:  2000-11-09
;  PRIOR APPLICATION NUMBER: 60/164,258
;  PRIOR FILING DATE: 1999-11-09
;  NUMBER OF SEQ ID NOS: 4472
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 388
;   LENGTH: 264
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: synthetic
;   OTHER INFORMATION: amino acid sequence
US-09-710-279-388

  Query Match             71.7%;  Score 33;  DB 2;  Length 264;
  Best Local Similarity   71.4%;  Pred. No. 82;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 RREVYDF 9
              :||:|||
Db         72 QREIYDF 78


RESULT 33
US-09-134-001C-4919
; Sequence 4919, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
;  APPLICANT: Lynn Doucette-Stamm et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
;  TITLE OF INVENTION:  EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: GTC-007
;  CURRENT APPLICATION NUMBER: US/09/134,001C
;  CURRENT FILING DATE:  1998-08-13
;  PRIOR APPLICATION NUMBER: US 60/064,964
```

```
;  PRIOR FILING DATE: 1997-11-08
;  PRIOR APPLICATION NUMBER: US 60/055,779
;  PRIOR FILING DATE: 1997-08-14
;  NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 4919
;   LENGTH: 269
;   TYPE: PRT
;   ORGANISM: Staphylococcus epidermidis
US-09-134-001C-4919

  Query Match             71.7%;  Score 33;  DB 2;  Length 269;
  Best Local Similarity   71.4%;  Pred. No. 83;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 RREVYDF 9
              :||:|||
Db         77 QREIYDF 83


RESULT 34
US-09-248-796A-23606
; Sequence 23606, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 23606
;   LENGTH: 85
;   TYPE: PRT
;   ORGANISM: Candida albicans
US-09-248-796A-23606

  Query Match             69.6%;  Score 32;  DB 2;  Length 85;
  Best Local Similarity   62.5%;  Pred. No. 38;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 LRREVYDF 9
              :| |:|||
Db          7 IRNELYDF 14


RESULT 35
US-09-107-532A-5211
; Sequence 5211, Application US/09107532A
; Patent No. 6583275
;   GENERAL INFORMATION:
;        APPLICANT: Lynn A Doucette-Stamm  and David Bush
;        TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;                            ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
;        NUMBER OF SEQUENCES: 7310
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;             STREET: 100 Beaver Street
;             CITY: Waltham
;             STATE: Massachusetts
;             COUNTRY: USA
;             ZIP: 02354
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: CD/ROM ISO9660
;             COMPUTER: PC
;             OPERATING SYSTEM: <Unknown>
;             SOFTWARE: ASCII
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/107,532A
;             FILING DATE: 30-Jun-1998
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 60/085,598
;             FILING DATE: 14 May 1998
;             APPLICATION NUMBER: 60/051571
;             FILING DATE: July 2, 1997
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Ariniello, Pamela Deneke
;             REGISTRATION NUMBER: 40,489
;             REFERENCE/DOCKET NUMBER: GTC-012
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (781)893-5007
;             TELEFAX: (781)893-8277
;   INFORMATION FOR SEQ ID NO: 5211:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 169 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        HYPOTHETICAL: YES
;        ORIGINAL SOURCE:
;             ORGANISM: Enterococcus faecium
;        FEATURE:
;             NAME/KEY:  misc_feature
;             LOCATION: (B) LOCATION 1...169
;        SEQUENCE DESCRIPTION: SEQ ID NO: 5211:
US-09-107-532A-5211

  Query Match             69.6%;  Score 32;  DB 2;  Length 169;
  Best Local Similarity   83.3%;  Pred. No. 80;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 REVYDF 9
              ||:|||
Db         60 REIYDF 65


RESULT 36
US-09-949-016-7725
; Sequence 7725, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7725
;   LENGTH: 362
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-7725

  Query Match             69.6%;  Score 32;  DB 2;  Length 362;
  Best Local Similarity   75.0%;  Pred. No. 1.8e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 LRREVYDF 9
              ||:| |||
Db        184 LRKEGYDF 191


RESULT 37
US-09-538-092-1109
```

```
; Sequence 1109, Application US/09538092
; Patent No. 6753314
; GENERAL INFORMATION:
;  APPLICANT: Giot, Loic
;  APPLICANT:  Mansfield, Traci A.
;  TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
;  FILE REFERENCE: 15966-542
;  CURRENT APPLICATION NUMBER: US/09/538,092
;  CURRENT FILING DATE:  2000-03-29
;  PRIOR APPLICATION NUMBER: 60/127,352
;  PRIOR FILING DATE: 1999-04-01
;  PRIOR APPLICATION NUMBER: 60/178,965
;  PRIOR FILING DATE: 2000-02-01
;  NUMBER OF SEQ ID NOS: 1387
;  SOFTWARE: CuraPatSeqFormatter Version 0.9
; SEQ ID NO 1109
;   LENGTH: 376
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (0)...(0)
;   OTHER INFORMATION: Polypeptide Accession Number P42024
US-09-538-092-1109

  Query Match             69.6%;  Score 32;  DB 2;  Length 376;
  Best Local Similarity   75.0%;  Pred. No. 1.9e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 LRREVYDF 9
              ||:| |||
Db        198 LRKEGYDF 205


RESULT 38
US-09-248-796A-19185
; Sequence 19185, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 19185
;   LENGTH: 457
;   TYPE: PRT
;   ORGANISM: Candida albicans
US-09-248-796A-19185

  Query Match             69.6%;  Score 32;  DB 2;  Length 457;
  Best Local Similarity   75.0%;  Pred. No. 2.3e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LLRREVYD 8
              :||| |||
Db        274 VLRRRVYD 281


RESULT 39
US-09-790-838-5
; Sequence 5, Application US/09790838
; Patent No. 6489152
; GENERAL INFORMATION:
;  APPLICANT: Meyers, Rachel
;  TITLE OF INVENTION: 32670, No. 6489152el Human Phosphatidylserine
;  TITLE OF INVENTION:  Synthase-Like Molecules and Uses Thereof
;  FILE REFERENCE: 35800/209288
;  CURRENT APPLICATION NUMBER: US/09/790,838
;  CURRENT FILING DATE:  2001-02-22
;  PRIOR APPLICATION NUMBER: 60/185,946
;  PRIOR FILING DATE: 2000-02-29
;  NUMBER OF SEQ ID NOS: 5
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
;   LENGTH: 473
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-09-790-838-5

  Query Match             69.6%;  Score 32;  DB 2;  Length 473;
  Best Local Similarity   83.3%;  Pred. No. 2.4e+02;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 REVYDF 9
              ||:|||
Db        341 REIYDF 346


RESULT 40
US-10-165-800-9
; Sequence 9, Application US/10165800
; Patent No. 6953682
; GENERAL INFORMATION:
;  APPLICANT: Chun, Miyoung
;  APPLICANT:  Glucksmann, Maria Alexandra
;  APPLICANT:  Kapeller-Libermann, Rosana
;  APPLICANT:  Meyers, Rachel E.
;  TITLE OF INVENTION: No. 6953682el Nucleic Acid Sequences Encoding
;  TITLE OF INVENTION:  Adenylate Kinase, Phospholipid Scramblase-Like, DNA
;  TITLE OF INVENTION:  Fragmentation Factor-Like, Phosphatidylserine Synthase-Like,
;  TITLE OF INVENTION:  and ATPase-Like Molecules and Uses Therefor
;  FILE REFERENCE: 35800/247838
;  CURRENT APPLICATION NUMBER: US/10/165,800
;  CURRENT FILING DATE:  2002-06-07
;  PRIOR APPLICATION NUMBER: 09/790,179
;  PRIOR FILING DATE: 2001-02-21
;  PRIOR APPLICATION NUMBER: 60/185,609
;  PRIOR FILING DATE: 2000-02-29
;  PRIOR APPLICATION NUMBER: 09/790,838
;  PRIOR FILING DATE: 2001-02-22
;  PRIOR APPLICATION NUMBER: 60/185,946
;  PRIOR FILING DATE: 2000-02-29
;  PRIOR APPLICATION NUMBER: 09/790,180
;  PRIOR FILING DATE: 2001-02-21
;  PRIOR APPLICATION NUMBER: 60/185,947
;  PRIOR FILING DATE: 2000-02-29
;  PRIOR APPLICATION NUMBER: 09/795,038
;  PRIOR FILING DATE: 2001-02-26
;  PRIOR APPLICATION NUMBER: 60/186,234
;  PRIOR FILING DATE: 2000-02-29
;  PRIOR APPLICATION NUMBER: 09/781,677
;  PRIOR FILING DATE: 2001-02-21
;  PRIOR APPLICATION NUMBER: 60/181,705
;  PRIOR FILING DATE: 2000-02-10
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
;   LENGTH: 473
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-10-165-800-9

  Query Match             69.6%;  Score 32;  DB 2;  Length 473;
  Best Local Similarity   83.3%;  Pred. No. 2.4e+02;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 REVYDF 9
              ||:|||
Db        341 REIYDF 346
```

```
RESULT 41
US-09-790-838-4
; Sequence 4, Application US/09790838
; Patent No. 6489152
; GENERAL INFORMATION:
;  APPLICANT: Meyers, Rachel
;  TITLE OF INVENTION: 32670, No. 6489152el Human Phosphatidylserine
;  TITLE OF INVENTION:  Synthase-Like Molecules and Uses Thereof
;  FILE REFERENCE: 35800/209288
;  CURRENT APPLICATION NUMBER: US/09/790,838
;  CURRENT FILING DATE:  2001-02-22
;  PRIOR APPLICATION NUMBER: 60/185,946
;  PRIOR FILING DATE: 2000-02-29
;  NUMBER OF SEQ ID NOS: 5
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
;   LENGTH: 474
;   TYPE: PRT
;   ORGANISM: Cricetulus griseus
US-09-790-838-4

  Query Match             69.6%;  Score 32;  DB 2;  Length 474;
  Best Local Similarity   83.3%;  Pred. No. 2.4e+02;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 REVYDF 9
              ||:|||
Db        341 REIYDF 346


RESULT 42
US-10-165-800-8
; Sequence 8, Application US/10165800
; Patent No. 6953682
; GENERAL INFORMATION:
;  APPLICANT: Chun, Miyoung
;  APPLICANT:  Glucksmann, Maria Alexandra
;  APPLICANT:  Kapeller-Libermann, Rosana
;  APPLICANT:  Meyers, Rachel E.
;  TITLE OF INVENTION: No. 6953682el Nucleic Acid Sequences Encoding
;  TITLE OF INVENTION:  Adenylate Kinase, Phospholipid Scramblase-Like, DNA
;  TITLE OF INVENTION:  Fragmentation Factor-Like, Phosphatidylserine Synthase-Like,
;  TITLE OF INVENTION:  and ATPase-Like Molecules and Uses Therefor
;  FILE REFERENCE: 35800/247838
;  CURRENT APPLICATION NUMBER: US/10/165,800
;  CURRENT FILING DATE:  2002-06-07
;  PRIOR APPLICATION NUMBER: 09/790,179
;  PRIOR FILING DATE: 2001-02-21
;  PRIOR APPLICATION NUMBER: 60/185,609
;  PRIOR FILING DATE: 2000-02-29
;  PRIOR APPLICATION NUMBER: 09/790,838
;  PRIOR FILING DATE: 2001-02-22
;  PRIOR APPLICATION NUMBER: 60/185,946
;  PRIOR FILING DATE: 2000-02-29
;  PRIOR APPLICATION NUMBER: 09/790,180
;  PRIOR FILING DATE: 2001-02-21
;  PRIOR APPLICATION NUMBER: 60/185,947
;  PRIOR FILING DATE: 2000-02-29
;  PRIOR APPLICATION NUMBER: 09/795,038
;  PRIOR FILING DATE: 2001-02-26
;  PRIOR APPLICATION NUMBER: 60/186,234
;  PRIOR FILING DATE: 2000-02-29
;  PRIOR APPLICATION NUMBER: 09/781,677
;  PRIOR FILING DATE: 2001-02-21
;  PRIOR APPLICATION NUMBER: 60/181,705
;  PRIOR FILING DATE: 2000-02-10
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 474
;   TYPE: PRT
;   ORGANISM: Cricetulus griseus
US-10-165-800-8

  Query Match             69.6%;  Score 32;  DB 2;  Length 474;
  Best Local Similarity   83.3%;  Pred. No. 2.4e+02;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 REVYDF 9
              ||:|||
Db        341 REIYDF 346


RESULT 43
US-09-790-838-2
; Sequence 2, Application US/09790838
; Patent No. 6489152
; GENERAL INFORMATION:
;  APPLICANT: Meyers, Rachel
;  TITLE OF INVENTION: 32670, No. 6489152el Human Phosphatidylserine
;  TITLE OF INVENTION:  Synthase-Like Molecules and Uses Thereof
;  FILE REFERENCE: 35800/209288
;  CURRENT APPLICATION NUMBER: US/09/790,838
;  CURRENT FILING DATE:  2001-02-22
;  PRIOR APPLICATION NUMBER: 60/185,946
;  PRIOR FILING DATE: 2000-02-29
;  NUMBER OF SEQ ID NOS: 5
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 487
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-790-838-2

  Query Match             69.6%;  Score 32;  DB 2;  Length 487;
  Best Local Similarity   83.3%;  Pred. No. 2.5e+02;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 REVYDF 9
              ||:|||
Db        363 REIYDF 368


RESULT 44
US-10-165-800-6
; Sequence 6, Application US/10165800
; Patent No. 6953682
; GENERAL INFORMATION:
;  APPLICANT: Chun, Miyoung
;  APPLICANT:  Glucksmann, Maria Alexandra
;  APPLICANT:  Kapeller-Libermann, Rosana
;  APPLICANT:  Meyers, Rachel E.
;  TITLE OF INVENTION: No. 6953682el Nucleic Acid Sequences Encoding
;  TITLE OF INVENTION:  Adenylate Kinase, Phospholipid Scramblase-Like, DNA
;  TITLE OF INVENTION:  Fragmentation Factor-Like, Phosphatidylserine Synthase-Like,
;  TITLE OF INVENTION:  and ATPase-Like Molecules and Uses Therefor
;  FILE REFERENCE: 35800/247838
;  CURRENT APPLICATION NUMBER: US/10/165,800
;  CURRENT FILING DATE:  2002-06-07
;  PRIOR APPLICATION NUMBER: 09/790,179
;  PRIOR FILING DATE: 2001-02-21
;  PRIOR APPLICATION NUMBER: 60/185,609
;  PRIOR FILING DATE: 2000-02-29
;  PRIOR APPLICATION NUMBER: 09/790,838
;  PRIOR FILING DATE: 2001-02-22
;  PRIOR APPLICATION NUMBER: 60/185,946
;  PRIOR FILING DATE: 2000-02-29
;  PRIOR APPLICATION NUMBER: 09/790,180
;  PRIOR FILING DATE: 2001-02-21
;  PRIOR APPLICATION NUMBER: 60/185,947
;  PRIOR FILING DATE: 2000-02-29
;  PRIOR APPLICATION NUMBER: 09/795,038
;  PRIOR FILING DATE: 2001-02-26
;  PRIOR APPLICATION NUMBER: 60/186,234
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;  PRIOR FILING DATE: 2000-02-29
;  PRIOR APPLICATION NUMBER: 09/781,677
;  PRIOR FILING DATE: 2001-02-21
;  PRIOR APPLICATION NUMBER: 60/181,705
;  PRIOR FILING DATE: 2000-02-10
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
;   LENGTH: 487
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-165-800-6

  Query Match             69.6%;  Score 32;  DB 2;  Length 487;
  Best Local Similarity   83.3%;  Pred. No. 2.5e+02;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 REVYDF 9
              ||:|||
Db        363 REIYDF 368


RESULT 45
US-09-424-783-2
; Sequence 2, Application US/09424783
; Patent No. 6780608
; GENERAL INFORMATION:
;  APPLICANT: Hakamata, Yasuhiro
;  APPLICANT:  Nishimura, Seiichiro
;  APPLICANT:  Barsoumian, Edward Leon
;  TITLE OF INVENTION: Human Type 3 Ryanodine Receptor Protein
;  TITLE OF INVENTION:  and DNA Molecules Coding Therefor
;  FILE REFERENCE: 0652.2000000
;  CURRENT APPLICATION NUMBER: US/09/424,783
;  CURRENT FILING DATE:  1999-12-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/02926
;  PRIOR FILING DATE: 1998-05-18
;  PRIOR APPLICATION NUMBER: DE 197 22 317.6
;  PRIOR FILING DATE: 1997-05-28
;  NUMBER OF SEQ ID NOS: 11
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
;   LENGTH: 4866
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-424-783-2

  Query Match             69.6%;  Score 32;  DB 2;  Length 4866;
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  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 LRREVYDF 9
              :| |:|||
Db       1893 IREELYDF 1900


RESULT 46
US-09-424-783-3
; Sequence 3, Application US/09424783
; Patent No. 6780608
; GENERAL INFORMATION:
;  APPLICANT: Hakamata, Yasuhiro
;  APPLICANT:  Nishimura, Seiichiro
;  APPLICANT:  Barsoumian, Edward Leon
;  TITLE OF INVENTION: Human Type 3 Ryanodine Receptor Protein
;  TITLE OF INVENTION:  and DNA Molecules Coding Therefor
;  FILE REFERENCE: 0652.2000000
;  CURRENT APPLICATION NUMBER: US/09/424,783
;  CURRENT FILING DATE:  1999-12-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/02926
;  PRIOR FILING DATE: 1998-05-18
;  PRIOR APPLICATION NUMBER: DE 197 22 317.6
;  PRIOR FILING DATE: 1997-05-28
;  NUMBER OF SEQ ID NOS: 11
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 4872
;   TYPE: PRT
;   ORGANISM: Oryctolagus cuniculus
US-09-424-783-3

  Query Match             69.6%;  Score 32;  DB 2;  Length 4872;
  Best Local Similarity   62.5%;  Pred. No. 3e+03;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 LRREVYDF 9
              :| |:|||
Db       1896 IREELYDF 1903


RESULT 47
US-10-311-886-25
; Sequence 25, Application US/10311886
; Patent No. 6936703
; GENERAL INFORMATION:
;  APPLICANT: K.U. LEUVEN Research and Development et al.
;  TITLE OF INVENTION: Biocatalyst inhibitors
;  FILE REFERENCE: PCT/BE 01/00106
;  CURRENT APPLICATION NUMBER: US/10/311,886
;  CURRENT FILING DATE:  2002-12-23
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 25
;   LENGTH: 102
;   TYPE: PRT
;   ORGANISM: Secale cereale
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(102)
;   OTHER INFORMATION: part of a xylanase inhibitor encoded by SEQ ID NO 23
US-10-311-886-25

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  Best Local Similarity   85.7%;  Pred. No. 74;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVY 7
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Db         56 LLRRDVY 62


RESULT 48
US-10-311-886-11
; Sequence 11, Application US/10311886
; Patent No. 6936703
; GENERAL INFORMATION:
;  APPLICANT: K.U. LEUVEN Research and Development et al.
;  TITLE OF INVENTION: Biocatalyst inhibitors
;  FILE REFERENCE: PCT/BE 01/00106
;  CURRENT APPLICATION NUMBER: US/10/311,886
;  CURRENT FILING DATE:  2002-12-23
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 11
;   LENGTH: 185
;   TYPE: PRT
;   ORGANISM: Hordeum vulgare
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(185)
;   OTHER INFORMATION: part of a xylanase inhibitor, a HVXI variant,
;   OTHER INFORMATION: wherein the first Xaa is unknown and the second Xaa is unknown
;   OTHER INFORMATION: (derived from an EST-sequence)
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (72)..(72)
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;   OTHER INFORMATION: unknown
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (185)..(185)
;   OTHER INFORMATION: unknown
US-10-311-886-11

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  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVY 7
              ||||:||
Db        102 LLRRDVY 108


RESULT 49
US-10-311-886-12
; Sequence 12, Application US/10311886
; Patent No. 6936703
; GENERAL INFORMATION:
;  APPLICANT: K.U. LEUVEN Research and Development et al.
;  TITLE OF INVENTION: Biocatalyst inhibitors
;  FILE REFERENCE: PCT/BE 01/00106
;  CURRENT APPLICATION NUMBER: US/10/311,886
;  CURRENT FILING DATE:  2002-12-23
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 12
;   LENGTH: 185
;   TYPE: PRT
;   ORGANISM: Hordeum vulgare
;   FEATURE:
;   NAME/KEY: VARIANT
;   LOCATION: (1)..(185)
;   OTHER INFORMATION: variant of SEQ ID NO 11
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (72)..(72)
;   OTHER INFORMATION: unknown
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (185)..(185)
;   OTHER INFORMATION: unknown
US-10-311-886-12

  Query Match             67.4%;  Score 31;  DB 2;  Length 185;
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  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVY 7
              ||||:||
Db        102 LLRRDVY 108


RESULT 50
US-10-311-886-13
; Sequence 13, Application US/10311886
; Patent No. 6936703
; GENERAL INFORMATION:
;  APPLICANT: K.U. LEUVEN Research and Development et al.
;  TITLE OF INVENTION: Biocatalyst inhibitors
;  FILE REFERENCE: PCT/BE 01/00106
;  CURRENT APPLICATION NUMBER: US/10/311,886
;  CURRENT FILING DATE:  2002-12-23
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 13
;   LENGTH: 185
;   TYPE: PRT
;   ORGANISM: Hordeum vulgare
;   FEATURE:
;   NAME/KEY: VARIANT
;   LOCATION: (1)..(185)
;   OTHER INFORMATION: variant of SEQ ID NO 11
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (72)..(72)
;   OTHER INFORMATION: unknown
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (128)..(128)
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;   OTHER INFORMATION: Gly, Asn and Cys
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;   NAME/KEY: MISC_FEATURE
;   LOCATION: (132)..(132)
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;   OTHER INFORMATION: Gly, Asn and Cys
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (134)..(134)
;   OTHER INFORMATION: unknown, possibly one of the group Pro, Ala, Asp, Leu,
;   OTHER INFORMATION: Gly, Asn and Cys
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (148)..(148)
;   OTHER INFORMATION: unknown, possibly one of the group Pro, Ala, Asp, Leu,
;   OTHER INFORMATION: Gly, Asn and Cys
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (185)..(185)
;   OTHER INFORMATION: unknown
US-10-311-886-13

  Query Match             67.4%;  Score 31;  DB 2;  Length 185;
  Best Local Similarity   85.7%;  Pred. No. 1.4e+02;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVY 7
              ||||:||
Db        102 LLRRDVY 108


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OM protein - protein search, using sw model

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Title: US-08-170-344-66
Perfect score: 46
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Post-processing: Minimum Match 0%
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Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 3 | 46 | 100.0 | 15 | 5 | US-10-484-063-4 | Sequence 4, Appli |
| 4 | 46 | 100.0 | 23 | 4 | US-10-476-570-27 | Sequence 27, Appl |
| 5 | 46 | 100.0 | 24 | 5 | US-10-751-845-65 | Sequence 65, Appl |
| 6 | 46 | 100.0 | 117 | 5 | US-10-751-845-126 | Sequence 126, App |
| 7 | 46 | 100.0 | 151 | 4 | US-10-177-390-6 | Sequence 6, Appli |
| 8 | 46 | 100.0 | 151 | 5 | US-10-484-063-20 | Sequence 20, Appl |
| 9 | 46 | 100.0 | 151 | 5 | US-10-484-063-27 | Sequence 27, Appl |
| 10 | 46 | 100.0 | 158 | 5 | US-10-858-384-2 | Sequence 2, Appli |
| 11 | 46 | 100.0 | 158 | 5 | US-10-367-057-16 | Sequence 16, Appl |
| 12 | 46 | 100.0 | 158 | 6 | US-11-021-949-13 | Sequence 13, Appl |
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| 17 | 46 | 100.0 | 261 | 5 | US-10-751-845-160 | Sequence 160, App |
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| 23 | 46 | 100.0 | 371 | 4 | US-10-000-903-6 | Sequence 6, Appli |
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| 27 | 46 | 100.0 | 536 | 4 | US-10-367-095-10 | Sequence 10, Appl |
| 28 | 46 | 100.0 | 536 | 4 | US-10-368-046-10 | Sequence 10, Appl |
| 29 | 46 | 100.0 | 536 | 4 | US-10-367-367-10 | Sequence 10, Appl |
| 30 | 46 | 100.0 | 536 | 5 | US-10-918-337-10 | Sequence 10, Appl |
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| 32 | 38 | 82.6 | 9 | 5 | US-10-751-845-72 | Sequence 72, Appl |
| 33 | 38 | 82.6 | 21 | 4 | US-10-476-570-54 | Sequence 54, Appl |
| 34 | 38 | 82.6 | 22 | 5 | US-10-858-384-6 | Sequence 6, Appli |
| 35 | 37 | 80.4 | 99 | 5 | US-10-508-622-28 | Sequence 28, Appl |
| 36 | 36 | 78.3 | 620 | 4 | US-10-108-260A-4145 | Sequence 4145, Ap |
| 37 | 35 | 76.1 | 77 | 4 | US-10-424-599-242846 | Sequence 242846, |
| 38 | 35 | 76.1 | 148 | 6 | US-11-021-949-19 | Sequence 19, Appl |
| 39 | 35 | 76.1 | 234 | 4 | US-10-767-701-31810 | Sequence 31810, A |
| 40 | 35 | 76.1 | 287 | 4 | US-10-270-875-48 | Sequence 48, Appl |
| 41 | 35 | 76.1 | 287 | 4 | US-10-270-878-48 | Sequence 48, Appl |
| 42 | 35 | 76.1 | 287 | 4 | US-10-270-786-48 | Sequence 48, Appl |
| 43 | 35 | 76.1 | 287 | 4 | US-10-270-710-48 | Sequence 48, Appl |
| 44 | 35 | 76.1 | 287 | 4 | US-10-270-859-48 | Sequence 48, Appl |
| 45 | 35 | 76.1 | 287 | 4 | US-10-270-846-48 | Sequence 48, Appl |
| 46 | 35 | 76.1 | 377 | 4 | US-10-289-762-654 | Sequence 654, App |
| 47 | 35 | 76.1 | 468 | 4 | US-10-282-122A-54740 | Sequence 54740, A |
| 48 | 35 | 76.1 | 472 | 4 | US-10-282-122A-55283 | Sequence 55283, A |
| 49 | 34 | 73.9 | 9 | 4 | US-10-239-313A-525 | Sequence 525, App |
| 50 | 34 | 73.9 | 15 | 4 | US-10-476-570-25 | Sequence 25, Appl |
| 51 | 34 | 73.9 | 21 | 4 | US-10-476-570-10 | Sequence 10, Appl |
| 52 | 34 | 73.9 | 149 | 6 | US-11-021-949-14 | Sequence 14, Appl |
| 53 | 34 | 73.9 | 149 | 6 | US-11-021-949-15 | Sequence 15, Appl |
| 54 | 34 | 73.9 | 149 | 6 | US-11-021-949-16 | Sequence 16, Appl |
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| 56 | 34 | 73.9 | 412 | 4 | US-10-424-599-252594 | Sequence 252594, |
| 57 | 34 | 73.9 | 482 | 4 | US-10-425-115-208101 | Sequence 208101, |
| 58 | 34 | 73.9 | 617 | 5 | US-10-739-930-10467 | Sequence 10467, A |
| 59 | 34 | 73.9 | 659 | 4 | US-10-437-963-133069 | Sequence 133069, |
| 60 | 34 | 73.9 | 683 | 6 | US-11-097-143-2325 | Sequence 2325, Ap |
| 61 | 34 | 73.9 | 769 | 6 | US-11-097-143-9501 | Sequence 9501, Ap |
| 62 | 34 | 73.9 | 778 | 4 | US-10-369-493-1806 | Sequence 1806, Ap |
| 63 | 34 | 73.9 | 787 | 6 | US-11-097-143-2328 | Sequence 2328, Ap |
| 64 | 33 | 71.7 | 87 | 4 | US-10-424-599-155399 | Sequence 155399, |
| 65 | 33 | 71.7 | 148 | 6 | US-11-021-949-17 | Sequence 17, Appl |
| 66 | 33 | 71.7 | 148 | 6 | US-11-021-949-359 | Sequence 359, App |
| 67 | 33 | 71.7 | 149 | 6 | US-11-021-949-360 | Sequence 360, App |
| 68 | 33 | 71.7 | 168 | 3 | US-09-738-626-5889 | Sequence 5889, Ap |
| 69 | 33 | 71.7 | 175 | 4 | US-10-767-701-54218 | Sequence 54218, A |
| 70 | 33 | 71.7 | 207 | 4 | US-10-425-114-51855 | Sequence 51855, A |
| 71 | 33 | 71.7 | 208 | 4 | US-10-425-115-241115 | Sequence 241115, |
| 72 | 33 | 71.7 | 211 | 4 | US-10-767-701-36835 | Sequence 36835, A |
| 73 | 33 | 71.7 | 231 | 4 | US-10-424-599-262641 | Sequence 262641, |
| 74 | 33 | 71.7 | 258 | 4 | US-10-437-963-158121 | Sequence 158121, |
| 75 | 33 | 71.7 | 264 | 4 | US-10-282-122A-70966 | Sequence 70966, A |
| 76 | 33 | 71.7 | 264 | 4 | US-10-282-122A-71636 | Sequence 71636, A |
| 77 | 33 | 71.7 | 265 | 3 | US-09-815-242-12332 | Sequence 12332, A |
| 78 | 33 | 71.7 | 265 | 3 | US-09-815-242-12870 | Sequence 12870, A |
| 79 | 33 | 71.7 | 265 | 3 | US-09-815-242-13144 | Sequence 13144, A |
| 80 | 33 | 71.7 | 265 | 4 | US-10-282-122A-70319 | Sequence 70319, A |
| 81 | 33 | 71.7 | 266 | 6 | US-11-097-143-12180 | Sequence 12180, A |
| 82 | 33 | 71.7 | 269 | 4 | US-10-724-972A-4230 | Sequence 4230, Ap |
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| 85 | 33 | 71.7 | 273 | 5 | US-10-474-792-650 | Sequence 650, App |
| 86 | 33 | 71.7 | 323 | 4 | US-10-437-963-116063 | Sequence 116063, |
| 87 | 33 | 71.7 | 325 | 4 | US-10-425-114-39201 | Sequence 39201, A |
| 88 | 33 | 71.7 | 325 | 4 | US-10-425-115-208099 | Sequence 208099, |
| 89 | 33 | 71.7 | 449 | 4 | US-10-078-770-176 | Sequence 176, App |
| 90 | 33 | 71.7 | 452 | 4 | US-10-369-493-12797 | Sequence 12797, A |
| 91 | 33 | 71.7 | 561 | 4 | US-10-369-493-23313 | Sequence 23313, A |
| 92 | 33 | 71.7 | 702 | 4 | US-10-437-963-204196 | Sequence 204196, |
| 93 | 32 | 69.6 | 85 | 4 | US-10-424-599-268787 | Sequence 268787, |
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| 97 | 32 | 69.6 | 301 | 3 | US-09-925-300-1021 | Sequence 1021, Ap |
| 98 | 32 | 69.6 | 316 | 4 | US-10-425-114-55782 | Sequence 55782, A |
| 99 | 32 | 69.6 | 324 | 4 | US-10-424-599-144567 | Sequence 144567, |
| 100 | 32 | 69.6 | 324 | 4 | US-10-425-114-42126 | Sequence 42126, A |

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| 101 | 32 | 69.6 | 326 | 4 | US-10-094-749-1746 | Sequence 1746, Ap |
| 102 | 32 | 69.6 | 376 | 5 | US-10-491-545A-86 | Sequence 86, Appl |
| 103 | 32 | 69.6 | 383 | 4 | US-10-437-963-174028 | Sequence 174028, |
| 104 | 32 | 69.6 | 398 | 5 | US-10-450-763-49364 | Sequence 49364, A |
| 105 | 32 | 69.6 | 401 | 3 | US-09-729-674-2 | Sequence 2, Appli |
| 106 | 32 | 69.6 | 401 | 5 | US-10-913-553-2 | Sequence 2, Appli |
| 107 | 32 | 69.6 | 437 | 5 | US-10-501-282-4612 | Sequence 4612, Ap |
| 108 | 32 | 69.6 | 473 | 4 | US-10-165-800-9 | Sequence 9, Appli |
| 109 | 32 | 69.6 | 474 | 4 | US-10-165-800-8 | Sequence 8, Appli |
| 110 | 32 | 69.6 | 475 | 4 | US-10-093-463-76 | Sequence 76, Appl |
| 111 | 32 | 69.6 | 487 | 4 | US-10-165-800-6 | Sequence 6, Appli |
| 112 | 32 | 69.6 | 487 | 4 | US-10-303-664A-48 | Sequence 48, Appl |
| 113 | 32 | 69.6 | 493 | 4 | US-10-424-599-244376 | Sequence 244376, |
| 114 | 32 | 69.6 | 566 | 4 | US-10-282-122A-53631 | Sequence 53631, A |
| 115 | 32 | 69.6 | 810 | 4 | US-10-320-797-3303 | Sequence 3303, Ap |
| 116 | 32 | 69.6 | 917 | 4 | US-10-369-493-4128 | Sequence 4128, Ap |
| 117 | 32 | 69.6 | 1000 | 4 | US-10-437-963-122779 | Sequence 122779, |
| 118 | 32 | 69.6 | 1461 | 4 | US-10-032-585-7629 | Sequence 7629, Ap |
| 119 | 32 | 69.6 | 4870 | 4 | US-10-764-425-144 | Sequence 144, App |
| 120 | 32 | 69.6 | 4899 | 5 | US-10-450-763-42673 | Sequence 42673, A |
| 121 | 32 | 69.6 | 4934 | 5 | US-10-450-763-53705 | Sequence 53705, A |
| 122 | 31 | 67.4 | 48 | 4 | US-10-424-599-270674 | Sequence 270674, |
| 123 | 31 | 67.4 | 65 | 4 | US-10-437-963-147087 | Sequence 147087, |
| 124 | 31 | 67.4 | 67 | 4 | US-10-425-115-354288 | Sequence 354288, |
| 125 | 31 | 67.4 | 99 | 4 | US-10-282-122A-74290 | Sequence 74290, A |
| 126 | 31 | 67.4 | 102 | 4 | US-10-311-886-25 | Sequence 25, Appl |
| 127 | 31 | 67.4 | 107 | 3 | US-09-815-242-5736 | Sequence 5736, Ap |
| 128 | 31 | 67.4 | 110 | 3 | US-09-815-242-12127 | Sequence 12127, A |
| 129 | 31 | 67.4 | 110 | 3 | US-09-815-242-13065 | Sequence 13065, A |
| 130 | 31 | 67.4 | 110 | 4 | US-10-282-122A-44281 | Sequence 44281, A |
| 131 | 31 | 67.4 | 117 | 4 | US-10-425-115-275025 | Sequence 275025, |
| 132 | 31 | 67.4 | 125 | 4 | US-10-425-114-45219 | Sequence 45219, A |
| 133 | 31 | 67.4 | 133 | 4 | US-10-335-977-5429 | Sequence 5429, Ap |
| 134 | 31 | 67.4 | 144 | 4 | US-10-425-115-329517 | Sequence 329517, |
| 135 | 31 | 67.4 | 148 | 4 | US-10-109-048-958 | Sequence 958, App |
| 136 | 31 | 67.4 | 148 | 4 | US-10-109-048-963 | Sequence 963, App |
| 137 | 31 | 67.4 | 185 | 4 | US-10-311-886-11 | Sequence 11, Appl |
| 138 | 31 | 67.4 | 185 | 4 | US-10-311-886-12 | Sequence 12, Appl |
| 139 | 31 | 67.4 | 185 | 4 | US-10-311-886-13 | Sequence 13, Appl |
| 140 | 31 | 67.4 | 189 | 4 | US-10-335-977-5430 | Sequence 5430, Ap |
| 141 | 31 | 67.4 | 191 | 4 | US-10-424-599-185802 | Sequence 185802, |
| 142 | 31 | 67.4 | 198 | 4 | US-10-425-115-272359 | Sequence 272359, |
| 143 | 31 | 67.4 | 205 | 4 | US-10-335-977-5431 | Sequence 5431, Ap |
| 144 | 31 | 67.4 | 208 | 3 | US-09-765-272-214 | Sequence 214, App |
| 145 | 31 | 67.4 | 208 | 6 | US-11-106-649-214 | Sequence 214, App |
| 146 | 31 | 67.4 | 214 | 4 | US-10-211-462-173 | Sequence 173, App |
| 147 | 31 | 67.4 | 270 | 4 | US-10-067-989-4 | Sequence 4, Appli |
| 148 | 31 | 67.4 | 271 | 3 | US-09-815-242-13292 | Sequence 13292, A |
| 149 | 31 | 67.4 | 271 | 4 | US-10-282-122A-74041 | Sequence 74041, A |
| 150 | 31 | 67.4 | 271 | 5 | US-10-472-928-2828 | Sequence 2828, Ap |
| 151 | 31 | 67.4 | 277 | 5 | US-10-617-320-4059 | Sequence 4059, Ap |
| 152 | 31 | 67.4 | 289 | 4 | US-10-424-599-192793 | Sequence 192793, |
| 153 | 31 | 67.4 | 310 | 4 | US-10-437-963-137053 | Sequence 137053, |
| 154 | 31 | 67.4 | 314 | 4 | US-10-101-464A-728 | Sequence 728, App |
| 155 | 31 | 67.4 | 314 | 5 | US-10-864-252-728 | Sequence 728, App |
| 156 | 31 | 67.4 | 319 | 4 | US-10-369-493-16421 | Sequence 16421, A |
| 157 | 31 | 67.4 | 335 | 3 | US-09-943-671-21 | Sequence 21, Appl |
| 158 | 31 | 67.4 | 335 | 4 | US-10-405-877-21 | Sequence 21, Appl |
| 159 | 31 | 67.4 | 353 | 4 | US-10-424-599-233641 | Sequence 233641, |
| 160 | 31 | 67.4 | 381 | 4 | US-10-311-886-7 | Sequence 7, Appli |
| 161 | 31 | 67.4 | 381 | 4 | US-10-311-886-8 | Sequence 8, Appli |
| 162 | 31 | 67.4 | 381 | 4 | US-10-311-886-9 | Sequence 9, Appli |
| 163 | 31 | 67.4 | 390 | 5 | US-10-732-923-4197 | Sequence 4197, Ap |
| 164 | 31 | 67.4 | 392 | 4 | US-10-369-493-8869 | Sequence 8869, Ap |
| 165 | 31 | 67.4 | 393 | 4 | US-10-190-279-2 | Sequence 2, Appli |
| 166 | 31 | 67.4 | 435 | 3 | US-09-815-242-5283 | Sequence 5283, Ap |
| 167 | 31 | 67.4 | 435 | 4 | US-10-282-122A-61996 | Sequence 61996, A |
| 168 | 31 | 67.4 | 436 | 3 | US-09-815-242-12600 | Sequence 12600, A |
| 169 | 31 | 67.4 | 436 | 3 | US-09-815-242-12732 | Sequence 12732, A |
| 170 | 31 | 67.4 | 436 | 3 | US-09-769-744A-68 | Sequence 68, Appl |
| 171 | 31 | 67.4 | 436 | 4 | US-10-190-279-5 | Sequence 5, Appli |
| 172 | 31 | 67.4 | 436 | 4 | US-10-282-122A-43793 | Sequence 43793, A |
| 173 | 31 | 67.4 | 436 | 4 | US-10-282-122A-70602 | Sequence 70602, A |
| 174 | 31 | 67.4 | 436 | 4 | US-10-282-122A-74126 | Sequence 74126, A |
| 175 | 31 | 67.4 | 436 | 4 | US-10-282-122A-74394 | Sequence 74394, A |
| 176 | 31 | 67.4 | 436 | 5 | US-10-472-928-3524 | Sequence 3524, Ap |
| 177 | 31 | 67.4 | 436 | 5 | US-10-857-625-660 | Sequence 660, App |
| 178 | 31 | 67.4 | 438 | 5 | US-10-617-320-3092 | Sequence 3092, Ap |
| 179 | 31 | 67.4 | 442 | 4 | US-10-437-963-104636 | Sequence 104636, |
| 180 | 31 | 67.4 | 443 | 4 | US-10-724-972A-4158 | Sequence 4158, Ap |
| 181 | 31 | 67.4 | 450 | 4 | US-10-424-599-252593 | Sequence 252593, |
| 182 | 31 | 67.4 | 483 | 4 | US-10-369-493-18358 | Sequence 18358, A |
| 183 | 31 | 67.4 | 494 | 4 | US-10-724-972A-4379 | Sequence 4379, Ap |
| 184 | 31 | 67.4 | 619 | 4 | US-10-405-877-37 | Sequence 37, Appl |
| 185 | 31 | 67.4 | 619 | 4 | US-10-405-877-40 | Sequence 40, Appl |
| 186 | 31 | 67.4 | 619 | 4 | US-10-405-877-57 | Sequence 57, Appl |
| 187 | 31 | 67.4 | 619 | 5 | US-10-741-600-1421 | Sequence 1421, Ap |
| 188 | 31 | 67.4 | 619 | 5 | US-10-741-600-1422 | Sequence 1422, Ap |
| 189 | 31 | 67.4 | 647 | 6 | US-11-097-143-8844 | Sequence 8844, Ap |
| 190 | 31 | 67.4 | 681 | 4 | US-10-369-493-5706 | Sequence 5706, Ap |
| 191 | 31 | 67.4 | 689 | 6 | US-11-097-143-14106 | Sequence 14106, A |
| 192 | 31 | 67.4 | 709 | 6 | US-11-097-143-12354 | Sequence 12354, A |
| 193 | 31 | 67.4 | 748 | 4 | US-10-120-801-36 | Sequence 36, Appl |
| 194 | 31 | 67.4 | 752 | 4 | US-10-120-801-35 | Sequence 35, Appl |
| 195 | 31 | 67.4 | 798 | 4 | US-10-437-963-121352 | Sequence 121352, |
| 196 | 31 | 67.4 | 856 | 4 | US-10-120-801-2 | Sequence 2, Appli |
| 197 | 31 | 67.4 | 856 | 4 | US-10-478-146-1 | Sequence 1, Appli |
| 198 | 31 | 67.4 | 862 | 4 | US-10-211-462-171 | Sequence 171, App |
| 199 | 31 | 67.4 | 868 | 4 | US-10-437-963-176759 | Sequence 176759, |
| 200 | 31 | 67.4 | 870 | 4 | US-10-363-616-345 | Sequence 345, App |
| 201 | 31 | 67.4 | 870 | 4 | US-10-231-956A-352 | Sequence 352, App |
| 202 | 31 | 67.4 | 946 | 3 | US-09-969-528-4 | Sequence 4, Appli |
| 203 | 31 | 67.4 | 1071 | 4 | US-10-451-861-17 | Sequence 17, Appl |
| 204 | 31 | 67.4 | 1071 | 5 | US-10-367-057-45 | Sequence 45, Appl |
| 205 | 31 | 67.4 | 1072 | 4 | US-10-128-714-3380 | Sequence 3380, Ap |
| 206 | 31 | 67.4 | 1084 | 4 | US-10-369-493-21995 | Sequence 21995, A |
| 207 | 31 | 67.4 | 1101 | 4 | US-10-128-714-8380 | Sequence 8380, Ap |
| 208 | 31 | 67.4 | 1140 | 4 | US-10-369-493-6390 | Sequence 6390, Ap |
| 209 | 31 | 67.4 | 1178 | 4 | US-10-320-797-3347 | Sequence 3347, Ap |
| 210 | 31 | 67.4 | 1325 | 6 | US-11-097-143-13329 | Sequence 13329, A |
| 211 | 31 | 67.4 | 1417 | 5 | US-10-732-923-12342 | Sequence 12342, A |
| 212 | 31 | 67.4 | 1422 | 2 | US-08-424-550B-82 | Sequence 82, Appl |
| 213 | 31 | 67.4 | 1465 | 4 | US-10-282-122A-47271 | Sequence 47271, A |
| 214 | 31 | 67.4 | 1615 | 4 | US-10-437-963-160697 | Sequence 160697, |
| 215 | 31 | 67.4 | 1630 | 4 | US-10-437-963-105726 | Sequence 105726, |
| 216 | 31 | 67.4 | 1783 | 4 | US-10-188-832-86 | Sequence 86, Appl |
| 217 | 30 | 65.2 | 21 | 5 | US-10-820-067A-895 | Sequence 895, App |
| 218 | 30 | 65.2 | 34 | 3 | US-09-864-761-41478 | Sequence 41478, A |
| 219 | 30 | 65.2 | 39 | 4 | US-10-223-047-29 | Sequence 29, Appl |
| 220 | 30 | 65.2 | 41 | 4 | US-10-223-047-5 | Sequence 5, Appli |
| 221 | 30 | 65.2 | 41 | 4 | US-10-223-047-6 | Sequence 6, Appli |
| 222 | 30 | 65.2 | 41 | 4 | US-10-223-047-7 | Sequence 7, Appli |
| 223 | 30 | 65.2 | 44 | 3 | US-09-764-891-3516 | Sequence 3516, Ap |
| 224 | 30 | 65.2 | 50 | 4 | US-10-424-599-249627 | Sequence 249627, |
| 225 | 30 | 65.2 | 50 | 4 | US-10-425-115-274493 | Sequence 274493, |
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| 227 | 30 | 65.2 | 60 | 4 | US-10-425-115-193682 | Sequence 193682, |
| 228 | 30 | 65.2 | 61 | 4 | US-10-425-115-274785 | Sequence 274785, |
| 229 | 30 | 65.2 | 70 | 4 | US-10-282-122A-53178 | Sequence 53178, A |
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| 231 | 30 | 65.2 | 78 | 4 | US-10-425-115-328667 | Sequence 328667, |
| 232 | 30 | 65.2 | 89 | 3 | US-09-978-360A-454 | Sequence 454, App |
| 233 | 30 | 65.2 | 89 | 4 | US-10-315-664-122 | Sequence 122, App |
| 234 | 30 | 65.2 | 108 | 4 | US-10-425-115-233349 | Sequence 233349, |
| 235 | 30 | 65.2 | 133 | 4 | US-10-767-701-42487 | Sequence 42487, A |
| 236 | 30 | 65.2 | 144 | 4 | US-10-264-237-1421 | Sequence 1421, Ap |
| 237 | 30 | 65.2 | 145 | 4 | US-10-425-115-262731 | Sequence 262731, |
| 238 | 30 | 65.2 | 155 | 6 | US-11-021-949-22 | Sequence 22, Appl |
| 239 | 30 | 65.2 | 162 | 6 | US-11-021-949-31 | Sequence 31, Appl |
| 240 | 30 | 65.2 | 168 | 4 | US-10-767-701-36800 | Sequence 36800, A |
| 241 | 30 | 65.2 | 172 | 4 | US-10-425-115-275494 | Sequence 275494, |
| 242 | 30 | 65.2 | 176 | 4 | US-10-425-114-46839 | Sequence 46839, A |
| 243 | 30 | 65.2 | 176 | 4 | US-10-767-701-53098 | Sequence 53098, A |
| 244 | 30 | 65.2 | 176 | 4 | US-10-425-115-317462 | Sequence 317462, |
| 245 | 30 | 65.2 | 181 | 4 | US-10-241-220-90 | Sequence 90, Appl |
| 246 | 30 | 65.2 | 181 | 4 | US-10-241-220-91 | Sequence 91, Appl |

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| 247 | 30 | 65.2 | 181 | 4 | US-10-425-114-36729 | Sequence 36729, A |
| 248 | 30 | 65.2 | 181 | 5 | US-10-872-972-90 | Sequence 90, Appl |
| 249 | 30 | 65.2 | 181 | 5 | US-10-872-972-91 | Sequence 91, Appl |
| 250 | 30 | 65.2 | 181 | 5 | US-10-872-991-90 | Sequence 90, Appl |
| 251 | 30 | 65.2 | 181 | 5 | US-10-872-991-91 | Sequence 91, Appl |
| 252 | 30 | 65.2 | 185 | 4 | US-10-289-762-106 | Sequence 106, App |
| 253 | 30 | 65.2 | 191 | 3 | US-09-828-644-96 | Sequence 96, Appl |
| 254 | 30 | 65.2 | 193 | 4 | US-10-094-749-1979 | Sequence 1979, Ap |
| 255 | 30 | 65.2 | 195 | 4 | US-10-101-235A-9 | Sequence 9, Appli |
| 256 | 30 | 65.2 | 197 | 4 | US-10-028-248A-12 | Sequence 12, Appl |
| 257 | 30 | 65.2 | 197 | 4 | US-10-107-782-12 | Sequence 12, Appl |
| 258 | 30 | 65.2 | 204 | 4 | US-10-101-235A-2 | Sequence 2, Appli |
| 259 | 30 | 65.2 | 207 | 4 | US-10-028-248A-55 | Sequence 55, Appl |
| 260 | 30 | 65.2 | 207 | 4 | US-10-028-248A-59 | Sequence 59, Appl |
| 261 | 30 | 65.2 | 207 | 4 | US-10-107-782-55 | Sequence 55, Appl |
| 262 | 30 | 65.2 | 207 | 4 | US-10-107-782-59 | Sequence 59, Appl |
| 263 | 30 | 65.2 | 208 | 4 | US-10-241-220-88 | Sequence 88, Appl |
| 264 | 30 | 65.2 | 208 | 4 | US-10-241-220-89 | Sequence 89, Appl |
| 265 | 30 | 65.2 | 208 | 4 | US-10-028-248A-56 | Sequence 56, Appl |
| 266 | 30 | 65.2 | 208 | 4 | US-10-028-248A-57 | Sequence 57, Appl |
| 267 | 30 | 65.2 | 208 | 4 | US-10-028-248A-58 | Sequence 58, Appl |
| 268 | 30 | 65.2 | 208 | 4 | US-10-107-782-56 | Sequence 56, Appl |
| 269 | 30 | 65.2 | 208 | 4 | US-10-107-782-57 | Sequence 57, Appl |
| 270 | 30 | 65.2 | 208 | 4 | US-10-107-782-58 | Sequence 58, Appl |
| 271 | 30 | 65.2 | 208 | 5 | US-10-872-972-88 | Sequence 88, Appl |
| 272 | 30 | 65.2 | 208 | 5 | US-10-872-972-89 | Sequence 89, Appl |
| 273 | 30 | 65.2 | 208 | 5 | US-10-872-991-88 | Sequence 88, Appl |
| 274 | 30 | 65.2 | 208 | 5 | US-10-872-991-89 | Sequence 89, Appl |
| 275 | 30 | 65.2 | 208 | 5 | US-10-873-419-3 | Sequence 3, Appli |
| 276 | 30 | 65.2 | 208 | 5 | US-10-852-335A-99 | Sequence 99, Appl |
| 277 | 30 | 65.2 | 209 | 4 | US-10-028-248A-10 | Sequence 10, Appl |
| 278 | 30 | 65.2 | 209 | 4 | US-10-107-782-10 | Sequence 10, Appl |
| 279 | 30 | 65.2 | 222 | 4 | US-10-424-599-221264 | Sequence 221264, |
| 280 | 30 | 65.2 | 227 | 4 | US-10-425-114-44664 | Sequence 44664, A |
| 281 | 30 | 65.2 | 243 | 4 | US-10-425-114-45320 | Sequence 45320, A |
| 282 | 30 | 65.2 | 260 | 3 | US-09-738-626-4051 | Sequence 4051, Ap |
| 283 | 30 | 65.2 | 265 | 4 | US-10-767-701-32810 | Sequence 32810, A |
| 284 | 30 | 65.2 | 277 | 4 | US-10-425-115-224676 | Sequence 224676, |
| 285 | 30 | 65.2 | 287 | 4 | US-10-425-115-241171 | Sequence 241171, |
| 286 | 30 | 65.2 | 292 | 4 | US-10-425-115-292123 | Sequence 292123, |
| 287 | 30 | 65.2 | 293 | 4 | US-10-425-114-71117 | Sequence 71117, A |
| 288 | 30 | 65.2 | 302 | 4 | US-10-425-114-67425 | Sequence 67425, A |
| 289 | 30 | 65.2 | 304 | 4 | US-10-424-599-197987 | Sequence 197987, |
| 290 | 30 | 65.2 | 318 | 3 | US-09-801-944B-221 | Sequence 221, App |
| 291 | 30 | 65.2 | 327 | 4 | US-10-369-493-2394 | Sequence 2394, Ap |
| 292 | 30 | 65.2 | 327 | 4 | US-10-282-122A-51662 | Sequence 51662, A |
| 293 | 30 | 65.2 | 328 | 4 | US-10-282-122A-50163 | Sequence 50163, A |
| 294 | 30 | 65.2 | 330 | 4 | US-10-437-963-114325 | Sequence 114325, |
| 295 | 30 | 65.2 | 342 | 4 | US-10-282-122A-69798 | Sequence 69798, A |
| 296 | 30 | 65.2 | 354 | 4 | US-10-282-122A-72996 | Sequence 72996, A |
| 297 | 30 | 65.2 | 354 | 4 | US-10-282-122A-76300 | Sequence 76300, A |
| 298 | 30 | 65.2 | 383 | 4 | US-10-166-225A-76 | Sequence 76, Appl |
| 299 | 30 | 65.2 | 383 | 4 | US-10-369-493-6906 | Sequence 6906, Ap |
| 300 | 30 | 65.2 | 383 | 5 | US-10-732-923-19554 | Sequence 19554, A |
| 301 | 30 | 65.2 | 383 | 5 | US-10-732-923-19588 | Sequence 19588, A |
| 302 | 30 | 65.2 | 410 | 4 | US-10-369-493-5566 | Sequence 5566, Ap |
| 303 | 30 | 65.2 | 422 | 4 | US-10-425-114-63502 | Sequence 63502, A |
| 304 | 30 | 65.2 | 423 | 4 | US-10-282-122A-62706 | Sequence 62706, A |
| 305 | 30 | 65.2 | 423 | 4 | US-10-425-115-366329 | Sequence 366329, |
| 306 | 30 | 65.2 | 425 | 4 | US-10-437-963-150167 | Sequence 150167, |
| 307 | 30 | 65.2 | 436 | 4 | US-10-282-122A-46793 | Sequence 46793, A |
| 308 | 30 | 65.2 | 439 | 4 | US-10-437-963-102562 | Sequence 102562, |
| 309 | 30 | 65.2 | 454 | 4 | US-10-156-761-12378 | Sequence 12378, A |
| 310 | 30 | 65.2 | 455 | 4 | US-10-338-777-51 | Sequence 51, Appl |
| 311 | 30 | 65.2 | 457 | 4 | US-10-437-963-166811 | Sequence 166811, |
| 312 | 30 | 65.2 | 461 | 5 | US-10-450-763-53715 | Sequence 53715, A |
| 313 | 30 | 65.2 | 475 | 4 | US-10-282-122A-48998 | Sequence 48998, A |
| 314 | 30 | 65.2 | 477 | 5 | US-10-732-923-13822 | Sequence 13822, A |
| 315 | 30 | 65.2 | 495 | 6 | US-11-097-143-6078 | Sequence 6078, Ap |
| 316 | 30 | 65.2 | 497 | 4 | US-10-156-761-7736 | Sequence 7736, Ap |
| 317 | 30 | 65.2 | 506 | 4 | US-10-425-114-55457 | Sequence 55457, A |
| 318 | 30 | 65.2 | 518 | 5 | US-10-983-845-1 | Sequence 1, Appli |
| 319 | 30 | 65.2 | 521 | 4 | US-10-425-115-196857 | Sequence 196857, |
| 320 | 30 | 65.2 | 524 | 5 | US-10-983-845-3 | Sequence 3, Appli |
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| 322 | 30 | 65.2 | 526 | 5 | US-10-983-845-4 | Sequence 4, Appli |
| 323 | 30 | 65.2 | 553 | 4 | US-10-437-963-155029 | Sequence 155029, |
| 324 | 30 | 65.2 | 553 | 5 | US-10-732-923-13821 | Sequence 13821, A |
| 325 | 30 | 65.2 | 553 | 5 | US-10-732-923-21481 | Sequence 21481, A |
| 326 | 30 | 65.2 | 561 | 4 | US-10-310-154-570 | Sequence 570, App |
| 327 | 30 | 65.2 | 561 | 5 | US-10-732-923-555 | Sequence 555, App |
| 328 | 30 | 65.2 | 564 | 4 | US-10-424-599-239763 | Sequence 239763, |
| 329 | 30 | 65.2 | 574 | 6 | US-11-097-143-18048 | Sequence 18048, A |
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| 331 | 30 | 65.2 | 595 | 4 | US-10-369-493-17076 | Sequence 17076, A |
| 332 | 30 | 65.2 | 605 | 4 | US-10-648-152-6 | Sequence 6, Appli |
| 333 | 30 | 65.2 | 614 | 4 | US-10-282-122A-76690 | Sequence 76690, A |
| 334 | 30 | 65.2 | 619 | 4 | US-10-648-152-41 | Sequence 41, Appl |
| 335 | 30 | 65.2 | 625 | 4 | US-10-648-152-33 | Sequence 33, Appl |
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| 337 | 30 | 65.2 | 634 | 5 | US-10-494-672-350 | Sequence 350, App |
| 338 | 30 | 65.2 | 639 | 4 | US-10-437-963-204498 | Sequence 204498, |
| 339 | 30 | 65.2 | 665 | 3 | US-09-906-419-15 | Sequence 15, Appl |
| 340 | 30 | 65.2 | 665 | 4 | US-10-119-136-15 | Sequence 15, Appl |
| 341 | 30 | 65.2 | 665 | 4 | US-10-410-031-15 | Sequence 15, Appl |
| 342 | 30 | 65.2 | 666 | 5 | US-10-739-930-6852 | Sequence 6852, Ap |
| 343 | 30 | 65.2 | 673 | 5 | US-10-739-930-6259 | Sequence 6259, Ap |
| 344 | 30 | 65.2 | 730 | 6 | US-11-097-143-3291 | Sequence 3291, Ap |
| 345 | 30 | 65.2 | 762 | 4 | US-10-425-115-250431 | Sequence 250431, |
| 346 | 30 | 65.2 | 762 | 5 | US-10-739-930-8438 | Sequence 8438, Ap |
| 347 | 30 | 65.2 | 769 | 4 | US-10-425-114-64334 | Sequence 64334, A |
| 348 | 30 | 65.2 | 778 | 4 | US-10-369-493-2251 | Sequence 2251, Ap |
| 349 | 30 | 65.2 | 779 | 4 | US-10-369-493-21952 | Sequence 21952, A |
| 350 | 30 | 65.2 | 807 | 4 | US-10-367-094-185 | Sequence 185, App |
| 351 | 30 | 65.2 | 808 | 6 | US-11-097-143-18639 | Sequence 18639, A |
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| 353 | 30 | 65.2 | 842 | 5 | US-10-450-763-41000 | Sequence 41000, A |
| 354 | 30 | 65.2 | 855 | 4 | US-10-282-122A-64478 | Sequence 64478, A |
| 355 | 30 | 65.2 | 875 | 4 | US-10-367-094-178 | Sequence 178, App |
| 356 | 30 | 65.2 | 877 | 4 | US-10-367-094-183 | Sequence 183, App |
| 357 | 30 | 65.2 | 878 | 4 | US-10-254-534-2 | Sequence 2, Appli |
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| 359 | 30 | 65.2 | 883 | 5 | US-10-482-029-301 | Sequence 301, App |
| 360 | 30 | 65.2 | 883 | 5 | US-10-753-267-102 | Sequence 102, App |
| 361 | 30 | 65.2 | 883 | 5 | US-10-936-626-141 | Sequence 141, App |
| 362 | 30 | 65.2 | 883 | 5 | US-10-938-061-141 | Sequence 141, App |
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| 368 | 30 | 65.2 | 893 | 5 | US-10-732-923-16951 | Sequence 16951, A |
| 369 | 30 | 65.2 | 894 | 5 | US-10-482-029-233 | Sequence 233, App |
| 370 | 30 | 65.2 | 902 | 4 | US-10-121-675-2 | Sequence 2, Appli |
| 371 | 30 | 65.2 | 906 | 4 | US-10-251-661-2 | Sequence 2, Appli |
| 372 | 30 | 65.2 | 906 | 4 | US-10-233-449-7 | Sequence 7, Appli |
| 373 | 30 | 65.2 | 916 | 4 | US-10-367-094-181 | Sequence 181, App |
| 374 | 30 | 65.2 | 921 | 3 | US-09-949-654-5 | Sequence 5, Appli |
| 375 | 30 | 65.2 | 928 | 4 | US-10-437-963-113722 | Sequence 113722, |
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| 378 | 30 | 65.2 | 937 | 5 | US-10-732-923-16973 | Sequence 16973, A |
| 379 | 30 | 65.2 | 950 | 5 | US-10-732-923-16943 | Sequence 16943, A |
| 380 | 30 | 65.2 | 958 | 4 | US-10-424-599-255927 | Sequence 255927, |
| 381 | 30 | 65.2 | 965 | 4 | US-10-408-765A-1456 | Sequence 1456, Ap |
| 382 | 30 | 65.2 | 974 | 6 | US-11-040-661-44 | Sequence 44, Appl |
| 383 | 30 | 65.2 | 978 | 3 | US-09-864-761-43207 | Sequence 43207, A |
| 384 | 30 | 65.2 | 983 | 4 | US-10-437-963-124195 | Sequence 124195, |
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| 386 | 30 | 65.2 | 1048 | 4 | US-10-437-963-195891 | Sequence 195891, |
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| 389 | 30 | 65.2 | 1101 | 5 | US-10-893-315-74 | Sequence 74, Appl |
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| 391 | 30 | 65.2 | 1102 | 4 | US-10-408-765A-1342 | Sequence 1342, Ap |
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| 395 | 30 | 65.2 | 1103 | 5 | US-10-893-315-119 | Sequence 119, App |
| 396 | 30 | 65.2 | 1110 | 4 | US-10-101-235A-4 | Sequence 4, Appli |
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| 398 | 30 | 65.2 | 1234 | 4 | US-10-437-963-124180 | Sequence 124180, |
| 399 | 30 | 65.2 | 1277 | 4 | US-10-128-714-8039 | Sequence 8039, Ap |
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| 403 | 30 | 65.2 | 1367 | 4 | US-10-671-419-138 | Sequence 138, App |
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| 406 | 30 | 65.2 | 1367 | 4 | US-10-673-098-138 | Sequence 138, App |
| 407 | 30 | 65.2 | 1367 | 4 | US-10-672-638-138 | Sequence 138, App |
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| 410 | 30 | 65.2 | 1367 | 4 | US-10-673-119-138 | Sequence 138, App |
| 411 | 30 | 65.2 | 1367 | 4 | US-10-671-207-138 | Sequence 138, App |
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| 413 | 30 | 65.2 | 1367 | 5 | US-10-671-412-138 | Sequence 138, App |
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| 415 | 30 | 65.2 | 1367 | 5 | US-10-671-106-138 | Sequence 138, App |
| 416 | 30 | 65.2 | 1394 | 5 | US-10-732-923-8266 | Sequence 8266, Ap |
| 417 | 30 | 65.2 | 1394 | 5 | US-10-732-923-8270 | Sequence 8270, Ap |
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| 423 | 30 | 65.2 | 1567 | 4 | US-10-437-963-124187 | Sequence 124187, |
| 424 | 30 | 65.2 | 1584 | 4 | US-10-225-567A-342 | Sequence 342, App |
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| 446 | 30 | 65.2 | 34350 | 5 | US-10-745-237-394 | Sequence 394, App |
| 447 | 30 | 65.2 | 36946 | 5 | US-10-840-512-155 | Sequence 155, App |
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| 450 | 29 | 63.0 | 17 | 4 | US-10-470-045-70 | Sequence 70, Appl |
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| 452 | 29 | 63.0 | 21 | 4 | US-10-253-471-514 | Sequence 514, App |
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| 456 | 29 | 63.0 | 28 | 5 | US-10-752-505-22 | Sequence 22, Appl |
| 457 | 29 | 63.0 | 28 | 5 | US-10-752-505-24 | Sequence 24, Appl |
| 458 | 29 | 63.0 | 29 | 5 | US-10-752-505-26 | Sequence 26, Appl |
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| 462 | 29 | 63.0 | 37 | 4 | US-10-227-577-1016 | Sequence 1016, Ap |
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| 579 | 29 | 63.0 | 301 | 5 | US-10-987-454-128 | Sequence 128, App |
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| 597 | 29 | 63.0 | 326 | 4 | US-10-090-002-2 | Sequence 2, Appli |
| 598 | 29 | 63.0 | 326 | 4 | US-10-664-421-55 | Sequence 55, Appl |
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| 859 | 28 | 60.9 | 144 | 4 | US-10-268-473-7 | Sequence 7, Appli |
| 860 | 28 | 60.9 | 144 | 4 | US-10-156-761-8534 | Sequence 8534, Ap |
| 861 | 28 | 60.9 | 144 | 6 | US-11-097-143-1779 | Sequence 1779, Ap |
| 862 | 28 | 60.9 | 148 | 5 | US-10-856-499-787 | Sequence 787, App |
| 863 | 28 | 60.9 | 153 | 4 | US-10-474-776-715 | Sequence 715, App |
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| 866 | 28 | 60.9 | 159 | 4 | US-10-425-114-72503 | Sequence 72503, A |
| 867 | 28 | 60.9 | 163 | 3 | US-09-925-301-1252 | Sequence 1252, Ap |
| 868 | 28 | 60.9 | 167 | 4 | US-10-767-701-39847 | Sequence 39847, A |
| 869 | 28 | 60.9 | 167 | 4 | US-10-425-115-233918 | Sequence 233918, |
| 870 | 28 | 60.9 | 169 | 3 | US-09-927-602-9 | Sequence 9, Appli |
| 871 | 28 | 60.9 | 171 | 4 | US-10-424-599-186142 | Sequence 186142, |
| 872 | 28 | 60.9 | 174 | 4 | US-10-437-963-128264 | Sequence 128264, |
| 873 | 28 | 60.9 | 177 | 4 | US-10-767-701-59164 | Sequence 59164, A |
| 874 | 28 | 60.9 | 179 | 4 | US-10-767-701-59848 | Sequence 59848, A |
| 875 | 28 | 60.9 | 183 | 4 | US-10-425-115-295514 | Sequence 295514, |
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| 879 | 28 | 60.9 | 192 | 4 | US-10-425-115-335545 | Sequence 335545, |
| 880 | 28 | 60.9 | 194 | 4 | US-10-437-963-148230 | Sequence 148230, |
| 881 | 28 | 60.9 | 194 | 4 | US-10-425-115-295516 | Sequence 295516, |
| 882 | 28 | 60.9 | 198 | 4 | US-10-767-701-36166 | Sequence 36166, A |
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| 890 | 28 | 60.9 | 207 | 4 | US-10-282-122A-45038 | Sequence 45038, A |
| 891 | 28 | 60.9 | 207 | 4 | US-10-437-963-173167 | Sequence 173167, |
| 892 | 28 | 60.9 | 208 | 4 | US-10-335-977-9106 | Sequence 9106, Ap |
| 893 | 28 | 60.9 | 209 | 4 | US-10-282-122A-68251 | Sequence 68251, A |
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| 895 | 28 | 60.9 | 211 | 3 | US-09-815-242-12534 | Sequence 12534, A |
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| 921 | 28 | 60.9 | 240 | 4 | US-10-767-701-40757 | Sequence 40757, A |
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| 931 | 28 | 60.9 | 267 | 4 | US-10-425-114-64188 | Sequence 64188, A |
| 932 | 28 | 60.9 | 270 | 5 | US-10-474-792-58 | Sequence 58, Appl |
| 933 | 28 | 60.9 | 272 | 4 | US-10-437-963-160941 | Sequence 160941, |
| 934 | 28 | 60.9 | 272 | 4 | US-10-767-701-33863 | Sequence 33863, A |
| 935 | 28 | 60.9 | 272 | 5 | US-10-739-930-6263 | Sequence 6263, Ap |
| 936 | 28 | 60.9 | 278 | 5 | US-10-856-499-747 | Sequence 747, App |
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| 939 | 28 | 60.9 | 283 | 4 | US-10-205-823-123 | Sequence 123, App |
| 940 | 28 | 60.9 | 283 | 4 | US-10-239-607-39 | Sequence 39, Appl |
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| 942 | 28 | 60.9 | 283 | 6 | US-11-051-454-123 | Sequence 123, App |
| 943 | 28 | 60.9 | 284 | 4 | US-10-424-599-248966 | Sequence 248966, |
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| 947 | 28 | 60.9 | 293 | 4 | US-10-282-122A-47153 | Sequence 47153, A |
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| 950 | 28 | 60.9 | 297 | 4 | US-10-767-701-42069 | Sequence 42069, A |
| 951 | 28 | 60.9 | 298 | 4 | US-10-369-493-8964 | Sequence 8964, Ap |
| 952 | 28 | 60.9 | 302 | 5 | US-10-739-930-6550 | Sequence 6550, Ap |
| 953 | 28 | 60.9 | 304 | 4 | US-10-399-240-4 | Sequence 4, Appli |
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| 955 | 28 | 60.9 | 306 | 4 | US-10-767-701-43963 | Sequence 43963, A |
| 956 | 28 | 60.9 | 307 | 4 | US-10-425-114-65848 | Sequence 65848, A |
| 957 | 28 | 60.9 | 309 | 4 | US-10-171-008-4 | Sequence 4, Appli |
| 958 | 28 | 60.9 | 312 | 4 | US-10-767-701-32147 | Sequence 32147, A |
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| 962 | 28 | 60.9 | 313 | 4 | US-10-114-270-136 | Sequence 136, App |
| 963 | 28 | 60.9 | 313 | 4 | US-10-114-270-138 | Sequence 138, App |
| 964 | 28 | 60.9 | 313 | 6 | US-11-023-805-2 | Sequence 2, Appli |
| 965 | 28 | 60.9 | 316 | 4 | US-10-156-761-14150 | Sequence 14150, A |
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| 967 | 28 | 60.9 | 317 | 4 | US-10-205-823-351 | Sequence 351, App |
| 968 | 28 | 60.9 | 317 | 4 | US-10-282-122A-51222 | Sequence 51222, A |
| 969 | 28 | 60.9 | 317 | 4 | US-10-408-765A-292 | Sequence 292, App |
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| 971 | 28 | 60.9 | 317 | 5 | US-10-344-326-9 | Sequence 9, Appli |
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| 973 | 28 | 60.9 | 318 | 4 | US-10-369-493-21614 | Sequence 21614, A |
| 974 | 28 | 60.9 | 319 | 4 | US-10-369-493-18434 | Sequence 18434, A |
| 975 | 28 | 60.9 | 320 | 4 | US-10-425-115-335550 | Sequence 335550, |
| 976 | 28 | 60.9 | 321 | 4 | US-10-282-122A-54593 | Sequence 54593, A |

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| 977 | 28 | 60.9 | 322 | 4 | US-10-156-761-8841 | Sequence 8841, Ap |
| 978 | 28 | 60.9 | 322 | 4 | US-10-424-599-207810 | Sequence 207810, |
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| 981 | 28 | 60.9 | 328 | 4 | US-10-408-765A-1073 | Sequence 1073, Ap |
| 982 | 28 | 60.9 | 328 | 4 | US-10-408-765A-2424 | Sequence 2424, Ap |
| 983 | 28 | 60.9 | 329 | 5 | US-10-756-149-4709 | Sequence 4709, Ap |
| 984 | 28 | 60.9 | 332 | 3 | US-09-767-041-22 | Sequence 22, Appl |
| 985 | 28 | 60.9 | 332 | 4 | US-10-424-599-245997 | Sequence 245997, |
| 986 | 28 | 60.9 | 332 | 4 | US-10-437-963-109427 | Sequence 109427, |
| 987 | 28 | 60.9 | 333 | 4 | US-10-282-122A-76701 | Sequence 76701, A |
| 988 | 28 | 60.9 | 333 | 4 | US-10-425-114-43046 | Sequence 43046, A |
| 989 | 28 | 60.9 | 334 | 4 | US-10-429-223-3 | Sequence 3, Appli |
| 990 | 28 | 60.9 | 334 | 4 | US-10-425-115-204235 | Sequence 204235, |
| 991 | 28 | 60.9 | 335 | 4 | US-10-369-493-18860 | Sequence 18860, A |
| 992 | 28 | 60.9 | 335 | 4 | US-10-425-115-333260 | Sequence 333260, |
| 993 | 28 | 60.9 | 337 | 4 | US-10-788-792-162 | Sequence 162, App |
| 994 | 28 | 60.9 | 340 | 4 | US-10-156-761-9187 | Sequence 9187, Ap |
| 995 | 28 | 60.9 | 341 | 4 | US-10-282-122A-71653 | Sequence 71653, A |
| 996 | 28 | 60.9 | 349 | 4 | US-10-425-114-55925 | Sequence 55925, A |
| 997 | 28 | 60.9 | 349 | 5 | US-10-739-930-5915 | Sequence 5915, Ap |
| 998 | 28 | 60.9 | 352 | 4 | US-10-077-584-8 | Sequence 8, Appli |
| 999 | 28 | 60.9 | 353 | 6 | US-11-097-143-20946 | Sequence 20946, A |
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ALIGNMENTS

RESULT 1
US-10-751-845-82
; Sequence 82, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 82
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-82

Query Match 100.0%; Score 46; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db          1 LLRREVYDF 9
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RESULT 2
US-10-476-570-28
; Sequence 28, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 28
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 42-56
US-10-476-570-28

Query Match 100.0%; Score 46; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.063;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db          3 LLRREVYDF 11
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RESULT 3
US-10-484-063-4
; Sequence 4, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-4

Query Match 100.0%; Score 46; DB 5; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.063;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db          2 LLRREVYDF 10
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RESULT 4
US-10-476-570-27
; Sequence 27, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle

; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 23
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 44-67
US-10-476-570-27

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Best Local Similarity 100.0%; Pred. No. 0.098;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 LLRREVYDF 9

RESULT 5
US-10-751-845-65
; Sequence 65, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 65
; LENGTH: 24
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-65

Query Match 100.0%; Score 46; DB 5; Length 24;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LLRREVYDF 9
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Db 1 LLRREVYDF 9

RESULT 6
US-10-751-845-126
; Sequence 126, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-126

Query Match 100.0%; Score 46; DB 5; Length 117;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LLRREVYDF 9
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Db 21 LLRREVYDF 29

RESULT 7
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
; APPLICANT: N.V. Antwerps Innovatiecentrum
; TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
; TITLE OF INVENTION: Polynucleotides by Electroporation
; FILE REFERENCE: 021505wo/JH/ml
; CURRENT APPLICATION NUMBER: US/10/177,390
; CURRENT FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-177-390-6

Query Match 100.0%; Score 46; DB 4; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.69;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LLRREVYDF 9
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Db 37 LLRREVYDF 45

RESULT 8
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19

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;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
;    LENGTH: 151
;    TYPE: PRT
;    ORGANISM: Human papillomavirus
US-10-484-063-20

  Query Match            100.0%;  Score 46;  DB 5;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 0.69;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db         37 LLRREVYDF 45


RESULT 9
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
;    LENGTH: 151
;    TYPE: PRT
;    ORGANISM: Human papillomavirus type 16
US-10-484-063-27

  Query Match            100.0%;  Score 46;  DB 5;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 0.69;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db         37 LLRREVYDF 45


RESULT 10
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
;    LENGTH: 158
;    TYPE: PRT
;    ORGANISM: Human Papillomavirus
US-10-858-384-2

  Query Match            100.0%;  Score 46;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.72;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db         44 LLRREVYDF 52


RESULT 11
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
;  APPLICANT: Cuthill, Scott;
;  APPLICANT:  Jackson, Amanda;
;  APPLICANT:  Lewin, David A.;
;  APPLICANT:  Ooi, Chean Eng
;  TITLE OF INVENTION: Complexes and Methods of Using Same
;  FILE REFERENCE: 21402-559
;  CURRENT APPLICATION NUMBER: US/10/367,057
;  CURRENT FILING DATE:  2003-02-14
;  PRIOR APPLICATION NUMBER: 60/256,911
;  PRIOR FILING DATE: 2002-02-14
;  NUMBER OF SEQ ID NOS: 198
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 16
;    LENGTH: 158
;    TYPE: PRT
;    ORGANISM: Homo sapiens
US-10-367-057-16

  Query Match            100.0%;  Score 46;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.72;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db         44 LLRREVYDF 52


RESULT 12
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
;    LENGTH: 158
;    TYPE: PRT
;    ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

  Query Match            100.0%;  Score 46;  DB 6;  Length 158;
```

Best Local Similarity 100.0%; Pred. No. 0.72;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 LLRREVYDF 9
              |||||||||
Db         44 LLRREVYDF 52
```

RESULT 13
US-10-472-724-2
; Sequence 2, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 171
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

Query Match 100.0%; Score 46; DB 4; Length 171;
Best Local Similarity 100.0%; Pred. No. 0.78;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 LLRREVYDF 9
              |||||||||
Db         49 LLRREVYDF 57
```

RESULT 14
US-10-751-845-157
; Sequence 157, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 157
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157

Query Match 100.0%; Score 46; DB 5; Length 236;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 LLRREVYDF 9
              |||||||||
Db         21 LLRREVYDF 29
```

RESULT 15
US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 158
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158

Query Match 100.0%; Score 46; DB 5; Length 237;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 LLRREVYDF 9
              |||||||||
Db         22 LLRREVYDF 30
```

RESULT 16
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOUL, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/11/072,288
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US/09/462,993
; PRIOR FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Derivated from
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
; OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

```
  Query Match             100.0%;  Score 46;  DB 6;  Length 243;
  Best Local Similarity   100.0%;  Pred. No. 1.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db         72 LLRREVYDF 80


RESULT 17
US-10-751-845-160
; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 160
;   LENGTH: 261
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160

  Query Match             100.0%;  Score 46;  DB 5;  Length 261;
  Best Local Similarity   100.0%;  Pred. No. 1.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db         46 LLRREVYDF 54


RESULT 18
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 46;  DB 3;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 1.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db         44 LLRREVYDF 52


RESULT 19
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-4

  Query Match             100.0%;  Score 46;  DB 4;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 1.3;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db        150 LLRREVYDF 158


RESULT 20
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-4

  Query Match             100.0%;  Score 46;  DB 5;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 1.3;
```

```
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db        150 LLRREVYDF 158


RESULT 21
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-10

  Query Match             100.0%;  Score 46;  DB 4;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 1.4;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db        169 LLRREVYDF 177


RESULT 22
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
;   OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-10

  Query Match             100.0%;  Score 46;  DB 5;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 1.4;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db        169 LLRREVYDF 177


RESULT 23
US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-6

  Query Match             100.0%;  Score 46;  DB 4;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 1.7;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db        150 LLRREVYDF 158


RESULT 24
US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
;   OTHER INFORMATION: virus type 16)
US-10-899-771-6
```

```
  Query Match             100.0%;  Score 46;  DB 5;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 1.7;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db        150 LLRREVYDF 158


RESULT 25
US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-14

  Query Match             100.0%;  Score 46;  DB 4;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db        169 LLRREVYDF 177


RESULT 26
US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
;   OTHER INFORMATION: pneumoniae and E6E7 fusion from Human papilloma
;   OTHER INFORMATION: virus type 16)
US-10-899-771-14

  Query Match             100.0%;  Score 46;  DB 5;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db        169 LLRREVYDF 177


RESULT 27
US-10-367-095-10
; Sequence 10, Application US/10367095
; Publication No. US20030228696A1
; GENERAL INFORMATION:
;  APPLICANT: Robin A. Robinson
;  TITLE OF INVENTION: No. US20030228696A1el Insect Cell Line
;  FILE REFERENCE: 44149-1US1
;  CURRENT APPLICATION NUMBER: US/10/367,095
;  CURRENT FILING DATE:  2003-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,119
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,161
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,118
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,133
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,157
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,156
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,123
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,113
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,154
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,135
;  PRIOR FILING DATE: 2002-02-14
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 13
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
;   LENGTH: 536
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: HPV-16 L2/E6 fusion protein
US-10-367-095-10

  Query Match             100.0%;  Score 46;  DB 4;  Length 536;
  Best Local Similarity   100.0%;  Pred. No. 2.6;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db        514 LLRREVYDF 522


RESULT 28
US-10-368-046-10
; Sequence 10, Application US/10368046
; Publication No. US20040063188A1
; GENERAL INFORMATION:
;  APPLICANT: Robin A. Robinson
;  APPLICANT:  Vittoria Cioce
;  TITLE OF INVENTION: Method for Isolation and Purification of
;  TITLE OF INVENTION:  Expressed Gene Products In Vitro
;  FILE REFERENCE: 44149-3US1
;  CURRENT APPLICATION NUMBER: US/10/368,046
;  CURRENT FILING DATE:  2003-02-15
;  PRIOR APPLICATION NUMBER: US 60/356,119
```

```
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,161
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,118
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,133
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,157
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,156
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,123
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,113
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,154
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,135
;  PRIOR FILING DATE: 2002-02-14
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 13
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
;   LENGTH: 536
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: HPV-16 L2/E6 fusion protein
US-10-368-046-10

  Query Match             100.0%;  Score 46;  DB 4;  Length 536;
  Best Local Similarity   100.0%;  Pred. No. 2.6;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db        514 LLRREVYDF 522


RESULT 29
US-10-367-367-10
; Sequence 10, Application US/10367367
; Publication No. US20040121465A1
; GENERAL INFORMATION:
;  APPLICANT: Robin A. Robinson
;  TITLE OF INVENTION: Optimization of Gene Sequences of
;  TITLE OF INVENTION:  Virus-Like Particles for Expression in Insect Cells
;  FILE REFERENCE: 44149-2US1
;  CURRENT APPLICATION NUMBER: US/10/367,367
;  CURRENT FILING DATE:  2003-02-15
;  PRIOR APPLICATION NUMBER: US 60/356,119
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,161
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,118
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,133
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,157
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,156
;  PRIOR FILING DATE: 2002-02-14
;  NUMBER OF SEQ ID NOS: 13
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
;   LENGTH: 536
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: HPV-16 L2/E6 fusion protein
US-10-367-367-10

  Query Match             100.0%;  Score 46;  DB 4;  Length 536;
  Best Local Similarity   100.0%;  Pred. No. 2.6;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db        514 LLRREVYDF 522


RESULT 30
US-10-918-337-10
; Sequence 10, Application US/10918337
; Publication No. US20050118191A1
; GENERAL INFORMATION:
;  APPLICANT: NOVAVAX, INC., et al.
;  TITLE OF INVENTION: Optimization of Gene Sequences of
;  TITLE OF INVENTION:  Chimeric Virus-Like Particles for Expression in Insect Cells
;  FILE REFERENCE: 19065/2132
;  CURRENT APPLICATION NUMBER: US/10/918,337
;  CURRENT FILING DATE:  2004-08-13
;  PRIOR APPLICATION NUMBER: PCT/US03/04473
;  PRIOR FILING DATE: 2003-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,119
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,161
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,118
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,133
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,157
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,156
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,123
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,113
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,154
;  PRIOR FILING DATE: 2002-02-14
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 13
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
;   LENGTH: 536
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: HPV-16 L2/E6 fusion protein
US-10-918-337-10

  Query Match             100.0%;  Score 46;  DB 5;  Length 536;
  Best Local Similarity   100.0%;  Pred. No. 2.6;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db        514 LLRREVYDF 522


RESULT 31
US-10-476-570-26
; Sequence 26, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
```

; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 26
; LENGTH: 22
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 45-67
US-10-476-570-26

Query Match 91.3%; Score 42; DB 4; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.56;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LRREVYDF 9
||||||||
Db 1 LRREVYDF 8

RESULT 32
US-10-751-845-72
; Sequence 72, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 72
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-72

Query Match 82.6%; Score 38; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 RREVYDF 9
|||||||
Db 1 RREVYDF 7

RESULT 33
US-10-476-570-54
; Sequence 54, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 54
; LENGTH: 21
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 46-67
US-10-476-570-54

Query Match 82.6%; Score 38; DB 4; Length 21;
Best Local Similarity 100.0%; Pred. No. 3.1;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 RREVYDF 9
|||||||
Db 1 RREVYDF 7

RESULT 34
US-10-858-384-6
; Sequence 6, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 6
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
; OTHER INFORMATION: for E6 of HPV
US-10-858-384-6

Query Match 82.6%; Score 38; DB 5; Length 22;
Best Local Similarity 100.0%; Pred. No. 3.3;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 RREVYDF 9
|||||||
Db 1 RREVYDF 7

RESULT 35
US-10-508-622-28
; Sequence 28, Application US/10508622
; Publication No. US20050089867A1
; GENERAL INFORMATION:
; APPLICANT: KENTON SRL
; TITLE OF INVENTION: ANTIGEN FRAGMENTS FOR THE DIAGNOSIS OF TOXOPLASMA
; TITLE OF INVENTION: GONDII
; FILE REFERENCE: PCT-6989 MS

; CURRENT APPLICATION NUMBER: US/10/508,622
; CURRENT FILING DATE: 2004-09-21
; PRIOR APPLICATION NUMBER: RM 2002 A 000159
; PRIOR FILING DATE: 2002-03-21
; PRIOR APPLICATION NUMBER: RM 2002 A 000568
; PRIOR FILING DATE: 2002-11-13
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 28
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Toxoplasma gondii
US-10-508-622-28

Query Match 80.4%; Score 37; DB 5; Length 99;
Best Local Similarity 87.5%; Pred. No. 24;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LLRREVYD 8
||||||:||
Db 86 LLRRELYD 93

RESULT 36
US-10-108-260A-4145
; Sequence 4145, Application US/10108260A
; Publication No. US20040005560A1
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: No. US20040005560A1el full length cDNA
; FILE REFERENCE: H1-A0106
; CURRENT APPLICATION NUMBER: US/10/108,260A
; CURRENT FILING DATE: 2002-03-27
; NUMBER OF SEQ ID NOS: 5458
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4145
; LENGTH: 620
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-108-260A-4145

Query Match 78.3%; Score 36; DB 4; Length 620;
Best Local Similarity 87.5%; Pred. No. 2.5e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LRREVYDF 9
||||||:|
Db 387 LRREVYSF 394

RESULT 37
US-10-424-599-242846
; Sequence 242846, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 242846
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_61319C.1.pep
US-10-424-599-242846

Query Match 76.1%; Score 35; DB 4; Length 77;
Best Local Similarity 66.7%; Pred. No. 46;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LLRREVYDF 9
||||:||:
Db 58 LLRRKAYDY 66

RESULT 38
US-11-021-949-19
; Sequence 19, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 19
; LENGTH: 148
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-19

Query Match 76.1%; Score 35; DB 6; Length 148;
Best Local Similarity 77.8%; Pred. No. 90;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LLRREVYDF 9
| | |||||
Db 38 LYRSEVYDF 46

RESULT 39
US-10-767-701-31810
; Sequence 31810, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 31810
; LENGTH: 234
; TYPE: PRT
; ORGANISM: Sorghum bicolor
; FEATURE:
; OTHER INFORMATION: Clone ID: SORBI-28MAY03-C106209_1.pep
US-10-767-701-31810

Query Match 76.1%; Score 35; DB 4; Length 234;
Best Local Similarity 85.7%; Pred. No. 1.4e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LRREVYD 8
||||:||
Db 78 LRREIYD 84

```
RESULT 40
US-10-270-875-48
; Sequence 48, Application US/10270875
; Publication No. US20030082741A1
; GENERAL INFORMATION:
;  APPLICANT: Sigridur Hjorleifsdotter
;  APPLICANT:  Gudmundur O. Hreggvidsson
;  APPLICANT:  Olafur H. Fridjonsson
;  APPLICANT:  Arnthor Aevarsson
;  APPLICANT:  Jakob K. Kristjansson
;  TITLE OF INVENTION: Bacteriophage RM378 of a Thermophilic
;  TITLE OF INVENTION:  Host Organism
;  FILE REFERENCE: 2739.1001-001
;  CURRENT APPLICATION NUMBER: US/10/270,875
;  CURRENT FILING DATE:  2002-10-11
;  PRIOR APPLICATION NUMBER: US/09/585,858
;  PRIOR FILING DATE: 2000-12-18
;  PRIOR APPLICATION NUMBER: 60/137,120
;  PRIOR FILING DATE: 1999-06-02
;  NUMBER OF SEQ ID NOS: 73
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 48
;   LENGTH: 287
;   TYPE: PRT
;   ORGANISM: Chlamydomonas trachomatis
US-10-270-875-48

  Query Match             76.1%;  Score 35;  DB 4;  Length 287;
  Best Local Similarity   87.5%;  Pred. No. 1.8e+02;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LLRREVYD 8
              ||||| ||
Db        236 LLRREYYD 243


RESULT 41
US-10-270-878-48
; Sequence 48, Application US/10270878
; Publication No. US20030082790A1
; GENERAL INFORMATION:
;  APPLICANT: Sigridur Hjorleifsdotter
;  APPLICANT:  Gudmundur O. Hreggvidsson
;  APPLICANT:  Olafur H. Fridjonsson
;  APPLICANT:  Arnthor Aevarsson
;  APPLICANT:  Jakob K. Kristjansson
;  TITLE OF INVENTION: Bacteriophage RM378 of a Thermophilic
;  TITLE OF INVENTION:  Host Organism
;  FILE REFERENCE: 2739.1001-001
;  CURRENT APPLICATION NUMBER: US/10/270,878
;  CURRENT FILING DATE:  2002-10-11
;  PRIOR APPLICATION NUMBER: US/09/585,858
;  PRIOR FILING DATE: 2000-12-18
;  NUMBER OF SEQ ID NOS: 73
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 48
;   LENGTH: 287
;   TYPE: PRT
;   ORGANISM: Chlamydomonas trachomatis
US-10-270-878-48

  Query Match             76.1%;  Score 35;  DB 4;  Length 287;
  Best Local Similarity   87.5%;  Pred. No. 1.8e+02;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LLRREVYD 8
              ||||| ||
Db        236 LLRREYYD 243


RESULT 42
US-10-270-786-48
; Sequence 48, Application US/10270786
; Publication No. US20030087392A1
; GENERAL INFORMATION:
;  APPLICANT: Sigridur Hjorleifsdotter
;  APPLICANT:  Gudmundur O. Hreggvidsson
;  APPLICANT:  Olafur H. Fridjonsson
;  APPLICANT:  Arnthor Aevarsson
;  APPLICANT:  Jakob K. Kristjansson
;  TITLE OF INVENTION: Bacteriophage RM378 of a Thermophilic
;  TITLE OF INVENTION:  Host Organism
;  FILE REFERENCE: 2739.1001-001
;  CURRENT APPLICATION NUMBER: US/10/270,786
;  CURRENT FILING DATE:  2002-10-11
;  PRIOR APPLICATION NUMBER: US/09/585,858
;  PRIOR FILING DATE: 2000-12-18
;  PRIOR APPLICATION NUMBER: 60/137,120
;  PRIOR FILING DATE: 1999-06-02
;  NUMBER OF SEQ ID NOS: 73
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 48
;   LENGTH: 287
;   TYPE: PRT
;   ORGANISM: Chlamydomonas trachomatis
US-10-270-786-48

  Query Match             76.1%;  Score 35;  DB 4;  Length 287;
  Best Local Similarity   87.5%;  Pred. No. 1.8e+02;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LLRREVYD 8
              ||||| ||
Db        236 LLRREYYD 243


RESULT 43
US-10-270-710-48
; Sequence 48, Application US/10270710
; Publication No. US20030092128A1
; GENERAL INFORMATION:
;  APPLICANT: Sigridur Hjorleifsdotter
;  APPLICANT:  Gudmundur O. Hreggvidsson
;  APPLICANT:  Olafur H. Fridjonsson
;  APPLICANT:  Arnthor Aevarsson
;  APPLICANT:  Jakob K. Kristjansson
;  TITLE OF INVENTION: Bacteriophage RM378 of a Thermophilic
;  TITLE OF INVENTION:  Host Organism
;  FILE REFERENCE: 2739.1001-001
;  CURRENT APPLICATION NUMBER: US/10/270,710
;  CURRENT FILING DATE:  2002-10-11
;  PRIOR APPLICATION NUMBER: US/09/585,858
;  PRIOR FILING DATE: 2000-12-18
;  PRIOR APPLICATION NUMBER: 60/137,120
;  PRIOR FILING DATE: 1999-06-02
;  NUMBER OF SEQ ID NOS: 73
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 48
;   LENGTH: 287
;   TYPE: PRT
;   ORGANISM: Chlamydomonas trachomatis
US-10-270-710-48

  Query Match             76.1%;  Score 35;  DB 4;  Length 287;
  Best Local Similarity   87.5%;  Pred. No. 1.8e+02;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LLRREVYD 8
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Db        236 LLRREYYD 243


RESULT 44
US-10-270-859-48
; Sequence 48, Application US/10270859
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; Publication No. US20030092134A1
; GENERAL INFORMATION:
; APPLICANT: Sigridur Hjorleifsdotter
; APPLICANT: Gudmundur O. Hreggvidsson
; APPLICANT: Olafur H. Fridjonsson
; APPLICANT: Arnthor Aevarsson
; APPLICANT: Jakob K. Kristjansson
; TITLE OF INVENTION: Bacteriophage RM378 of a Thermophilic
; TITLE OF INVENTION: Host Organism
; FILE REFERENCE: 2739.1001-001
; CURRENT APPLICATION NUMBER: US/10/270,859
; CURRENT FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: US/09/585,858
; PRIOR FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: 60/137,120
; PRIOR FILING DATE: 1999-06-02
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 48
; LENGTH: 287
; TYPE: PRT
; ORGANISM: Chlamydomonas trachomatis
US-10-270-859-48

Query Match 76.1%; Score 35; DB 4; Length 287;
Best Local Similarity 87.5%; Pred. No. 1.8e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LLRREVYD 8
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Db 236 LLRREYYD 243

RESULT 45
US-10-270-846-48
; Sequence 48, Application US/10270846
; Publication No. US20030129727A1
; GENERAL INFORMATION:
; APPLICANT: Sigridur Hjorleifsdotter
; APPLICANT: Gudmundur O. Hreggvidsson
; APPLICANT: Olafur H. Fridjonsson
; APPLICANT: Arnthor Aevarsson
; APPLICANT: Jakob K. Kristjansson
; TITLE OF INVENTION: Bacteriophage RM378 of a Thermophilic
; TITLE OF INVENTION: Host Organism
; FILE REFERENCE: 2739.1001-001
; CURRENT APPLICATION NUMBER: US/10/270,846
; CURRENT FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: US/09/585,858
; PRIOR FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: 60/137,120
; PRIOR FILING DATE: 1999-06-02
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 48
; LENGTH: 287
; TYPE: PRT
; ORGANISM: Chlamydomonas trachomatis
US-10-270-846-48

Query Match 76.1%; Score 35; DB 4; Length 287;
Best Local Similarity 87.5%; Pred. No. 1.8e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LLRREVYD 8
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Db 236 LLRREYYD 243

RESULT 46
US-10-289-762-654
; Sequence 654, Application US/10289762
; Publication No. US20040006218A1
; GENERAL INFORMATION:
; APPLICANT: Griffais, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prever
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/10/289,762
; CURRENT FILING DATE: 2003-03-27
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 654
; LENGTH: 377
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
; FEATURE:
; NAME/KEY: SITE
; LOCATION: 1...377
; OTHER INFORMATION: Xaa=unknown or other
US-10-289-762-654

Query Match 76.1%; Score 35; DB 4; Length 377;
Best Local Similarity 87.5%; Pred. No. 2.4e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LLRREVYD 8
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Db 326 LLRREYYD 333

RESULT 47
US-10-282-122A-54740
; Sequence 54740, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 54740

; LENGTH: 468
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-10-282-122A-54740

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Best Local Similarity 87.5%; Pred. No. 3e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 417 LLRREYYD 424

RESULT 48
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; Sequence 55283, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 55283
; LENGTH: 472
; TYPE: PRT
; ORGANISM: Chlamydia trachomatis
US-10-282-122A-55283

Query Match 76.1%; Score 35; DB 4; Length 472;
Best Local Similarity 87.5%; Pred. No. 3e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LLRREVYD 8
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Db 421 LLRREYYD 428

RESULT 49
US-10-239-313A-525
; Sequence 525, Application US/10239313A
; Publication No. US20030175285A1
; GENERAL INFORMATION:
; APPLICANT: KLINGUER - HAMOUR, Christine
; APPLICANT: CORVAIA, Nathalie
; APPLICANT: BECK, Alain
; APPLICANT: GOETSCH, Liliane
; TITLE OF INVENTION: MOLECULE OF PHARMACEUTICAL INTEREST COMPRISING AT ITS
; TITLE OF INVENTION: N-TERMINAL A GLUTAMIC ACID OR A GLUTAMINE IN THE FORM
; TITLE OF INVENTION: OF A PHYSIOLOGICALLY ACCEPTABLE STRONG ACID
; FILE REFERENCE: 343 727 - US
; CURRENT APPLICATION NUMBER: US/10/239,313A
; CURRENT FILING DATE: 2002-09-19
; PRIOR APPLICATION NUMBER: FR 00/03711
; PRIOR FILING DATE: 2000-03-23
; PRIOR APPLICATION NUMBER: PCT 01/70772
; PRIOR FILING DATE: 2001-03-22
; NUMBER OF SEQ ID NOS: 697
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 525
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-239-313A-525

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Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 3 LLRREVY 9

RESULT 50
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; Sequence 25, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 25
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 36-50
US-10-476-570-25

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Best Local Similarity 100.0%; Pred. No. 13;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 9 LLRREVY 15

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OM protein - protein search, using sw model

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Sequence: 1 LLRREVYDF 9

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 7 | 46 | 100.0 | 248 | 9 | US-10-530-253-9 | Sequence 9, Appli |
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| 11 | 34 | 73.9 | 149 | 9 | US-10-530-253-17 | Sequence 17, Appl |
| 12 | 34 | 73.9 | 149 | 9 | US-10-530-253-18 | Sequence 18, Appl |
| 13 | 34 | 73.9 | 149 | 9 | US-10-530-253-24 | Sequence 24, Appl |
| 14 | 34 | 73.9 | 775 | 11 | US-11-087-099-332 | Sequence 332, App |
| 15 | 33 | 71.7 | 148 | 9 | US-10-530-253-22 | Sequence 22, Appl |
| 16 | 33 | 71.7 | 264 | 9 | US-10-793-626-388 | Sequence 388, App |
| 17 | 33 | 71.7 | 449 | 11 | US-11-120-308-176 | Sequence 176, App |
| 18 | 33 | 71.7 | 554 | 11 | US-11-098-686-11102 | Sequence 11102, A |
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| 22 | 32 | 69.6 | 474 | 11 | US-11-040-595-8 | Sequence 8, Appli |
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| 24 | 32 | 69.6 | 487 | 11 | US-11-040-595-6 | Sequence 6, Appli |
| 25 | 32 | 69.6 | 493 | 11 | US-11-096-568A-7667 | Sequence 7667, Ap |
| 26 | 32 | 69.6 | 520 | 11 | US-11-096-568A-7666 | Sequence 7666, Ap |
| 27 | 32 | 69.6 | 680 | 9 | US-10-915-002-190 | Sequence 190, App |
| 28 | 32 | 69.6 | 1841 | 11 | US-11-057-058-63 | Sequence 63, Appl |
| 29 | 31 | 67.4 | 117 | 11 | US-11-096-568A-1014 | Sequence 1014, Ap |
| 30 | 31 | 67.4 | 150 | 11 | US-11-096-568A-1013 | Sequence 1013, Ap |
| 31 | 31 | 67.4 | 204 | 11 | US-11-096-568A-1012 | Sequence 1012, Ap |
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| 33 | 31 | 67.4 | 326 | 9 | US-10-915-002-213 | Sequence 213, App |
| 34 | 31 | 67.4 | 415 | 9 | US-10-467-657-10 | Sequence 10, Appl |
| 35 | 31 | 67.4 | 415 | 9 | US-10-467-657-5468 | Sequence 5468, Ap |
| 36 | 31 | 67.4 | 544 | 11 | US-11-079-463-9804 | Sequence 9804, Ap |
| 37 | 30 | 65.2 | 89 | 7 | US-09-978-360A-454 | Sequence 454, App |
| 38 | 30 | 65.2 | 147 | 11 | US-11-188-298-19159 | Sequence 19159, A |
| 39 | 30 | 65.2 | 155 | 9 | US-10-530-253-23 | Sequence 23, Appl |
| 40 | 30 | 65.2 | 158 | 9 | US-10-530-253-26 | Sequence 26, Appl |
| 41 | 30 | 65.2 | 195 | 9 | US-10-902-137-9 | Sequence 9, Appli |
| 42 | 30 | 65.2 | 204 | 9 | US-10-902-137-2 | Sequence 2, Appli |
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| 44 | 30 | 65.2 | 383 | 9 | US-10-513-759-4 | Sequence 4, Appli |
| 45 | 30 | 65.2 | 383 | 11 | US-11-129-143-76 | Sequence 76, Appl |
| 46 | 30 | 65.2 | 384 | 11 | US-11-096-568A-13063 | Sequence 13063, A |
| 47 | 30 | 65.2 | 386 | 11 | US-11-096-568A-22817 | Sequence 22817, A |
| 48 | 30 | 65.2 | 392 | 11 | US-11-096-568A-13062 | Sequence 13062, A |
| 49 | 30 | 65.2 | 394 | 11 | US-11-096-568A-22816 | Sequence 22816, A |
| 50 | 30 | 65.2 | 397 | 11 | US-11-096-568A-19643 | Sequence 19643, A |
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| 61 | 30 | 65.2 | 762 | 11 | US-11-188-298-16968 | Sequence 16968, A |
| 62 | 30 | 65.2 | 778 | 11 | US-11-188-298-20804 | Sequence 20804, A |
| 63 | 30 | 65.2 | 1076 | 9 | US-10-902-137-6 | Sequence 6, Appli |
| 64 | 30 | 65.2 | 1110 | 9 | US-10-902-137-4 | Sequence 4, Appli |
| 65 | 30 | 65.2 | 4868 | 11 | US-11-044-111-24 | Sequence 24, Appl |
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| 68 | 29 | 63.0 | 148 | 11 | US-11-045-004-842 | Sequence 842, App |
| 69 | 29 | 63.0 | 156 | 11 | US-11-096-568A-11162 | Sequence 11162, A |
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| 72 | 29 | 63.0 | 187 | 11 | US-11-188-298-12953 | Sequence 12953, A |
| 73 | 29 | 63.0 | 190 | 11 | US-11-096-568A-11161 | Sequence 11161, A |
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| 75 | 29 | 63.0 | 197 | 11 | US-11-096-568A-25582 | Sequence 25582, A |
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| 78 | 29 | 63.0 | 241 | 11 | US-11-096-568A-18300 | Sequence 18300, A |
| 79 | 29 | 63.0 | 241 | 11 | US-11-096-568A-25581 | Sequence 25581, A |
| 80 | 29 | 63.0 | 242 | 11 | US-11-096-568A-18299 | Sequence 18299, A |
| 81 | 29 | 63.0 | 248 | 11 | US-11-096-568A-25580 | Sequence 25580, A |
| 82 | 29 | 63.0 | 251 | 11 | US-11-096-568A-18298 | Sequence 18298, A |
| 83 | 29 | 63.0 | 254 | 11 | US-11-096-568A-12279 | Sequence 12279, A |
| 84 | 29 | 63.0 | 257 | 11 | US-11-087-099-328 | Sequence 328, App |
| 85 | 29 | 63.0 | 277 | 11 | US-11-096-568A-18044 | Sequence 18044, A |
| 86 | 29 | 63.0 | 301 | 11 | US-11-096-568A-9599 | Sequence 9599, Ap |
| 87 | 29 | 63.0 | 318 | 11 | US-11-060-029-21 | Sequence 21, Appl |
| 88 | 29 | 63.0 | 332 | 9 | US-10-497-767-3 | Sequence 3, Appli |
| 89 | 29 | 63.0 | 334 | 11 | US-11-096-568A-18043 | Sequence 18043, A |
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| 91 | 29 | 63.0 | 346 | 11 | US-11-060-029-19 | Sequence 19, Appl |
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| 95 | 29 | 63.0 | 362 | 9 | US-10-838-616-24 | Sequence 24, Appl |
| 96 | 29 | 63.0 | 377 | 11 | US-11-188-298-17243 | Sequence 17243, A |
| 97 | 29 | 63.0 | 379 | 11 | US-11-060-029-17 | Sequence 17, Appl |
| 98 | 29 | 63.0 | 384 | 11 | US-11-079-463-7275 | Sequence 7275, Ap |
| 99 | 29 | 63.0 | 385 | 11 | US-11-060-029-2 | Sequence 2, Appli |
| 100 | 29 | 63.0 | 386 | 11 | US-11-060-029-13 | Sequence 13, Appl |
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| 102 | 29 | 63.0 | 413 | 11 | US-11-060-029-4 | Sequence 4, Appli |
| 103 | 29 | 63.0 | 426 | 11 | US-11-096-568A-28439 | Sequence 28439, A |
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| 105 | 29 | 63.0 | 433 | 11 | US-11-047-383-2 | Sequence 2, Appli |
| 106 | 29 | 63.0 | 433 | 11 | US-11-047-383-4 | Sequence 4, Appli |
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| 108 | 29 | 63.0 | 456 | 11 | US-11-112-882-17 | Sequence 17, Appl |
| 109 | 29 | 63.0 | 456 | 11 | US-11-146-428-64 | Sequence 64, Appl |
| 110 | 29 | 63.0 | 470 | 11 | US-11-229-371-91 | Sequence 91, Appl |
| 111 | 29 | 63.0 | 470 | 11 | US-11-228-923-91 | Sequence 91, Appl |
| 112 | 29 | 63.0 | 470 | 11 | US-11-228-875-91 | Sequence 91, Appl |
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| 114 | 29 | 63.0 | 504 | 11 | US-11-087-099-1053 | Sequence 1053, Ap |
| 115 | 29 | 63.0 | 509 | 9 | US-10-506-454-1427 | Sequence 1427, Ap |
| 116 | 29 | 63.0 | 528 | 11 | US-11-188-298-15209 | Sequence 15209, A |
| 117 | 29 | 63.0 | 537 | 11 | US-11-188-298-21893 | Sequence 21893, A |
| 118 | 29 | 63.0 | 563 | 11 | US-11-040-218-23 | Sequence 23, Appl |
| 119 | 29 | 63.0 | 638 | 11 | US-11-087-099-1176 | Sequence 1176, Ap |
| 120 | 29 | 63.0 | 730 | 11 | US-11-096-568A-28437 | Sequence 28437, A |
| 121 | 29 | 63.0 | 856 | 11 | US-11-188-298-9689 | Sequence 9689, Ap |
| 122 | 29 | 63.0 | 923 | 11 | US-11-087-099-8023 | Sequence 8023, Ap |
| 123 | 29 | 63.0 | 923 | 11 | US-11-188-298-22194 | Sequence 22194, A |
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| 125 | 28 | 60.9 | 62 | 11 | US-11-045-004-2351 | Sequence 2351, Ap |
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| 127 | 28 | 60.9 | 101 | 9 | US-10-506-454-1308 | Sequence 1308, Ap |
| 128 | 28 | 60.9 | 132 | 11 | US-11-079-463-10137 | Sequence 10137, A |
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| 130 | 28 | 60.9 | 168 | 11 | US-11-079-463-6528 | Sequence 6528, Ap |
| 131 | 28 | 60.9 | 187 | 11 | US-11-096-568A-24077 | Sequence 24077, A |
| 132 | 28 | 60.9 | 200 | 11 | US-11-096-568A-24076 | Sequence 24076, A |
| 133 | 28 | 60.9 | 220 | 11 | US-11-096-568A-29600 | Sequence 29600, A |
| 134 | 28 | 60.9 | 224 | 11 | US-11-087-099-1843 | Sequence 1843, Ap |
| 135 | 28 | 60.9 | 228 | 9 | US-10-793-626-970 | Sequence 970, App |
| 136 | 28 | 60.9 | 231 | 11 | US-11-096-568A-29599 | Sequence 29599, A |
| 137 | 28 | 60.9 | 256 | 11 | US-11-096-568A-32861 | Sequence 32861, A |
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| 146 | 28 | 60.9 | 338 | 11 | US-11-096-568A-29598 | Sequence 29598, A |
| 147 | 28 | 60.9 | 345 | 11 | US-11-096-568A-24543 | Sequence 24543, A |
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| 158 | 28 | 60.9 | 412 | 11 | US-11-114-922-8 | Sequence 8, Appli |
| 159 | 28 | 60.9 | 414 | 11 | US-11-096-568A-24541 | Sequence 24541, A |
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| 164 | 28 | 60.9 | 455 | 11 | US-11-188-298-22123 | Sequence 22123, A |
| 165 | 28 | 60.9 | 455 | 11 | US-11-147-763-26 | Sequence 26, Appl |
| 166 | 28 | 60.9 | 459 | 9 | US-10-753-195-10 | Sequence 10, Appl |
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| 168 | 28 | 60.9 | 463 | 11 | US-11-188-298-19062 | Sequence 19062, A |
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| 186 | 28 | 60.9 | 607 | 11 | US-11-080-991-88 | Sequence 88, Appl |
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| 188 | 28 | 60.9 | 642 | 11 | US-11-098-686-10457 | Sequence 10457, A |
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| 190 | 28 | 60.9 | 736 | 11 | US-11-188-298-18617 | Sequence 18617, A |
| 191 | 28 | 60.9 | 737 | 9 | US-10-453-372-456 | Sequence 456, App |
| 192 | 28 | 60.9 | 737 | 11 | US-11-188-298-21101 | Sequence 21101, A |
| 193 | 28 | 60.9 | 768 | 11 | US-11-144-630-12 | Sequence 12, Appl |
| 194 | 28 | 60.9 | 805 | 9 | US-10-467-657-1930 | Sequence 1930, Ap |
| 195 | 28 | 60.9 | 842 | 11 | US-11-038-284-38 | Sequence 38, Appl |
| 196 | 28 | 60.9 | 847 | 11 | US-11-038-284-42 | Sequence 42, Appl |
| 197 | 28 | 60.9 | 861 | 11 | US-11-038-284-36 | Sequence 36, Appl |
| 198 | 28 | 60.9 | 873 | 11 | US-11-038-284-35 | Sequence 35, Appl |
| 199 | 28 | 60.9 | 889 | 11 | US-11-038-284-15 | Sequence 15, Appl |
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| 201 | 28 | 60.9 | 1043 | 11 | US-11-079-463-9606 | Sequence 9606, Ap |
| 202 | 28 | 60.9 | 1095 | 11 | US-11-079-463-10246 | Sequence 10246, A |
| 203 | 28 | 60.9 | 1115 | 9 | US-10-204-639-47 | Sequence 47, Appl |
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| 205 | 28 | 60.9 | 1663 | 8 | US-10-505-928-227 | Sequence 227, App |
| 206 | 28 | 60.9 | 2238 | 9 | US-10-330-773-42 | Sequence 42, Appl |
| 207 | 28 | 60.9 | 2910 | 9 | US-10-330-773-39 | Sequence 39, Appl |
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| 216 | 27 | 58.7 | 160 | 9 | US-10-530-253-25 | Sequence 25, Appl |
| 217 | 27 | 58.7 | 178 | 11 | US-11-074-176-26 | Sequence 26, Appl |
| 218 | 27 | 58.7 | 179 | 11 | US-11-226-657-135 | Sequence 135, App |
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| 228 | 27 | 58.7 | 258 | 11 | US-11-096-568A-10038 | Sequence 10038, A |
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| 239 | 27 | 58.7 | 285 | 11 | US-11-045-004-1161 | Sequence 1161, Ap |
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| 259 | 27 | 58.7 | 384 | 11 | US-11-129-143-77 | Sequence 77, Appl |
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| 293 | 27 | 58.7 | 497 | 9 | US-10-467-657-76 | Sequence 76, Appl |
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| 360 | 27 | 58.7 | 2009 | 10 | US-11-263-326-122 | Sequence 122, App |
| 361 | 27 | 58.7 | 2009 | 10 | US-11-263-326-123 | Sequence 123, App |
| 362 | 27 | 58.7 | 2009 | 10 | US-11-263-326-126 | Sequence 126, App |
| 363 | 27 | 58.7 | 2009 | 10 | US-11-263-326-127 | Sequence 127, App |
| 364 | 27 | 58.7 | 2009 | 10 | US-11-263-326-167 | Sequence 167, App |
| 365 | 27 | 58.7 | 2009 | 10 | US-11-263-326-168 | Sequence 168, App |
| 366 | 27 | 58.7 | 2009 | 10 | US-11-263-326-169 | Sequence 169, App |
| 367 | 27 | 58.7 | 2009 | 10 | US-11-263-326-170 | Sequence 170, App |
| 368 | 27 | 58.7 | 2009 | 10 | US-11-263-326-172 | Sequence 172, App |
| 369 | 27 | 58.7 | 2890 | 11 | US-11-115-639-31 | Sequence 31, Appl |
| 370 | 27 | 58.7 | 2890 | 11 | US-11-115-639-32 | Sequence 32, Appl |
| 371 | 27 | 58.7 | 2890 | 11 | US-11-115-639-33 | Sequence 33, Appl |
| 372 | 26.5 | 57.6 | 608 | 9 | US-10-763-712A-16 | Sequence 16, Appl |
| 373 | 26.5 | 57.6 | 608 | 9 | US-10-763-712A-90 | Sequence 90, Appl |
| 374 | 26 | 56.5 | 10 | 9 | US-10-530-061-564 | Sequence 564, App |
| 375 | 26 | 56.5 | 15 | 9 | US-10-530-061-1686 | Sequence 1686, Ap |
| 376 | 26 | 56.5 | 51 | 11 | US-11-004-399-3039 | Sequence 3039, Ap |
| 377 | 26 | 56.5 | 58 | 11 | US-11-188-298-2078 | Sequence 2078, Ap |
| 378 | 26 | 56.5 | 111 | 9 | US-10-793-626-116 | Sequence 116, App |
| 379 | 26 | 56.5 | 113 | 11 | US-11-079-463-6375 | Sequence 6375, Ap |
| 380 | 26 | 56.5 | 123 | 9 | US-10-910-463-7 | Sequence 7, Appli |
| 381 | 26 | 56.5 | 125 | 9 | US-10-793-626-2246 | Sequence 2246, Ap |
| 382 | 26 | 56.5 | 133 | 11 | US-11-188-298-16461 | Sequence 16461, A |
| 383 | 26 | 56.5 | 139 | 9 | US-10-714-887-8 | Sequence 8, Appli |
| 384 | 26 | 56.5 | 139 | 11 | US-11-172-740-889 | Sequence 889, App |
| 385 | 26 | 56.5 | 146 | 11 | US-11-172-740-595 | Sequence 595, App |
| 386 | 26 | 56.5 | 147 | 11 | US-11-188-298-6394 | Sequence 6394, Ap |

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| 387 | 26 | 56.5 | 147 | 11 | US-11-188-298-6459 | Sequence 6459, Ap |
| 388 | 26 | 56.5 | 149 | 9 | US-10-475-075-263 | Sequence 263, App |
| 389 | 26 | 56.5 | 149 | 9 | US-10-475-075-525 | Sequence 525, App |
| 390 | 26 | 56.5 | 152 | 9 | US-10-530-253-39 | Sequence 39, Appl |
| 391 | 26 | 56.5 | 153 | 11 | US-11-212-443-90 | Sequence 90, Appl |
| 392 | 26 | 56.5 | 154 | 11 | US-11-045-004-1846 | Sequence 1846, Ap |
| 393 | 26 | 56.5 | 155 | 11 | US-11-212-443-88 | Sequence 88, Appl |
| 394 | 26 | 56.5 | 158 | 9 | US-10-530-253-19 | Sequence 19, Appl |
| 395 | 26 | 56.5 | 159 | 9 | US-10-689-742-130 | Sequence 130, App |
| 396 | 26 | 56.5 | 161 | 9 | US-10-511-130-24 | Sequence 24, Appl |
| 397 | 26 | 56.5 | 165 | 9 | US-10-793-626-844 | Sequence 844, App |
| 398 | 26 | 56.5 | 165 | 11 | US-11-172-740-1130 | Sequence 1130, Ap |
| 399 | 26 | 56.5 | 169 | 11 | US-11-144-947-354 | Sequence 354, App |
| 400 | 26 | 56.5 | 171 | 11 | US-11-098-686-11012 | Sequence 11012, A |
| 401 | 26 | 56.5 | 179 | 9 | US-10-793-626-3052 | Sequence 3052, Ap |
| 402 | 26 | 56.5 | 181 | 11 | US-11-079-463-5657 | Sequence 5657, Ap |
| 403 | 26 | 56.5 | 183 | 11 | US-11-212-443-86 | Sequence 86, Appl |
| 404 | 26 | 56.5 | 196 | 11 | US-11-079-463-8919 | Sequence 8919, Ap |
| 405 | 26 | 56.5 | 200 | 11 | US-11-050-857-739 | Sequence 739, App |
| 406 | 26 | 56.5 | 200 | 11 | US-11-051-720-1331 | Sequence 1331, Ap |
| 407 | 26 | 56.5 | 202 | 11 | US-11-188-298-6706 | Sequence 6706, Ap |
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| 409 | 26 | 56.5 | 208 | 11 | US-11-123-701-2 | Sequence 2, Appli |
| 410 | 26 | 56.5 | 215 | 11 | US-11-188-298-592 | Sequence 592, App |
| 411 | 26 | 56.5 | 217 | 11 | US-11-050-857-740 | Sequence 740, App |
| 412 | 26 | 56.5 | 217 | 11 | US-11-051-720-1332 | Sequence 1332, Ap |
| 413 | 26 | 56.5 | 223 | 11 | US-11-188-298-9910 | Sequence 9910, Ap |
| 414 | 26 | 56.5 | 225 | 11 | US-11-098-686-11050 | Sequence 11050, A |
| 415 | 26 | 56.5 | 228 | 9 | US-10-502-795-9 | Sequence 9, Appli |
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| 417 | 26 | 56.5 | 228 | 11 | US-11-079-463-5654 | Sequence 5654, Ap |
| 418 | 26 | 56.5 | 235 | 11 | US-11-188-298-7179 | Sequence 7179, Ap |
| 419 | 26 | 56.5 | 238 | 11 | US-11-096-568A-23783 | Sequence 23783, A |
| 420 | 26 | 56.5 | 238 | 11 | US-11-188-298-11887 | Sequence 11887, A |
| 421 | 26 | 56.5 | 239 | 11 | US-11-079-463-7793 | Sequence 7793, Ap |
| 422 | 26 | 56.5 | 240 | 11 | US-11-098-686-10658 | Sequence 10658, A |
| 423 | 26 | 56.5 | 240 | 11 | US-11-188-298-13805 | Sequence 13805, A |
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| 426 | 26 | 56.5 | 248 | 11 | US-11-266-444-1705 | Sequence 1705, Ap |
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| 428 | 26 | 56.5 | 250 | 11 | US-11-054-515-964 | Sequence 964, App |
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| 438 | 26 | 56.5 | 258 | 11 | US-11-096-568A-19499 | Sequence 19499, A |
| 439 | 26 | 56.5 | 262 | 9 | US-10-793-626-876 | Sequence 876, App |
| 440 | 26 | 56.5 | 262 | 11 | US-11-096-568A-3442 | Sequence 3442, Ap |
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| 460 | 26 | 56.5 | 314 | 11 | US-11-156-084-312 | Sequence 312, App |
| 461 | 26 | 56.5 | 317 | 9 | US-10-838-616-32 | Sequence 32, Appl |
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| 467 | 26 | 56.5 | 320 | 11 | US-11-054-281-119 | Sequence 119, App |
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| 469 | 26 | 56.5 | 322 | 9 | US-10-793-626-984 | Sequence 984, App |
| 470 | 26 | 56.5 | 323 | 11 | US-11-087-099-2157 | Sequence 2157, Ap |
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| 483 | 26 | 56.5 | 371 | 9 | US-10-195-883-146 | Sequence 146, App |
| 484 | 26 | 56.5 | 371 | 9 | US-10-195-888-146 | Sequence 146, App |
| 485 | 26 | 56.5 | 371 | 9 | US-10-195-889-146 | Sequence 146, App |
| 486 | 26 | 56.5 | 371 | 9 | US-10-218-784-144 | Sequence 144, App |
| 487 | 26 | 56.5 | 371 | 9 | US-10-219-061-144 | Sequence 144, App |
| 488 | 26 | 56.5 | 371 | 9 | US-10-219-062-144 | Sequence 144, App |
| 489 | 26 | 56.5 | 371 | 9 | US-10-219-064-144 | Sequence 144, App |
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| 494 | 26 | 56.5 | 384 | 11 | US-11-096-568A-2816 | Sequence 2816, Ap |
| 495 | 26 | 56.5 | 384 | 11 | US-11-096-568A-2817 | Sequence 2817, Ap |
| 496 | 26 | 56.5 | 385 | 11 | US-11-096-568A-2815 | Sequence 2815, Ap |
| 497 | 26 | 56.5 | 391 | 11 | US-11-096-568A-1343 | Sequence 1343, Ap |
| 498 | 26 | 56.5 | 393 | 11 | US-11-096-568A-9162 | Sequence 9162, Ap |
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| 507 | 26 | 56.5 | 422 | 11 | US-11-096-568A-8471 | Sequence 8471, Ap |
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| 510 | 26 | 56.5 | 425 | 11 | US-11-096-568A-18168 | Sequence 18168, A |
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| 539 | 26 | 56.5 | 466 | 11 | US-11-096-568A-9143 | Sequence 9143, Ap |
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| 546 | 26 | 56.5 | 475 | 11 | US-11-096-568A-9140 | Sequence 9140, Ap |
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| 550 | 26 | 56.5 | 485 | 11 | US-11-079-463-6147 | Sequence 6147, Ap |
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| 552 | 26 | 56.5 | 487 | 11 | US-11-096-568A-9160 | Sequence 9160, Ap |
| 553 | 26 | 56.5 | 487 | 11 | US-11-096-568A-9163 | Sequence 9163, Ap |
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| 555 | 26 | 56.5 | 493 | 8 | US-10-505-928-694 | Sequence 694, App |
| 556 | 26 | 56.5 | 493 | 11 | US-11-050-857-734 | Sequence 734, App |
| 557 | 26 | 56.5 | 493 | 11 | US-11-051-720-1433 | Sequence 1433, Ap |
| 558 | 26 | 56.5 | 494 | 8 | US-10-505-928-617 | Sequence 617, App |
| 559 | 26 | 56.5 | 495 | 11 | US-11-079-463-8865 | Sequence 8865, Ap |
| 560 | 26 | 56.5 | 497 | 11 | US-11-274-344-17 | Sequence 17, Appl |
| 561 | 26 | 56.5 | 499 | 11 | US-11-188-298-4347 | Sequence 4347, Ap |
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| 566 | 26 | 56.5 | 512 | 11 | US-11-045-004-874 | Sequence 874, App |
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| 568 | 26 | 56.5 | 515 | 11 | US-11-096-568A-18166 | Sequence 18166, A |
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| 572 | 26 | 56.5 | 531 | 11 | US-11-079-463-6019 | Sequence 6019, Ap |
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| 594 | 26 | 56.5 | 681 | 11 | US-11-096-568A-29193 | Sequence 29193, A |
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| 596 | 26 | 56.5 | 705 | 11 | US-11-096-568A-29192 | Sequence 29192, A |
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| 605 | 26 | 56.5 | 757 | 11 | US-11-188-298-1650 | Sequence 1650, Ap |
| 606 | 26 | 56.5 | 757 | 11 | US-11-188-298-3376 | Sequence 3376, Ap |
| 607 | 26 | 56.5 | 757 | 11 | US-11-188-298-6004 | Sequence 6004, Ap |
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| 610 | 26 | 56.5 | 759 | 11 | US-11-188-298-17997 | Sequence 17997, A |
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| 614 | 26 | 56.5 | 772 | 11 | US-11-188-298-2937 | Sequence 2937, Ap |
| 615 | 26 | 56.5 | 780 | 9 | US-10-878-556A-197 | Sequence 197, App |
| 616 | 26 | 56.5 | 780 | 9 | US-10-501-035-375 | Sequence 375, App |
| 617 | 26 | 56.5 | 780 | 9 | US-10-784-004-461 | Sequence 461, App |
| 618 | 26 | 56.5 | 780 | 9 | US-10-784-004-462 | Sequence 462, App |
| 619 | 26 | 56.5 | 780 | 9 | US-10-784-004-779 | Sequence 779, App |
| 620 | 26 | 56.5 | 780 | 9 | US-10-784-004-780 | Sequence 780, App |
| 621 | 26 | 56.5 | 784 | 11 | US-11-188-298-1911 | Sequence 1911, Ap |
| 622 | 26 | 56.5 | 790 | 11 | US-11-096-568A-29191 | Sequence 29191, A |
| 623 | 26 | 56.5 | 791 | 9 | US-10-821-234-962 | Sequence 962, App |
| 624 | 26 | 56.5 | 798 | 9 | US-10-821-234-1034 | Sequence 1034, Ap |
| 625 | 26 | 56.5 | 798 | 11 | US-11-188-298-2123 | Sequence 2123, Ap |
| 626 | 26 | 56.5 | 826 | 10 | US-11-301-554-330 | Sequence 330, App |
| 627 | 26 | 56.5 | 826 | 11 | US-11-288-720-10 | Sequence 10, Appl |
| 628 | 26 | 56.5 | 830 | 9 | US-10-330-773-404 | Sequence 404, App |
| 629 | 26 | 56.5 | 830 | 9 | US-10-330-773-406 | Sequence 406, App |
| 630 | 26 | 56.5 | 832 | 11 | US-11-182-016-8 | Sequence 8, Appli |
| 631 | 26 | 56.5 | 834 | 9 | US-10-501-035-280 | Sequence 280, App |
| 632 | 26 | 56.5 | 849 | 11 | US-11-079-463-9844 | Sequence 9844, Ap |
| 633 | 26 | 56.5 | 852 | 11 | US-11-072-512-3646 | Sequence 3646, Ap |
| 634 | 26 | 56.5 | 856 | 11 | US-11-045-004-2739 | Sequence 2739, Ap |
| 635 | 26 | 56.5 | 870 | 11 | US-11-288-720-11 | Sequence 11, Appl |
| 636 | 26 | 56.5 | 904 | 9 | US-10-967-648A-14 | Sequence 14, Appl |
| 637 | 26 | 56.5 | 932 | 11 | US-11-079-463-6029 | Sequence 6029, Ap |
| 638 | 26 | 56.5 | 932 | 11 | US-11-188-298-20043 | Sequence 20043, A |
| 639 | 26 | 56.5 | 948 | 11 | US-11-079-463-10195 | Sequence 10195, A |
| 640 | 26 | 56.5 | 956 | 11 | US-11-079-463-5853 | Sequence 5853, Ap |
| 641 | 26 | 56.5 | 988 | 11 | US-11-096-568A-29775 | Sequence 29775, A |
| 642 | 26 | 56.5 | 997 | 11 | US-11-078-915-14 | Sequence 14, Appl |
| 643 | 26 | 56.5 | 997 | 11 | US-11-078-915-77 | Sequence 77, Appl |
| 644 | 26 | 56.5 | 998 | 11 | US-11-078-915-2 | Sequence 2, Appli |
| 645 | 26 | 56.5 | 998 | 11 | US-11-078-915-8 | Sequence 8, Appli |
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| 647 | 26 | 56.5 | 1018 | 11 | US-11-078-915-21 | Sequence 21, Appl |
| 648 | 26 | 56.5 | 1021 | 11 | US-11-078-915-3 | Sequence 3, Appli |
| 649 | 26 | 56.5 | 1021 | 11 | US-11-078-915-4 | Sequence 4, Appli |
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| 652 | 26 | 56.5 | 1021 | 11 | US-11-078-915-7 | Sequence 7, Appli |
| 653 | 26 | 56.5 | 1021 | 11 | US-11-078-915-23 | Sequence 23, Appl |
| 654 | 26 | 56.5 | 1031 | 9 | US-10-857-780-22 | Sequence 22, Appl |
| 655 | 26 | 56.5 | 1114 | 9 | US-10-857-780-27 | Sequence 27, Appl |
| 656 | 26 | 56.5 | 1128 | 11 | US-11-037-243-97 | Sequence 97, Appl |
| 657 | 26 | 56.5 | 1152 | 11 | US-11-079-463-10027 | Sequence 10027, A |
| 658 | 26 | 56.5 | 1166 | 11 | US-11-188-298-11021 | Sequence 11021, A |
| 659 | 26 | 56.5 | 1202 | 9 | US-10-330-773-193 | Sequence 193, App |
| 660 | 26 | 56.5 | 1221 | 9 | US-10-506-454-49 | Sequence 49, Appl |
| 661 | 26 | 56.5 | 1463 | 11 | US-11-096-568A-14692 | Sequence 14692, A |
| 662 | 26 | 56.5 | 1473 | 11 | US-11-096-568A-14691 | Sequence 14691, A |
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| 664 | 26 | 56.5 | 1566 | 11 | US-11-188-298-9022 | Sequence 9022, Ap |
| 665 | 26 | 56.5 | 2041 | 11 | US-11-096-568A-32772 | Sequence 32772, A |
| 666 | 26 | 56.5 | 2054 | 11 | US-11-096-568A-32771 | Sequence 32771, A |
| 667 | 26 | 56.5 | 2073 | 11 | US-11-096-568A-32770 | Sequence 32770, A |
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| 671 | 25 | 54.3 | 9 | 11 | US-11-136-079-210 | Sequence 210, App |
| 672 | 25 | 54.3 | 11 | 11 | US-11-047-383-24 | Sequence 24, Appl |
| 673 | 25 | 54.3 | 51 | 11 | US-11-000-463-311 | Sequence 311, App |
| 674 | 25 | 54.3 | 51 | 11 | US-11-000-463-783 | Sequence 783, App |
| 675 | 25 | 54.3 | 62 | 11 | US-11-079-463-6988 | Sequence 6988, Ap |
| 676 | 25 | 54.3 | 64 | 11 | US-11-226-657-151 | Sequence 151, App |
| 677 | 25 | 54.3 | 69 | 11 | US-11-229-769-156 | Sequence 156, App |
| 678 | 25 | 54.3 | 95 | 11 | US-11-050-857-163 | Sequence 163, App |

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| 682 | 25 | 54.3 | 105 | 11 | US-11-172-740-693 | Sequence 693, App |
| 683 | 25 | 54.3 | 121 | 11 | US-11-045-004-2193 | Sequence 2193, Ap |
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| 691 | 25 | 54.3 | 138 | 11 | US-11-079-463-6746 | Sequence 6746, Ap |
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| 698 | 25 | 54.3 | 168 | 11 | US-11-050-857-162 | Sequence 162, App |
| 699 | 25 | 54.3 | 168 | 11 | US-11-051-720-1302 | Sequence 1302, Ap |
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| 701 | 25 | 54.3 | 170 | 11 | US-11-050-857-160 | Sequence 160, App |
| 702 | 25 | 54.3 | 170 | 11 | US-11-051-720-1422 | Sequence 1422, Ap |
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| 704 | 25 | 54.3 | 176 | 11 | US-11-096-568A-24990 | Sequence 24990, A |
| 705 | 25 | 54.3 | 177 | 11 | US-11-096-568A-4323 | Sequence 4323, Ap |
| 706 | 25 | 54.3 | 179 | 11 | US-11-079-463-8697 | Sequence 8697, Ap |
| 707 | 25 | 54.3 | 182 | 11 | US-11-096-568A-24989 | Sequence 24989, A |
| 708 | 25 | 54.3 | 183 | 11 | US-11-096-568A-24433 | Sequence 24433, A |
| 709 | 25 | 54.3 | 183 | 11 | US-11-172-740-698 | Sequence 698, App |
| 710 | 25 | 54.3 | 187 | 9 | US-10-506-454-56 | Sequence 56, Appl |
| 711 | 25 | 54.3 | 193 | 11 | US-11-144-947-406 | Sequence 406, App |
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| 715 | 25 | 54.3 | 198 | 11 | US-11-072-512-3702 | Sequence 3702, Ap |
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| 717 | 25 | 54.3 | 201 | 11 | US-11-249-646-1 | Sequence 1, Appli |
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| 719 | 25 | 54.3 | 201 | 11 | US-11-051-720-1301 | Sequence 1301, Ap |
| 720 | 25 | 54.3 | 203 | 11 | US-11-249-696-3 | Sequence 3, Appli |
| 721 | 25 | 54.3 | 203 | 11 | US-11-249-646-3 | Sequence 3, Appli |
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| 723 | 25 | 54.3 | 207 | 9 | US-10-467-657-3272 | Sequence 3272, Ap |
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| 727 | 25 | 54.3 | 212 | 11 | US-11-096-568A-6731 | Sequence 6731, Ap |
| 728 | 25 | 54.3 | 216 | 9 | US-10-506-454-149 | Sequence 149, App |
| 729 | 25 | 54.3 | 216 | 11 | US-11-098-686-10479 | Sequence 10479, A |
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| 731 | 25 | 54.3 | 219 | 11 | US-11-087-099-5902 | Sequence 5902, Ap |
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| 735 | 25 | 54.3 | 225 | 9 | US-10-454-437-144 | Sequence 144, App |
| 736 | 25 | 54.3 | 226 | 11 | US-11-188-298-18034 | Sequence 18034, A |
| 737 | 25 | 54.3 | 227 | 9 | US-10-467-657-970 | Sequence 970, App |
| 738 | 25 | 54.3 | 229 | 9 | US-10-131-826A-472 | Sequence 472, App |
| 739 | 25 | 54.3 | 229 | 9 | US-10-973-115B-472 | Sequence 472, App |
| 740 | 25 | 54.3 | 229 | 9 | US-10-137-873A-472 | Sequence 472, App |
| 741 | 25 | 54.3 | 229 | 9 | US-10-152-370-472 | Sequence 472, App |
| 742 | 25 | 54.3 | 229 | 11 | US-11-290-153-472 | Sequence 472, App |
| 743 | 25 | 54.3 | 230 | 11 | US-11-096-568A-24296 | Sequence 24296, A |
| 744 | 25 | 54.3 | 234 | 11 | US-11-096-568A-9931 | Sequence 9931, Ap |
| 745 | 25 | 54.3 | 241 | 9 | US-10-793-626-3148 | Sequence 3148, Ap |
| 746 | 25 | 54.3 | 244 | 9 | US-10-915-002-349 | Sequence 349, App |
| 747 | 25 | 54.3 | 245 | 11 | US-11-096-568A-4322 | Sequence 4322, Ap |
| 748 | 25 | 54.3 | 246 | 11 | US-11-072-512-2332 | Sequence 2332, Ap |
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| 753 | 25 | 54.3 | 249 | 11 | US-11-188-298-2479 | Sequence 2479, Ap |
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| 757 | 25 | 54.3 | 250 | 11 | US-11-096-568A-25817 | Sequence 25817, A |
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| 759 | 25 | 54.3 | 253 | 9 | US-10-485-517-199 | Sequence 199, App |
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| 761 | 25 | 54.3 | 258 | 11 | US-11-096-568A-28028 | Sequence 28028, A |
| 762 | 25 | 54.3 | 261 | 11 | US-11-096-568A-31213 | Sequence 31213, A |
| 763 | 25 | 54.3 | 262 | 11 | US-11-096-568A-10941 | Sequence 10941, A |
| 764 | 25 | 54.3 | 263 | 11 | US-11-079-463-6852 | Sequence 6852, Ap |
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| 770 | 25 | 54.3 | 276 | 11 | US-11-096-568A-8289 | Sequence 8289, Ap |
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| 772 | 25 | 54.3 | 283 | 11 | US-11-096-568A-23063 | Sequence 23063, A |
| 773 | 25 | 54.3 | 286 | 11 | US-11-045-004-1492 | Sequence 1492, Ap |
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| 779 | 25 | 54.3 | 303 | 11 | US-11-096-568A-27771 | Sequence 27771, A |
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| 782 | 25 | 54.3 | 305 | 11 | US-11-039-722-6 | Sequence 6, Appli |
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| 784 | 25 | 54.3 | 306 | 11 | US-11-039-722-4 | Sequence 4, Appli |
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| 787 | 25 | 54.3 | 313 | 9 | US-10-793-626-2710 | Sequence 2710, Ap |
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| 789 | 25 | 54.3 | 314 | 11 | US-11-096-568A-21558 | Sequence 21558, A |
| 790 | 25 | 54.3 | 316 | 11 | US-11-096-568A-23202 | Sequence 23202, A |
| 791 | 25 | 54.3 | 316 | 11 | US-11-079-463-6284 | Sequence 6284, Ap |
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| 795 | 25 | 54.3 | 325 | 11 | US-11-079-463-5343 | Sequence 5343, Ap |
| 796 | 25 | 54.3 | 327 | 11 | US-11-188-298-6102 | Sequence 6102, Ap |
| 797 | 25 | 54.3 | 331 | 11 | US-11-096-568A-21557 | Sequence 21557, A |
| 798 | 25 | 54.3 | 331 | 11 | US-11-096-568A-27770 | Sequence 27770, A |
| 799 | 25 | 54.3 | 332 | 11 | US-11-096-568A-33694 | Sequence 33694, A |
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| 801 | 25 | 54.3 | 333 | 11 | US-11-181-234-7 | Sequence 7, Appli |
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| 806 | 25 | 54.3 | 342 | 11 | US-11-096-568A-23062 | Sequence 23062, A |
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| 831 | 25 | 54.3 | 366 | 11 | US-11-096-568A-7326 | Sequence 7326, Ap |
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| 835 | 25 | 54.3 | 369 | 11 | US-11-188-298-9997 | Sequence 9997, Ap |
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| 838 | 25 | 54.3 | 370 | 11 | US-11-079-463-7958 | Sequence 7958, Ap |
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| 841 | 25 | 54.3 | 372 | 11 | US-11-045-004-167 | Sequence 167, App |
| 842 | 25 | 54.3 | 373 | 11 | US-11-087-099-7159 | Sequence 7159, Ap |
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| 853 | 25 | 54.3 | 389 | 11 | US-11-129-143-81 | Sequence 81, Appl |
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| 858 | 25 | 54.3 | 396 | 9 | US-10-667-295-89 | Sequence 89, Appl |
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| 860 | 25 | 54.3 | 398 | 11 | US-11-050-857-735 | Sequence 735, App |
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ALIGNMENTS

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RESULT 1
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-13

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US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
;  APPLICANT: HealthBanks Biotech CO. LTD.
;  TITLE OF INVENTION: Fusion protein for inhibiting cervcal cancer
;  FILE REFERENCE: P7819/0613
;  CURRENT APPLICATION NUMBER: US/11/206,138
;  CURRENT FILING DATE:  2005-08-18
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: PatentIn version 3.3
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;   ORGANISM: Human papillomavirus type 16
US-11-206-138-3

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; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
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;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-1

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Db         37 LLRREVYDF 45


RESULT 4
US-10-530-253-3
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; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
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;  PRIOR FILING DATE: 2002-10-03
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;   ORGANISM: Human papillomavirus type 16
US-10-530-253-3

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RESULT 5
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
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US-10-530-253-5

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Db         37 LLRREVYDF 45


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US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
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;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
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;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-7

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Db        134 LLRREVYDF 142


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; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
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US-10-530-253-9

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US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
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US-10-530-253-11

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RESULT 9
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; Publication No. US20060018928A1
; GENERAL INFORMATION:
;  APPLICANT: PANG, XIAOWU
;  TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
;  TITLE OF INVENTION:  RECOMBINANT REPLICON
;  FILE REFERENCE: 116620-003
;  CURRENT APPLICATION NUMBER: US/11/192,923A
;  CURRENT FILING DATE:  2005-07-29
;  PRIOR APPLICATION NUMBER: CN 03115272.4
;  PRIOR FILING DATE: 2003-01-30
;  PRIOR APPLICATION NUMBER: CN 03115273.2
;  PRIOR FILING DATE: 2003-01-30
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
;   LENGTH: 256
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-11-192-923A-2

  Query Match             100.0%;  Score 46;  DB 11;  Length 256;
  Best Local Similarity   100.0%;  Pred. No. 0.09;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              |||||||||
Db        142 LLRREVYDF 150


RESULT 10
US-10-501-841-107
; Sequence 107, Application US/10501841
; Publication No. US20060084055A1
; GENERAL INFORMATION:
;  APPLICANT: Gaiger, Alexander
;  APPLICANT:  Algate, Paul A.
;  APPLICANT:  Mannion, Jane
;  APPLICANT:  Clapper, Jonathan David
;  APPLICANT:  Wang, Aijun
;  APPLICANT:  Ordonez, Nadia
;  APPLICANT:  Carter, Lauren
;  APPLICANT:  McNeill, Patricia Dianne
;  APPLICANT:  Corixa Corporation
;  TITLE OF INVENTION: Compositions and Methods for the Detection, Diagnosis
;  TITLE OF INVENTION:  and Therapy of Hematological Malignancies
;  FILE REFERENCE: 014058-014402PC
;  CURRENT APPLICATION NUMBER: US/10/501,841
;  CURRENT FILING DATE:  2004-07-14
;  PRIOR APPLICATION NUMBER: US 10/057,475
;  PRIOR FILING DATE: 2002-01-22
;  PRIOR APPLICATION NUMBER: WO PCT/US03/02353
;  PRIOR FILING DATE: 2003-01-22
;  NUMBER OF SEQ ID NOS: 124
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 107
;   LENGTH: 579
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-501-841-107

  Query Match             78.3%;  Score 36;  DB 9;  Length 579;
  Best Local Similarity   87.5%;  Pred. No. 22;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 LRREVYDF 9
              ||||||.|
Db        404 LRREVYSF 411


RESULT 11
US-10-530-253-17
; Sequence 17, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 33
US-10-530-253-17

  Query Match             73.9%;  Score 34;  DB 9;  Length 149;
  Best Local Similarity   77.8%;  Pred. No. 13;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              | | |||||
Db         37 LQRSEVYDF 45


RESULT 12
US-10-530-253-18
; Sequence 18, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 35
US-10-530-253-18

  Query Match             73.9%;  Score 34;  DB 9;  Length 149;
  Best Local Similarity   77.8%;  Pred. No. 13;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              | | |||||
Db         37 LQRSEVYDF 45
```

```
RESULT 13
US-10-530-253-24
; Sequence 24, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 24
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 58
US-10-530-253-24

  Query Match             73.9%;  Score 34;  DB 9;  Length 149;
  Best Local Similarity   77.8%;  Pred. No. 13;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              | | |||||
Db         37 LQRSEVYDF 45


RESULT 14
US-11-087-099-332
; Sequence 332, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 332
;   LENGTH: 775
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
US-11-087-099-332

  Query Match             73.9%;  Score 34;  DB 11;  Length 775;
  Best Local Similarity   62.5%;  Pred. No. 74;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 LRREVYDF 9
              ::|:||||
Db        677 IKRDVYDF 684


RESULT 15
US-10-530-253-22
; Sequence 22, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 22
;   LENGTH: 148
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 52
US-10-530-253-22

  Query Match             71.7%;  Score 33;  DB 9;  Length 148;
  Best Local Similarity   77.8%;  Pred. No. 20;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              | |||||
Db         37 LQRREVYKF 45


RESULT 16
US-10-793-626-388
; Sequence 388, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
;  APPLICANT: KIMMERLY, WILLIAM JOHN
;  TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
;  FILE REFERENCE: PU3480US
;  CURRENT APPLICATION NUMBER: US/10/793,626
;  CURRENT FILING DATE:  2004-03-04
;  PRIOR APPLICATION NUMBER: 60/164,258
;  PRIOR FILING DATE: 1999-11-09
;  NUMBER OF SEQ ID NOS: 4472
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 388
;   LENGTH: 264
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: synthetic
;   OTHER INFORMATION: amino acid sequence
US-10-793-626-388

  Query Match             71.7%;  Score 33;  DB 9;  Length 264;
  Best Local Similarity   71.4%;  Pred. No. 37;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 RREVYDF 9
              :||:|||
Db         72 QREIYDF 78


RESULT 17
US-11-120-308-176
; Sequence 176, Application US/11120308
; Publication No. US20060005277A1
; GENERAL INFORMATION:
;  APPLICANT: Famodu, Omolayo O.
;  APPLICANT:  Forge, Charlie
;  APPLICANT:  Miao, Guo-Hua
;  TITLE OF INVENTION: cDNAs Encoding Polypeptides
;  FILE REFERENCE: BB-1365 US NA
;  CURRENT APPLICATION NUMBER: US/11/120,308
;  CURRENT FILING DATE:  2005-05-02
;  PRIOR APPLICATION NUMBER: US/10/078,770
;  PRIOR FILING DATE: 2002-02-19
;  PRIOR APPLICATION NUMBER: 09/614,188
;  PRIOR FILING DATE: 2000-07-12
;  PRIOR APPLICATION NUMBER: 60/143,400
;  PRIOR FILING DATE: 1999-07-12
```

; PRIOR APPLICATION NUMBER: 60/153,534
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: 60/161,223
; PRIOR FILING DATE: 1999-10-22
; PRIOR APPLICATION NUMBER: 60/159,878
; PRIOR FILING DATE: 1999-10-15
; PRIOR APPLICATION NUMBER: 60/157,401
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/143,419
; PRIOR FILING DATE: 1999-07-12
; PRIOR APPLICATION NUMBER: 60/143,409
; PRIOR FILING DATE: 1999-07-12
; NUMBER OF SEQ ID NOS: 196
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 176
; LENGTH: 449
; TYPE: PRT
; ORGANISM: Triticum aestivum
US-11-120-308-176

Query Match 71.7%; Score 33; DB 11; Length 449;
Best Local Similarity 75.0%; Pred. No. 65;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LRREVYDF 9
|:|||:||
Db 270 LQREVHDF 277

RESULT 18
US-11-098-686-11102
; Sequence 11102, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
; APPLICANT: Kapur, Vivek and Gebhart, Connie J.
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
; TITLE OF INVENTION: FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
; FILE REFERENCE: 09531-128001
; CURRENT APPLICATION NUMBER: US/11/098,686
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31318
; PRIOR FILING DATE: 2003-10-01
; PRIOR APPLICATION NUMBER: US 60/416,395
; PRIOR FILING DATE: 2002-10-04
; NUMBER OF SEQ ID NOS: 11433
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11102
; LENGTH: 554
; TYPE: PRT
; ORGANISM: Lawsonia intracellularis
US-11-098-686-11102

Query Match 71.7%; Score 33; DB 11; Length 554;
Best Local Similarity 71.4%; Pred. No. 82;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LRREVYD 8
:|||:||
Db 278 IRREIYD 284

RESULT 19
US-11-079-463-9656
; Sequence 9656, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 9656
; LENGTH: 790
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-9656

Query Match 71.7%; Score 33; DB 11; Length 790;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 REVYDF 9
||||||
Db 159 REVYDF 164

RESULT 20
US-10-506-454-1673
; Sequence 1673, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
; APPLICANT: Slesarev, Alexi I
; APPLICANT: Mezhevaya, Katja V
; APPLICANT: Polushin, Nikolai N
; APPLICANT: Shcherbinina, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Malykh, Andrei G
; APPLICANT: Kozyavkin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
; TITLE OF INVENTION: Methanopyrus Kandleri AV19 and Monophyly of Archael Methanogens
; TITLE OF INVENTION: and Methods of Use Thereof
; FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; CURRENT FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1673
; LENGTH: 126
; TYPE: PRT
; ORGANISM: Methanopyrus kandleri
US-10-506-454-1673

Query Match 69.6%; Score 32; DB 9; Length 126;
Best Local Similarity 85.7%; Pred. No. 27;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 RREVYDF 9
||| |||
Db 18 RREPYDF 24

RESULT 21
US-11-040-595-9
; Sequence 9, Application US/11040595
; Publication No. US20060014244A1
; GENERAL INFORMATION:
; APPLICANT: Chun, Miyoung
; APPLICANT: Glucksmann, Maria Alexandra
; APPLICANT: Kapeller-Libermann, Rosana
; APPLICANT: Meyers, Rachel E.
; TITLE OF INVENTION: Novel Nucleic Acid Sequences Encoding
; TITLE OF INVENTION: Adenylate Kinase, Phospholipid Scramblase-Like, DNA
; TITLE OF INVENTION: Fragmentation Factor-Like, Phosphatidylserine Synthase-Like,
; TITLE OF INVENTION: and ATPase-Like Molecules and Uses Therefor
; FILE REFERENCE: 35800/247838
; CURRENT APPLICATION NUMBER: US/11/040,595

; CURRENT FILING DATE: 2005-01-21
; PRIOR APPLICATION NUMBER: US/10/165,800
; PRIOR FILING DATE: 2002-06-07
; PRIOR APPLICATION NUMBER: 09/790,179
; PRIOR FILING DATE: 2001-02-21
; PRIOR APPLICATION NUMBER: 60/185,609
; PRIOR FILING DATE: 2000-02-29
; PRIOR APPLICATION NUMBER: 09/790,838
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: 60/185,946
; PRIOR FILING DATE: 2000-02-29
; PRIOR APPLICATION NUMBER: 09/790,180
; PRIOR FILING DATE: 2001-02-21
; PRIOR APPLICATION NUMBER: 60/185,947
; PRIOR FILING DATE: 2000-02-29
; PRIOR APPLICATION NUMBER: 09/795,038
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: 60/186,234
; PRIOR FILING DATE: 2000-02-29
; PRIOR APPLICATION NUMBER: 09/781,677
; PRIOR FILING DATE: 2001-02-21
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 473
; TYPE: PRT
; ORGANISM: Mus musculus
US-11-040-595-9

Query Match 69.6%; Score 32; DB 11; Length 473;
Best Local Similarity 83.3%; Pred. No. 1.1e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 4 REVYDF 9
||:|||
Db 341 REIYDF 346

RESULT 22
US-11-040-595-8
; Sequence 8, Application US/11040595
; Publication No. US20060014244A1
; GENERAL INFORMATION:
; APPLICANT: Chun, Miyoung
; APPLICANT: Glucksmann, Maria Alexandra
; APPLICANT: Kapeller-Libermann, Rosana
; APPLICANT: Meyers, Rachel E.
; TITLE OF INVENTION: Novel Nucleic Acid Sequences Encoding
; TITLE OF INVENTION: Adenylate Kinase, Phospholipid Scramblase-Like, DNA
; TITLE OF INVENTION: Fragmentation Factor-Like, Phosphatidylserine Synthase-Like,
; TITLE OF INVENTION: and ATPase-Like Molecules and Uses Therefor
; FILE REFERENCE: 35800/247838
; CURRENT APPLICATION NUMBER: US/11/040,595
; CURRENT FILING DATE: 2005-01-21
; PRIOR APPLICATION NUMBER: US/10/165,800
; PRIOR FILING DATE: 2002-06-07
; PRIOR APPLICATION NUMBER: 09/790,179
; PRIOR FILING DATE: 2001-02-21
; PRIOR APPLICATION NUMBER: 60/185,609
; PRIOR FILING DATE: 2000-02-29
; PRIOR APPLICATION NUMBER: 09/790,838
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: 60/185,946
; PRIOR FILING DATE: 2000-02-29
; PRIOR APPLICATION NUMBER: 09/790,180
; PRIOR FILING DATE: 2001-02-21
; PRIOR APPLICATION NUMBER: 60/185,947
; PRIOR FILING DATE: 2000-02-29
; PRIOR APPLICATION NUMBER: 09/795,038
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: 60/186,234
; PRIOR FILING DATE: 2000-02-29
; PRIOR APPLICATION NUMBER: 09/781,677
; PRIOR FILING DATE: 2001-02-21
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 474
; TYPE: PRT
; ORGANISM: Cricetulus griseus
US-11-040-595-8

Query Match 69.6%; Score 32; DB 11; Length 474;
Best Local Similarity 83.3%; Pred. No. 1.1e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 4 REVYDF 9
||:|||
Db 341 REIYDF 346

RESULT 23
US-11-087-099-2513
; Sequence 2513, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 2513
; LENGTH: 476
; TYPE: PRT
; ORGANISM: Mesorhizobium loti
US-11-087-099-2513

Query Match 69.6%; Score 32; DB 11; Length 476;
Best Local Similarity 85.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LRREVYD 8
|||| ||
Db 383 LRRETYD 389

RESULT 24
US-11-040-595-6
; Sequence 6, Application US/11040595
; Publication No. US20060014244A1
; GENERAL INFORMATION:
; APPLICANT: Chun, Miyoung
; APPLICANT: Glucksmann, Maria Alexandra
; APPLICANT: Kapeller-Libermann, Rosana
; APPLICANT: Meyers, Rachel E.
; TITLE OF INVENTION: Novel Nucleic Acid Sequences Encoding
; TITLE OF INVENTION: Adenylate Kinase, Phospholipid Scramblase-Like, DNA
; TITLE OF INVENTION: Fragmentation Factor-Like, Phosphatidylserine Synthase-Like,
; TITLE OF INVENTION: and ATPase-Like Molecules and Uses Therefor
; FILE REFERENCE: 35800/247838
; CURRENT APPLICATION NUMBER: US/11/040,595
; CURRENT FILING DATE: 2005-01-21
; PRIOR APPLICATION NUMBER: US/10/165,800
; PRIOR FILING DATE: 2002-06-07
; PRIOR APPLICATION NUMBER: 09/790,179
; PRIOR FILING DATE: 2001-02-21
; PRIOR APPLICATION NUMBER: 60/185,609
; PRIOR FILING DATE: 2000-02-29
; PRIOR APPLICATION NUMBER: 09/790,838
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: 60/185,946
; PRIOR FILING DATE: 2000-02-29
; PRIOR APPLICATION NUMBER: 09/790,180

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;  PRIOR FILING DATE: 2001-02-21
;  PRIOR APPLICATION NUMBER: 60/185,947
;  PRIOR FILING DATE: 2000-02-29
;  PRIOR APPLICATION NUMBER: 09/795,038
;  PRIOR FILING DATE: 2001-02-26
;  PRIOR APPLICATION NUMBER: 60/186,234
;  PRIOR FILING DATE: 2000-02-29
;  PRIOR APPLICATION NUMBER: 09/781,677
;  PRIOR FILING DATE: 2001-02-21
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
;    LENGTH: 487
;    TYPE: PRT
;    ORGANISM: Homo sapiens
US-11-040-595-6

  Query Match             69.6%;  Score 32;  DB 11;  Length 487;
  Best Local Similarity   83.3%;  Pred. No. 1.1e+02;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 REVYDF 9
              ||:|||
Db        363 REIYDF 368


RESULT 25
US-11-096-568A-7667
; Sequence 7667, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 7667
;    LENGTH: 493
;    TYPE: PRT
;    ORGANISM: Glycine max
;    FEATURE:
;    NAME/KEY: misc_feature
;    LOCATION: (1)..(493)
;    OTHER INFORMATION: Ceres Seq. ID no. 15174648
US-11-096-568A-7667

  Query Match             69.6%;  Score 32;  DB 11;  Length 493;
  Best Local Similarity   62.5%;  Pred. No. 1.1e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LLRREVYD 8
              :|| |:||
Db        105 ILREEIYD 112


RESULT 26
US-11-096-568A-7666
; Sequence 7666, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 7666
;    LENGTH: 520
;    TYPE: PRT
;    ORGANISM: Glycine max
;    FEATURE:
;    NAME/KEY: misc_feature
;    LOCATION: (1)..(520)
;    OTHER INFORMATION: Ceres Seq. ID no. 15174647
US-11-096-568A-7666

  Query Match             69.6%;  Score 32;  DB 11;  Length 520;
  Best Local Similarity   62.5%;  Pred. No. 1.2e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LLRREVYD 8
              :|| |:||
Db        132 ILREEIYD 139


RESULT 27
US-10-915-002-190
; Sequence 190, Application US/10915002
; Publication No. US20060078950A1
; GENERAL INFORMATION:
;  APPLICANT: Progulske-Fox, Ann
;  APPLICANT:  Hillman, Jeffrey D.
;  APPLICANT:  Handfield, Martin
;  TITLE OF INVENTION: IDENTIFICATION OF PORPHYROMONAS GINGIVALIS VIRULENCE POLYNUCLEOTII
;  TITLE OF INVENTION:  USE IN DIAGNOSIS ANTIGENS FOR USE IN THE DIAGNOSIS, TREATMENT, AN
;  TITLE OF INVENTION:  PERIODONTAL DISEASES
;  FILE REFERENCE: 02-042
;  CURRENT APPLICATION NUMBER: US/10/915,002
;  CURRENT FILING DATE:  2004-08-10
;  NUMBER OF SEQ ID NOS: 354
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 190
;    LENGTH: 680
;    TYPE: PRT
;    ORGANISM: Porphyromonas gingivalis
US-10-915-002-190

  Query Match             69.6%;  Score 32;  DB 9;  Length 680;
  Best Local Similarity   55.6%;  Pred. No. 1.6e+02;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              ::|||: ||
Db        440 IVRREIIDF 448


RESULT 28
US-11-057-058-63
; Sequence 63, Application US/11057058
; Publication No. US20050244400A1
; GENERAL INFORMATION:
;  APPLICANT: LeBowitz, Jonathan
;  APPLICANT:  Maga, John
;  TITLE OF INVENTION: ACID ALPHA-GLUCOSIDASE AND FRAGMENTS THEREOF
;  FILE REFERENCE: SYM-011
;  CURRENT APPLICATION NUMBER: US/11/057,058
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: US 60/543,812
;  PRIOR FILING DATE: 2004-02-10
;  NUMBER OF SEQ ID NOS: 68
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 63
;    LENGTH: 1841
;    TYPE: PRT
;    ORGANISM: Rattus norvegicus
US-11-057-058-63

  Query Match             69.6%;  Score 32;  DB 11;  Length 1841;
  Best Local Similarity   83.3%;  Pred. No. 4.7e+02;
  Matches    5;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 REVYDF 9
```

```
              ||:|||
Db       1381 REIYDF 1386


RESULT 29
US-11-096-568A-1014
; Sequence 1014, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1014
;   LENGTH: 117
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(117)
;   OTHER INFORMATION: Ceres Seq. ID no. 15218611
US-11-096-568A-1014

  Query Match             67.4%;  Score 31;  DB 11;  Length 117;
  Best Local Similarity   55.6%;  Pred. No. 39;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              ||:|::| |
Db         88 LLKRKIYGF 96


RESULT 30
US-11-096-568A-1013
; Sequence 1013, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1013
;   LENGTH: 150
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(150)
;   OTHER INFORMATION: Ceres Seq. ID no. 15218610
US-11-096-568A-1013

  Query Match             67.4%;  Score 31;  DB 11;  Length 150;
  Best Local Similarity   55.6%;  Pred. No. 51;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              ||:|::| |
Db        121 LLKRKIYGF 129


RESULT 31
US-11-096-568A-1012
; Sequence 1012, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1012
;   LENGTH: 204
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(204)
;   OTHER INFORMATION: Ceres Seq. ID no. 15218609
US-11-096-568A-1012

  Query Match             67.4%;  Score 31;  DB 11;  Length 204;
  Best Local Similarity   55.6%;  Pred. No. 71;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              ||:|::| |
Db        175 LLKRKIYGF 183


RESULT 32
US-10-793-626-2760
; Sequence 2760, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
;  APPLICANT: KIMMERLY, WILLIAM JOHN
;  TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
;  FILE REFERENCE: PU3480US
;  CURRENT APPLICATION NUMBER: US/10/793,626
;  CURRENT FILING DATE:  2004-03-04
;  PRIOR APPLICATION NUMBER: 60/164,258
;  PRIOR FILING DATE: 1999-11-09
;  NUMBER OF SEQ ID NOS: 4472
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2760
;   LENGTH: 319
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: synthetic
;   OTHER INFORMATION: amino acid sequence
US-10-793-626-2760

  Query Match             67.4%;  Score 31;  DB 9;  Length 319;
  Best Local Similarity   50.0%;  Pred. No. 1.1e+02;
  Matches    4;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 LRREVYDF 9
              :| ::|||
Db          9 MRNDIYDF 16


RESULT 33
US-10-915-002-213
; Sequence 213, Application US/10915002
; Publication No. US20060078950A1
; GENERAL INFORMATION:
;  APPLICANT: Progulske-Fox, Ann
;  APPLICANT:  Hillman, Jeffrey D.
;  APPLICANT:  Handfield, Martin
;  TITLE OF INVENTION: IDENTIFICATION OF PORPHYROMONAS GINGIVALIS VIRULENCE POLYNUCLEOTII
;  TITLE OF INVENTION:  USE IN DIAGNOSIS ANTIGENS FOR USE IN THE DIAGNOSIS, TREATMENT, AI
;  TITLE OF INVENTION:  PERIODONTAL DISEASES
;  FILE REFERENCE: 02-042
;  CURRENT APPLICATION NUMBER: US/10/915,002
;  CURRENT FILING DATE:  2004-08-10
;  NUMBER OF SEQ ID NOS: 354
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 213
```

; LENGTH: 326
; TYPE: PRT
; ORGANISM: Porphyromonas gingivalis
US-10-915-002-213

Query Match 67.4%; Score 31; DB 9; Length 326;
Best Local Similarity 75.0%; Pred. No. 1.2e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 LRREVYDF 9
|| ||||
Db 86 LRETVYDF 93

RESULT 34
US-10-467-657-10
; Sequence 10, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SpA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 10
; LENGTH: 415
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-10

Query Match 67.4%; Score 31; DB 9; Length 415;
Best Local Similarity 75.0%; Pred. No. 1.5e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LRREVYDF 9
| |:||||
Db 222 LDRKVYDF 229

RESULT 35
US-10-467-657-5468
; Sequence 5468, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SpA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 5468
; LENGTH: 415
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-5468

Query Match 67.4%; Score 31; DB 9; Length 415;
Best Local Similarity 75.0%; Pred. No. 1.5e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LRREVYDF 9
| |:||||
Db 222 LDRKVYDF 229

RESULT 36
US-11-079-463-9804
; Sequence 9804, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRAC
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 9804
; LENGTH: 544
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-9804

Query Match 67.4%; Score 31; DB 11; Length 544;
Best Local Similarity 71.4%; Pred. No. 2e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 3 RREVYDF 9
|:||:||
Db 191 RKEVFDF 197

RESULT 37
US-09-978-360A-454
; Sequence 454, Application US/09978360A
; Publication No. US20060009633A9
; GENERAL INFORMATION:
; APPLICANT: Edwards, Jean-Baptiste Dumas Milne
; APPLICANT: Duclert, Aymeric
; APPLICANT: Bougueleret, Lydie
; APPLICANT: Jobert, Severin
; APPLICANT: Clusel, Catherine
; TITLE OF INVENTION: Complementary DNA's Encoding Proteins with Signal Peptides
; FILE REFERENCE: 56.US4.CIP
; CURRENT APPLICATION NUMBER: US/09/978,360A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: US 60/066,677
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: US 60/069,957
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: US 60/074,121
; PRIOR FILING DATE: 1998-02-09
; PRIOR APPLICATION NUMBER: US 60/081,563
; PRIOR FILING DATE: 1998-04-13
; PRIOR APPLICATION NUMBER: US 60/096,116
; PRIOR FILING DATE: 1998-08-10
; PRIOR APPLICATION NUMBER: US 60/099,273
; PRIOR FILING DATE: -09-04
; PRIOR APPLICATION NUMBER: US 09/191,997
; PRIOR FILING DATE: 1998-11-13
; PRIOR APPLICATION NUMBER: US 09/215,435
; PRIOR FILING DATE: 1998-12-17
; PRIOR APPLICATION NUMBER: PCT/IB98/02122
; PRIOR FILING DATE: 1998-12-17
; PRIOR APPLICATION NUMBER: US 09/247,155
; PRIOR FILING DATE: 1999-02-09
; Remaining Prior Application data removed - See File Wrapper or PALM.

```
;  NUMBER OF SEQ ID NOS: 810
;  SOFTWARE: Patent.pm
; SEQ ID NO 454
;    LENGTH: 89
;    TYPE: PRT
;    ORGANISM: Homo Sapiens
;    FEATURE:
;    NAME/KEY: SIGNAL
;    LOCATION: -21..-1
US-09-978-360A-454

  Query Match             65.2%;  Score 30;  DB 7;  Length 89;
  Best Local Similarity   62.5%;  Pred. No. 46;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 LRREVYDF 9
              | |:|:||
Db         22 LERQVFDF 29


RESULT 38
US-11-188-298-19159
; Sequence 19159, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 19159
;    LENGTH: 147
;    TYPE: PRT
;    ORGANISM: Triticum aestivum
US-11-188-298-19159

  Query Match             65.2%;  Score 30;  DB 11;  Length 147;
  Best Local Similarity   75.0%;  Pred. No. 79;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 LLRREVYD 8
              ||| | ||
Db        119 LLRNEFYD 126


RESULT 39
US-10-530-253-23
; Sequence 23, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 23
;    LENGTH: 155
;    TYPE: PRT
;    ORGANISM: Human papillomavirus type 56
US-10-530-253-23

  Query Match             65.2%;  Score 30;  DB 9;  Length 155;
  Best Local Similarity   66.7%;  Pred. No. 84;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              | | |||:|
Db         40 LTRAEVYNF 48


RESULT 40
US-10-530-253-26
; Sequence 26, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 26
;    LENGTH: 158
;    TYPE: PRT
;    ORGANISM: Human papillomavirus type 68
US-10-530-253-26

  Query Match             65.2%;  Score 30;  DB 9;  Length 158;
  Best Local Similarity   66.7%;  Pred. No. 85;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              | | |||:|
Db         39 LQRTEVYEF 47


RESULT 41
US-10-902-137-9
; Sequence 9, Application US/10902137
; Publication No. US20060026702A1
; GENERAL INFORMATION:
;  APPLICANT: Rockman, Howard A.
;  APPLICANT:  Naga Prasad, Sathyamangla V.
;  APPLICANT:  Laporte, Stephane A.
;  APPLICANT:  Barak, Larry S.
;  APPLICANT:  Caron, Marc G.
;  TITLE OF INVENTION: Phosphoinositide 3-Kinase Mediated Inhibition of GPCRs
;  FILE REFERENCE: 033072-064
;  CURRENT APPLICATION NUMBER: US/10/902,137
;  CURRENT FILING DATE:  2004-07-30
;  PRIOR APPLICATION NUMBER: US/10/101,235
;  PRIOR FILING DATE: 2002-03-19
;  NUMBER OF SEQ ID NOS: 9
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
;    LENGTH: 195
;    TYPE: PRT
;    ORGANISM: Homo sapiens
US-10-902-137-9

  Query Match             65.2%;  Score 30;  DB 9;  Length 195;
  Best Local Similarity   75.0%;  Pred. No. 1.1e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LLRREVYD 8
              | ||||:|
```

```
Db         79 LARREVWD 86


RESULT 42
US-10-902-137-2
; Sequence 2, Application US/10902137
; Publication No. US20060026702A1
; GENERAL INFORMATION:
;  APPLICANT: Rockman, Howard A.
;  APPLICANT:  Naga Prasad, Sathyamangla V.
;  APPLICANT:  Laporte, Stephane A.
;  APPLICANT:  Barak, Larry S.
;  APPLICANT:  Caron, Marc G.
;  TITLE OF INVENTION: Phosphoinositide 3-Kinase Mediated Inhibition of GPCRs
;  FILE REFERENCE: 033072-064
;  CURRENT APPLICATION NUMBER: US/10/902,137
;  CURRENT FILING DATE:  2004-07-30
;  PRIOR APPLICATION NUMBER: US/10/101,235
;  PRIOR FILING DATE: 2002-03-19
;  NUMBER OF SEQ ID NOS: 9
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 204
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-902-137-2

  Query Match             65.2%;  Score 30;  DB 9;  Length 204;
  Best Local Similarity   75.0%;  Pred. No. 1.1e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LLRREVYD 8
              | ||||:|
Db         88 LARREVWD 95


RESULT 43
US-11-096-568A-19644
; Sequence 19644, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 19644
;   LENGTH: 364
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(364)
;   OTHER INFORMATION: Ceres Seq. ID no. 12373984
US-11-096-568A-19644

  Query Match             65.2%;  Score 30;  DB 11;  Length 364;
  Best Local Similarity   55.6%;  Pred. No. 2.1e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              :|||  :||
Db         71 ILRRSFFDF 79


RESULT 44
US-10-513-759-4
; Sequence 4, Application US/10513759
; Publication No. US20050287655A1
; GENERAL INFORMATION:
;  APPLICANT: Kyowa Hakko Kogyo Co., Ltd.
;  TITLE OF INVENTION: Process for producing mevalonic acid
;  FILE REFERENCE: 1484
;  CURRENT APPLICATION NUMBER: US/10/513,759
;  CURRENT FILING DATE:  2004-11-09
;  PRIOR APPLICATION NUMBER: JP 2002-135073
;  PRIOR FILING DATE: 2002-05-10
;  NUMBER OF SEQ ID NOS: 22
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
;   LENGTH: 383
;   TYPE: PRT
;   ORGANISM: Enterococcus faecalis
US-10-513-759-4

  Query Match             65.2%;  Score 30;  DB 9;  Length 383;
  Best Local Similarity   44.4%;  Pred. No. 2.2e+02;
  Matches    4;  Conservative    4;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              :| :::|||
Db        177 MLTQDIYDF 185


RESULT 45
US-11-129-143-76
; Sequence 76, Application US/11129143
; Publication No. US20050266518A1
; GENERAL INFORMATION:
;  APPLICANT: BERRY, Alan
;  APPLICANT:  BRETZEL, Werner
;  APPLICANT:  HUMBELIN, Markus
;  APPLICANT:  LOPEZ-ULIBARRI, Rual
;  APPLICANT:  MAYER, Anne F.
;  APPLICANT:  YELISEEV, Alexei A.
;  TITLE OF INVENTION: IMPROVED ISOPRENOID PRODUCTION
;  FILE REFERENCE: C38435/121966
;  CURRENT APPLICATION NUMBER: US/11/129,143
;  CURRENT FILING DATE:  2005-05-13
;  NUMBER OF SEQ ID NOS: 197
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 76
;   LENGTH: 383
;   TYPE: PRT
;   ORGANISM: Enterococcus faecalis
US-11-129-143-76

  Query Match             65.2%;  Score 30;  DB 11;  Length 383;
  Best Local Similarity   44.4%;  Pred. No. 2.2e+02;
  Matches    4;  Conservative    4;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              :| :::|||
Db        177 MLTQDIYDF 185


RESULT 46
US-11-096-568A-13063
; Sequence 13063, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides I
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 13063
;   LENGTH: 384
;   TYPE: PRT
;   ORGANISM: Triticum aestivum
;   FEATURE:
;   NAME/KEY: misc_feature
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;   LOCATION: (1)..(384)
;   OTHER INFORMATION: Ceres Seq. ID no. 15169654
US-11-096-568A-13063

  Query Match             65.2%;  Score 30;  DB 11;  Length 384;
  Best Local Similarity   62.5%;  Pred. No. 2.2e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LLRREVYD 8
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Db        368 LLQEEIYD 375


RESULT 47
US-11-096-568A-22817
; Sequence 22817, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 22817
;   LENGTH: 386
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(386)
;   OTHER INFORMATION: Ceres Seq. ID no. 12410246
US-11-096-568A-22817

  Query Match             65.2%;  Score 30;  DB 11;  Length 386;
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  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LLRREVYD 8
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Db        371 LLQEEIYD 378


RESULT 48
US-11-096-568A-13062
; Sequence 13062, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 13062
;   LENGTH: 392
;   TYPE: PRT
;   ORGANISM: Triticum aestivum
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(392)
;   OTHER INFORMATION: Ceres Seq. ID no. 15169653
US-11-096-568A-13062

  Query Match             65.2%;  Score 30;  DB 11;  Length 392;
  Best Local Similarity   62.5%;  Pred. No. 2.2e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LLRREVYD 8
              ||: |:||
Db        376 LLQEEIYD 383


RESULT 49
US-11-096-568A-22816
; Sequence 22816, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 22816
;   LENGTH: 394
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(394)
;   OTHER INFORMATION: Ceres Seq. ID no. 12410245
US-11-096-568A-22816

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Qy          1 LLRREVYD 8
              ||: |:||
Db        379 LLQEEIYD 386


RESULT 50
US-11-096-568A-19643
; Sequence 19643, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 19643
;   LENGTH: 397
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(397)
;   OTHER INFORMATION: Ceres Seq. ID no. 12373983
US-11-096-568A-19643

  Query Match             65.2%;  Score 30;  DB 11;  Length 397;
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  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 LLRREVYDF 9
              :|||  :||
Db        104 ILRRSFFDF 112


Search completed: May  5, 2006, 08:51:35
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OM protein - protein search, using sw model

Run on: May 5, 2006, 04:01:20 ; Search time 20.7 Seconds
(without alignments)
35.946 Million cell updates/sec

Title: US-08-170-344-67
Perfect score: 48
Sequence: 1 VYDFAFRDL 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Issued_Patents_AA:*
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6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 3 | 48 | 100.0 | 14 | 1 | US-07-909-122-4 | Sequence 4, Appli |
| 4 | 48 | 100.0 | 22 | 2 | US-09-980-523A-6 | Sequence 6, Appli |
| 5 | 48 | 100.0 | 23 | 2 | US-09-601-729-276 | Sequence 276, App |
| 6 | 48 | 100.0 | 151 | 2 | US-09-701-080C-18 | Sequence 18, Appl |
| 7 | 48 | 100.0 | 158 | 2 | US-09-980-523A-2 | Sequence 2, Appli |
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| 11 | 48 | 100.0 | 172 | 2 | US-09-359-382-14 | Sequence 14, Appl |
| 12 | 48 | 100.0 | 182 | 1 | US-08-117-083-10 | Sequence 10, Appl |
| 13 | 48 | 100.0 | 243 | 2 | US-09-462-993-1 | Sequence 1, Appli |
| 14 | 48 | 100.0 | 266 | 2 | US-08-860-165-10 | Sequence 10, Appl |
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| 16 | 48 | 100.0 | 266 | 2 | US-09-367-309A-1 | Sequence 1, Appli |
| 17 | 48 | 100.0 | 273 | 2 | US-09-485-885-4 | Sequence 4, Appli |
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| 19 | 48 | 100.0 | 371 | 2 | US-09-485-885-6 | Sequence 6, Appli |
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| 25 | 37 | 77.1 | 271 | 1 | US-08-117-083-14 | Sequence 14, Appl |
| 26 | 37 | 77.1 | 278 | 2 | US-09-485-885-21 | Sequence 21, Appl |
| 27 | 37 | 77.1 | 383 | 2 | US-09-485-885-23 | Sequence 23, Appl |
| 28 | 35 | 72.9 | 188 | 2 | US-09-583-110-3915 | Sequence 3915, Ap |
| 29 | 35 | 72.9 | 290 | 2 | US-09-248-796A-17543 | Sequence 17543, A |
| 30 | 35 | 72.9 | 321 | 2 | US-09-758-759-111 | Sequence 111, App |
| 31 | 35 | 72.9 | 324 | 1 | US-08-746-797-2 | Sequence 2, Appli |
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| 36 | 33 | 68.8 | 82 | 2 | US-09-270-767-36699 | Sequence 36699, A |
| 37 | 33 | 68.8 | 82 | 2 | US-09-270-767-51916 | Sequence 51916, A |
| 38 | 33 | 68.8 | 134 | 2 | US-09-107-532A-5878 | Sequence 5878, Ap |
| 39 | 33 | 68.8 | 391 | 2 | US-09-107-433-4486 | Sequence 4486, Ap |
| 40 | 33 | 68.8 | 444 | 2 | US-09-583-110-4066 | Sequence 4066, Ap |
| 41 | 33 | 68.8 | 452 | 2 | US-09-543-681A-6351 | Sequence 6351, Ap |
| 42 | 32 | 66.7 | 137 | 2 | US-09-107-532A-4634 | Sequence 4634, Ap |
| 43 | 32 | 66.7 | 247 | 2 | US-09-452-239-44 | Sequence 44, Appl |
| 44 | 32 | 66.7 | 247 | 2 | US-09-452-239-46 | Sequence 46, Appl |
| 45 | 32 | 66.7 | 262 | 2 | US-09-605-703B-872 | Sequence 872, App |
| 46 | 32 | 66.7 | 262 | 2 | US-09-605-703B-874 | Sequence 874, App |
| 47 | 32 | 66.7 | 268 | 2 | US-09-270-767-41497 | Sequence 41497, A |
| 48 | 32 | 66.7 | 280 | 2 | US-09-252-991A-16878 | Sequence 16878, A |
| 49 | 32 | 66.7 | 286 | 2 | US-09-248-796A-17939 | Sequence 17939, A |
| 50 | 32 | 66.7 | 306 | 2 | US-09-248-796A-18343 | Sequence 18343, A |
| 51 | 32 | 66.7 | 1580 | 1 | US-08-804-227C-11 | Sequence 11, Appl |
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| 53 | 32 | 66.7 | 2296 | 1 | US-08-286-819A-27 | Sequence 27, Appl |
| 54 | 32 | 66.7 | 2296 | 2 | US-08-980-357-27 | Sequence 27, Appl |
| 55 | 32 | 66.7 | 2296 | 2 | US-09-357-375-27 | Sequence 27, Appl |
| 56 | 31 | 64.6 | 9 | 1 | US-08-787-547-103 | Sequence 103, App |
| 57 | 31 | 64.6 | 9 | 2 | US-08-197-484-67 | Sequence 67, Appl |
| 58 | 31 | 64.6 | 9 | 4 | PCT-US95-02121-67 | Sequence 67, Appl |
| 59 | 31 | 64.6 | 71 | 2 | US-09-134-001C-4271 | Sequence 4271, Ap |
| 60 | 31 | 64.6 | 107 | 2 | US-09-134-000C-3809 | Sequence 3809, Ap |
| 61 | 31 | 64.6 | 139 | 2 | US-09-902-540-10354 | Sequence 10354, A |
| 62 | 31 | 64.6 | 168 | 2 | US-09-270-767-32844 | Sequence 32844, A |
| 63 | 31 | 64.6 | 168 | 2 | US-09-270-767-48061 | Sequence 48061, A |
| 64 | 31 | 64.6 | 286 | 2 | US-09-328-352-8060 | Sequence 8060, Ap |
| 65 | 31 | 64.6 | 311 | 2 | US-09-248-796A-24157 | Sequence 24157, A |
| 66 | 31 | 64.6 | 326 | 2 | US-09-134-000C-4989 | Sequence 4989, Ap |
| 67 | 31 | 64.6 | 364 | 2 | US-09-710-279-3076 | Sequence 3076, Ap |
| 68 | 31 | 64.6 | 373 | 2 | US-09-134-001C-4798 | Sequence 4798, Ap |
| 69 | 31 | 64.6 | 413 | 2 | US-09-248-796A-25045 | Sequence 25045, A |
| 70 | 31 | 64.6 | 414 | 1 | US-08-599-171A-25 | Sequence 25, Appl |
| 71 | 31 | 64.6 | 414 | 1 | US-08-646-590B-25 | Sequence 25, Appl |
| 72 | 31 | 64.6 | 414 | 2 | US-09-069-226-25 | Sequence 25, Appl |
| 73 | 31 | 64.6 | 414 | 2 | US-09-412-184-25 | Sequence 25, Appl |
| 74 | 31 | 64.6 | 584 | 2 | US-09-911-909B-14 | Sequence 14, Appl |
| 75 | 31 | 64.6 | 589 | 2 | US-09-911-909B-15 | Sequence 15, Appl |
| 76 | 31 | 64.6 | 589 | 2 | US-09-538-092-426 | Sequence 426, App |
| 77 | 31 | 64.6 | 633 | 2 | US-09-902-540-13614 | Sequence 13614, A |
| 78 | 31 | 64.6 | 811 | 2 | US-09-489-039A-11609 | Sequence 11609, A |
| 79 | 31 | 64.6 | 1253 | 2 | US-08-864-785-2 | Sequence 2, Appli |
| 80 | 31 | 64.6 | 1927 | 2 | US-10-152-886-63 | Sequence 63, Appl |
| 81 | 31 | 64.6 | 1956 | 2 | US-10-152-886-23 | Sequence 23, Appl |
| 82 | 31 | 64.6 | 1977 | 2 | US-10-152-886-33 | Sequence 33, Appl |
| 83 | 30 | 62.5 | 38 | 1 | US-08-176-500-45 | Sequence 45, Appl |
| 84 | 30 | 62.5 | 38 | 1 | US-08-471-052A-45 | Sequence 45, Appl |
| 85 | 30 | 62.5 | 38 | 1 | US-08-189-331-45 | Sequence 45, Appl |
| 86 | 30 | 62.5 | 38 | 1 | US-08-471-939-45 | Sequence 45, Appl |
| 87 | 30 | 62.5 | 38 | 1 | US-08-471-800-45 | Sequence 45, Appl |
| 88 | 30 | 62.5 | 38 | 1 | US-08-471-068-45 | Sequence 45, Appl |
| 89 | 30 | 62.5 | 61 | 2 | US-09-270-767-58062 | Sequence 58062, A |
| 90 | 30 | 62.5 | 61 | 2 | US-09-248-796A-24735 | Sequence 24735, A |
| 91 | 30 | 62.5 | 77 | 2 | US-09-248-796A-25472 | Sequence 25472, A |
| 92 | 30 | 62.5 | 237 | 2 | US-09-583-110-5199 | Sequence 5199, Ap |
| 93 | 30 | 62.5 | 241 | 2 | US-09-107-433-3412 | Sequence 3412, Ap |
| 94 | 30 | 62.5 | 260 | 1 | US-08-595-559-1 | Sequence 1, Appli |
| 95 | 30 | 62.5 | 288 | 2 | US-09-270-767-42745 | Sequence 42745, A |
| 96 | 30 | 62.5 | 313 | 2 | US-09-438-185A-1056 | Sequence 1056, Ap |
| 97 | 30 | 62.5 | 314 | 2 | US-09-198-452A-1182 | Sequence 1182, Ap |
| 98 | 30 | 62.5 | 320 | 2 | US-09-198-452A-1130 | Sequence 1130, Ap |
| 99 | 30 | 62.5 | 406 | 2 | US-09-248-796A-18220 | Sequence 18220, A |
| 100 | 30 | 62.5 | 432 | 2 | US-09-489-039A-7909 | Sequence 7909, Ap |

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| 101 | 30 | 62.5 | 466 | 2 | US-09-902-540-11091 | Sequence 11091, A |
| 102 | 30 | 62.5 | 468 | 2 | US-09-581-831-5 | Sequence 5, Appli |
| 103 | 30 | 62.5 | 529 | 2 | US-09-504-358-22 | Sequence 22, Appl |
| 104 | 30 | 62.5 | 529 | 2 | US-09-954-314-22 | Sequence 22, Appl |
| 105 | 30 | 62.5 | 529 | 2 | US-10-230-562-22 | Sequence 22, Appl |
| 106 | 30 | 62.5 | 644 | 2 | US-09-198-452A-63 | Sequence 63, Appl |
| 107 | 30 | 62.5 | 647 | 2 | US-09-438-185A-45 | Sequence 45, Appl |
| 108 | 30 | 62.5 | 653 | 2 | US-09-443-184-50 | Sequence 50, Appl |
| 109 | 30 | 62.5 | 718 | 2 | US-09-252-991A-27540 | Sequence 27540, A |
| 110 | 30 | 62.5 | 727 | 2 | US-09-134-000C-6725 | Sequence 6725, Ap |
| 111 | 30 | 62.5 | 1288 | 1 | US-07-727-814B-2 | Sequence 2, Appli |
| 112 | 30 | 62.5 | 1288 | 1 | US-08-258-614-2 | Sequence 2, Appli |
| 113 | 30 | 62.5 | 1848 | 2 | US-08-296-791-6 | Sequence 6, Appli |
| 114 | 30 | 62.5 | 1848 | 2 | US-09-839-996-6 | Sequence 6, Appli |
| 115 | 30 | 62.5 | 1848 | 2 | US-10-080-505-6 | Sequence 6, Appli |
| 116 | 30 | 62.5 | 1848 | 2 | US-10-645-655-6 | Sequence 6, Appli |
| 117 | 30 | 62.5 | 1848 | 4 | PCT-US95-10661A-6 | Sequence 6, Appli |
| 118 | 30 | 62.5 | 3201 | 2 | US-09-679-279-15 | Sequence 15, Appl |
| 119 | 29 | 60.4 | 17 | 2 | US-09-048-473-15 | Sequence 15, Appl |
| 120 | 29 | 60.4 | 60 | 2 | US-10-179-784-15 | Sequence 15, Appl |
| 121 | 29 | 60.4 | 76 | 2 | US-09-621-976-6064 | Sequence 6064, Ap |
| 122 | 29 | 60.4 | 100 | 2 | US-09-248-796A-26727 | Sequence 26727, A |
| 123 | 29 | 60.4 | 123 | 2 | US-09-107-532A-4465 | Sequence 4465, Ap |
| 124 | 29 | 60.4 | 140 | 2 | US-09-252-991A-16605 | Sequence 16605, A |
| 125 | 29 | 60.4 | 154 | 2 | US-09-248-796A-28126 | Sequence 28126, A |
| 126 | 29 | 60.4 | 165 | 2 | US-09-107-532A-6264 | Sequence 6264, Ap |
| 127 | 29 | 60.4 | 174 | 2 | US-09-902-540-15955 | Sequence 15955, A |
| 128 | 29 | 60.4 | 182 | 2 | US-09-248-796A-16970 | Sequence 16970, A |
| 129 | 29 | 60.4 | 203 | 2 | US-09-788-654A-4 | Sequence 4, Appli |
| 130 | 29 | 60.4 | 213 | 2 | US-09-270-767-35133 | Sequence 35133, A |
| 131 | 29 | 60.4 | 213 | 2 | US-09-270-767-50350 | Sequence 50350, A |
| 132 | 29 | 60.4 | 227 | 2 | US-09-107-532A-6769 | Sequence 6769, Ap |
| 133 | 29 | 60.4 | 266 | 2 | US-09-134-000C-3456 | Sequence 3456, Ap |
| 134 | 29 | 60.4 | 268 | 2 | US-09-605-703B-658 | Sequence 658, App |
| 135 | 29 | 60.4 | 268 | 2 | US-09-605-703B-660 | Sequence 660, App |
| 136 | 29 | 60.4 | 282 | 2 | US-09-902-540-16208 | Sequence 16208, A |
| 137 | 29 | 60.4 | 296 | 2 | US-09-949-016-10913 | Sequence 10913, A |
| 138 | 29 | 60.4 | 353 | 2 | US-09-543-681A-7879 | Sequence 7879, Ap |
| 139 | 29 | 60.4 | 355 | 2 | US-09-328-352-6556 | Sequence 6556, Ap |
| 140 | 29 | 60.4 | 375 | 1 | US-08-871-268A-2 | Sequence 2, Appli |
| 141 | 29 | 60.4 | 375 | 1 | US-08-819-458A-4 | Sequence 4, Appli |
| 142 | 29 | 60.4 | 375 | 2 | US-08-871-267B-4 | Sequence 4, Appli |
| 143 | 29 | 60.4 | 375 | 2 | US-09-618-419-4 | Sequence 4, Appli |
| 144 | 29 | 60.4 | 375 | 2 | US-09-163-674-2 | Sequence 2, Appli |
| 145 | 29 | 60.4 | 380 | 2 | US-09-461-325-161 | Sequence 161, App |
| 146 | 29 | 60.4 | 380 | 2 | US-10-012-542-161 | Sequence 161, App |
| 147 | 29 | 60.4 | 380 | 2 | US-10-115-123-161 | Sequence 161, App |
| 148 | 29 | 60.4 | 394 | 2 | US-09-048-473-2 | Sequence 2, Appli |
| 149 | 29 | 60.4 | 408 | 2 | US-09-252-991A-20095 | Sequence 20095, A |
| 150 | 29 | 60.4 | 427 | 2 | US-09-591-447D-2 | Sequence 2, Appli |
| 151 | 29 | 60.4 | 428 | 2 | US-09-591-447D-4 | Sequence 4, Appli |
| 152 | 29 | 60.4 | 431 | 2 | US-09-270-767-57907 | Sequence 57907, A |
| 153 | 29 | 60.4 | 446 | 2 | US-09-489-039A-12283 | Sequence 12283, A |
| 154 | 29 | 60.4 | 448 | 2 | US-09-252-991A-24213 | Sequence 24213, A |
| 155 | 29 | 60.4 | 473 | 2 | US-09-949-016-8448 | Sequence 8448, Ap |
| 156 | 29 | 60.4 | 473 | 2 | US-09-999-833A-400 | Sequence 400, App |
| 157 | 29 | 60.4 | 473 | 2 | US-10-020-445A-400 | Sequence 400, App |
| 158 | 29 | 60.4 | 477 | 2 | US-09-489-039A-9937 | Sequence 9937, Ap |
| 159 | 29 | 60.4 | 487 | 2 | US-09-252-991A-29392 | Sequence 29392, A |
| 160 | 29 | 60.4 | 488 | 2 | US-09-489-039A-10133 | Sequence 10133, A |
| 161 | 29 | 60.4 | 502 | 2 | US-09-248-796A-17327 | Sequence 17327, A |
| 162 | 29 | 60.4 | 517 | 2 | US-09-252-991A-31115 | Sequence 31115, A |
| 163 | 29 | 60.4 | 526 | 2 | US-09-538-092-962 | Sequence 962, App |
| 164 | 29 | 60.4 | 526 | 2 | US-10-418-036-20 | Sequence 20, Appl |
| 165 | 29 | 60.4 | 547 | 2 | US-09-949-016-10754 | Sequence 10754, A |
| 166 | 29 | 60.4 | 555 | 2 | US-09-270-767-42597 | Sequence 42597, A |
| 167 | 29 | 60.4 | 621 | 2 | US-09-543-681A-6294 | Sequence 6294, Ap |
| 168 | 29 | 60.4 | 624 | 2 | US-08-947-965-78 | Sequence 78, Appl |
| 169 | 29 | 60.4 | 628 | 2 | US-09-107-532A-6437 | Sequence 6437, Ap |
| 170 | 29 | 60.4 | 655 | 1 | US-08-469-202-27 | Sequence 27, Appl |
| 171 | 29 | 60.4 | 655 | 1 | US-08-469-202-28 | Sequence 28, Appl |
| 172 | 29 | 60.4 | 655 | 1 | US-08-484-434C-34 | Sequence 34, Appl |
| 173 | 29 | 60.4 | 655 | 1 | US-08-484-434C-35 | Sequence 35, Appl |
| 174 | 29 | 60.4 | 655 | 2 | US-09-384-361-34 | Sequence 34, Appl |
| 175 | 29 | 60.4 | 655 | 2 | US-09-384-361-35 | Sequence 35, Appl |
| 176 | 29 | 60.4 | 730 | 2 | US-09-291-170A-3 | Sequence 3, Appli |
| 177 | 29 | 60.4 | 730 | 2 | US-09-724-884-3 | Sequence 3, Appli |
| 178 | 29 | 60.4 | 730 | 2 | US-09-724-592-3 | Sequence 3, Appli |
| 179 | 29 | 60.4 | 730 | 2 | US-09-673-222-3 | Sequence 3, Appli |
| 180 | 29 | 60.4 | 797 | 2 | US-09-198-452A-636 | Sequence 636, App |
| 181 | 29 | 60.4 | 814 | 2 | US-09-438-185A-596 | Sequence 596, App |
| 182 | 29 | 60.4 | 837 | 1 | US-08-680-326-117 | Sequence 117, App |
| 183 | 29 | 60.4 | 1109 | 2 | US-09-529-239D-31 | Sequence 31, Appl |
| 184 | 29 | 60.4 | 1249 | 2 | US-09-538-092-1031 | Sequence 1031, Ap |
| 185 | 29 | 60.4 | 1249 | 2 | US-09-949-016-6338 | Sequence 6338, Ap |
| 186 | 29 | 60.4 | 1254 | 2 | US-09-949-016-9737 | Sequence 9737, Ap |
| 187 | 29 | 60.4 | 1287 | 1 | US-08-200-232-2 | Sequence 2, Appli |
| 188 | 29 | 60.4 | 1287 | 4 | PCT-US95-02219-2 | Sequence 2, Appli |
| 189 | 29 | 60.4 | 1287 | 4 | PCT-US95-02219A-2 | Sequence 2, Appli |
| 190 | 29 | 60.4 | 1296 | 2 | US-08-470-260-3 | Sequence 3, Appli |
| 191 | 29 | 60.4 | 1296 | 2 | US-08-471-491-3 | Sequence 3, Appli |
| 192 | 29 | 60.4 | 1296 | 2 | US-08-466-662-3 | Sequence 3, Appli |
| 193 | 29 | 60.4 | 1420 | 1 | US-08-540-804-14 | Sequence 14, Appl |
| 194 | 29 | 60.4 | 1420 | 1 | US-08-218-265-14 | Sequence 14, Appl |
| 195 | 29 | 60.4 | 1420 | 2 | US-08-521-872-14 | Sequence 14, Appl |
| 196 | 29 | 60.4 | 1420 | 2 | US-08-590-399-14 | Sequence 14, Appl |
| 197 | 29 | 60.4 | 1420 | 2 | US-09-487-558B-356 | Sequence 356, App |
| 198 | 29 | 60.4 | 1939 | 2 | US-09-949-016-6925 | Sequence 6925, Ap |
| 199 | 29 | 60.4 | 1942 | 2 | US-09-949-016-8135 | Sequence 8135, Ap |
| 200 | 29 | 60.4 | 2353 | 2 | US-09-377-155-33 | Sequence 33, Appl |
| 201 | 29 | 60.4 | 2353 | 2 | US-08-913-942-4 | Sequence 4, Appli |
| 202 | 29 | 60.4 | 2353 | 2 | US-09-669-974-33 | Sequence 33, Appl |
| 203 | 29 | 60.4 | 2353 | 2 | US-09-797-862-33 | Sequence 33, Appl |
| 204 | 29 | 60.4 | 2353 | 2 | US-09-684-707-4 | Sequence 4, Appli |
| 205 | 29 | 60.4 | 2354 | 2 | US-09-268-347-47 | Sequence 47, Appl |
| 206 | 29 | 60.4 | 2411 | 2 | US-09-268-347-36 | Sequence 36, Appl |
| 207 | 29 | 60.4 | 5532 | 2 | US-09-914-286-6 | Sequence 6, Appli |
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| 209 | 28 | 58.3 | 38 | 1 | US-08-471-052A-87 | Sequence 87, Appl |
| 210 | 28 | 58.3 | 38 | 1 | US-08-189-331-87 | Sequence 87, Appl |
| 211 | 28 | 58.3 | 38 | 1 | US-08-471-939-87 | Sequence 87, Appl |
| 212 | 28 | 58.3 | 38 | 1 | US-08-471-800-87 | Sequence 87, Appl |
| 213 | 28 | 58.3 | 38 | 1 | US-08-471-068-87 | Sequence 87, Appl |
| 214 | 28 | 58.3 | 39 | 2 | US-08-630-915A-98 | Sequence 98, Appl |
| 215 | 28 | 58.3 | 39 | 2 | US-09-879-957-98 | Sequence 98, Appl |
| 216 | 28 | 58.3 | 45 | 2 | US-09-079-030-24 | Sequence 24, Appl |
| 217 | 28 | 58.3 | 48 | 2 | US-09-346-510B-24 | Sequence 24, Appl |
| 218 | 28 | 58.3 | 54 | 2 | US-09-346-510B-21 | Sequence 21, Appl |
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| 221 | 28 | 58.3 | 123 | 2 | US-09-270-767-39696 | Sequence 39696, A |
| 222 | 28 | 58.3 | 123 | 2 | US-09-270-767-54913 | Sequence 54913, A |
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| 224 | 28 | 58.3 | 129 | 2 | US-09-270-767-40390 | Sequence 40390, A |
| 225 | 28 | 58.3 | 129 | 2 | US-09-270-767-55606 | Sequence 55606, A |
| 226 | 28 | 58.3 | 138 | 2 | US-09-513-999C-7529 | Sequence 7529, Ap |
| 227 | 28 | 58.3 | 138 | 2 | US-09-471-276-1300 | Sequence 1300, Ap |
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| 234 | 28 | 58.3 | 198 | 2 | US-09-270-767-44459 | Sequence 44459, A |
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| 236 | 28 | 58.3 | 222 | 2 | US-09-640-211A-807 | Sequence 807, App |
| 237 | 28 | 58.3 | 230 | 2 | US-09-452-239-32 | Sequence 32, Appl |
| 238 | 28 | 58.3 | 231 | 2 | US-09-830-433A-71 | Sequence 71, Appl |
| 239 | 28 | 58.3 | 233 | 2 | US-09-270-767-33732 | Sequence 33732, A |
| 240 | 28 | 58.3 | 233 | 2 | US-09-270-767-48949 | Sequence 48949, A |
| 241 | 28 | 58.3 | 236 | 2 | US-09-248-796A-16359 | Sequence 16359, A |
| 242 | 28 | 58.3 | 238 | 2 | US-09-452-239-28 | Sequence 28, Appl |
| 243 | 28 | 58.3 | 248 | 2 | US-09-452-239-6 | Sequence 6, Appli |
| 244 | 28 | 58.3 | 248 | 2 | US-09-452-239-8 | Sequence 8, Appli |
| 245 | 28 | 58.3 | 252 | 2 | US-09-452-239-14 | Sequence 14, Appl |
| 246 | 28 | 58.3 | 253 | 2 | US-09-270-767-40298 | Sequence 40298, A |

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| 248 | 28 | 58.3 | 255 | 2 | US-09-452-239-2 | Sequence 2, Appli |
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| 250 | 28 | 58.3 | 263 | 2 | US-09-438-185A-583 | Sequence 583, App |
| 251 | 28 | 58.3 | 273 | 2 | US-09-710-279-728 | Sequence 728, App |
| 252 | 28 | 58.3 | 273 | 2 | US-09-902-540-16196 | Sequence 16196, A |
| 253 | 28 | 58.3 | 288 | 2 | US-09-583-110-2943 | Sequence 2943, Ap |
| 254 | 28 | 58.3 | 288 | 2 | US-09-769-787-18 | Sequence 18, Appl |
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| 265 | 28 | 58.3 | 341 | 2 | US-09-149-624-2 | Sequence 2, Appli |
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| 267 | 28 | 58.3 | 345 | 2 | US-09-538-092-314 | Sequence 314, App |
| 268 | 28 | 58.3 | 360 | 2 | US-09-438-185A-196 | Sequence 196, App |
| 269 | 28 | 58.3 | 363 | 2 | US-09-107-532A-6609 | Sequence 6609, Ap |
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| 271 | 28 | 58.3 | 366 | 2 | US-09-134-000C-4956 | Sequence 4956, Ap |
| 272 | 28 | 58.3 | 368 | 2 | US-09-134-001C-3909 | Sequence 3909, Ap |
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| 276 | 28 | 58.3 | 369 | 2 | US-09-270-767-61622 | Sequence 61622, A |
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| 285 | 28 | 58.3 | 408 | 2 | US-09-902-540-13641 | Sequence 13641, A |
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| 287 | 28 | 58.3 | 412 | 2 | US-09-902-540-15223 | Sequence 15223, A |
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| 290 | 28 | 58.3 | 420 | 2 | US-09-079-030-223 | Sequence 223, App |
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| 292 | 28 | 58.3 | 443 | 2 | US-08-705-771-13 | Sequence 13, Appl |
| 293 | 28 | 58.3 | 443 | 2 | US-09-417-540-13 | Sequence 13, Appl |
| 294 | 28 | 58.3 | 445 | 1 | US-08-935-450-4 | Sequence 4, Appli |
| 295 | 28 | 58.3 | 445 | 2 | US-09-338-123-4 | Sequence 4, Appli |
| 296 | 28 | 58.3 | 449 | 2 | US-09-202-329-8 | Sequence 8, Appli |
| 297 | 28 | 58.3 | 459 | 2 | US-09-107-532A-6188 | Sequence 6188, Ap |
| 298 | 28 | 58.3 | 466 | 2 | US-09-134-000C-6667 | Sequence 6667, Ap |
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| 300 | 28 | 58.3 | 468 | 2 | US-09-536-784-10 | Sequence 10, Appl |
| 301 | 28 | 58.3 | 468 | 2 | US-09-765-271-10 | Sequence 10, Appl |
| 302 | 28 | 58.3 | 468 | 2 | US-09-765-272A-10 | Sequence 10, Appl |
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| 304 | 28 | 58.3 | 481 | 2 | US-09-252-991A-27519 | Sequence 27519, A |
| 305 | 28 | 58.3 | 481 | 2 | US-09-297-703C-51 | Sequence 51, Appl |
| 306 | 28 | 58.3 | 492 | 2 | US-09-248-796A-21760 | Sequence 21760, A |
| 307 | 28 | 58.3 | 495 | 2 | US-08-980-241-5 | Sequence 5, Appli |
| 308 | 28 | 58.3 | 511 | 2 | US-09-489-039A-7682 | Sequence 7682, Ap |
| 309 | 28 | 58.3 | 514 | 2 | US-09-583-110-5001 | Sequence 5001, Ap |
| 310 | 28 | 58.3 | 525 | 2 | US-09-248-796A-19906 | Sequence 19906, A |
| 311 | 28 | 58.3 | 529 | 2 | US-09-248-796A-25874 | Sequence 25874, A |
| 312 | 28 | 58.3 | 539 | 2 | US-09-107-433-2719 | Sequence 2719, Ap |
| 313 | 28 | 58.3 | 549 | 2 | US-09-902-540-14387 | Sequence 14387, A |
| 314 | 28 | 58.3 | 559 | 2 | US-09-134-001C-3721 | Sequence 3721, Ap |
| 315 | 28 | 58.3 | 615 | 1 | US-08-484-105-6 | Sequence 6, Appli |
| 316 | 28 | 58.3 | 615 | 1 | US-08-484-106-6 | Sequence 6, Appli |
| 317 | 28 | 58.3 | 620 | 1 | US-08-484-105-4 | Sequence 4, Appli |
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| 319 | 28 | 58.3 | 650 | 2 | US-09-487-558B-430 | Sequence 430, App |
| 320 | 28 | 58.3 | 730 | 1 | US-08-121-713D-58 | Sequence 58, Appl |
| 321 | 28 | 58.3 | 730 | 1 | US-08-835-268-58 | Sequence 58, Appl |
| 322 | 28 | 58.3 | 730 | 1 | US-09-060-692-58 | Sequence 58, Appl |
| 323 | 28 | 58.3 | 730 | 2 | US-08-833-391-58 | Sequence 58, Appl |
| 324 | 28 | 58.3 | 730 | 2 | US-09-060-610-58 | Sequence 58, Appl |
| 325 | 28 | 58.3 | 730 | 4 | PCT-US94-10151A-58 | Sequence 58, Appl |
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| 328 | 28 | 58.3 | 785 | 2 | US-09-079-030-216 | Sequence 216, App |
| 329 | 28 | 58.3 | 811 | 2 | US-09-270-767-46072 | Sequence 46072, A |
| 330 | 28 | 58.3 | 822 | 2 | US-09-270-767-43578 | Sequence 43578, A |
| 331 | 28 | 58.3 | 827 | 2 | US-10-101-464A-915 | Sequence 915, App |
| 332 | 28 | 58.3 | 840 | 2 | US-09-079-030-214 | Sequence 214, App |
| 333 | 28 | 58.3 | 844 | 1 | US-07-646-537B-2 | Sequence 2, Appli |
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| 335 | 28 | 58.3 | 845 | 2 | US-09-538-092-932 | Sequence 932, App |
| 336 | 28 | 58.3 | 848 | 2 | US-09-297-703C-31 | Sequence 31, Appl |
| 337 | 28 | 58.3 | 848 | 2 | US-09-297-703C-53 | Sequence 53, Appl |
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| 339 | 28 | 58.3 | 860 | 2 | US-09-949-016-7553 | Sequence 7553, Ap |
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| 342 | 28 | 58.3 | 1014 | 2 | US-09-492-709A-266 | Sequence 266, App |
| 343 | 28 | 58.3 | 3170 | 1 | US-07-642-734C-5 | Sequence 5, Appli |
| 344 | 28 | 58.3 | 3170 | 2 | US-08-439-009A-5 | Sequence 5, Appli |
| 345 | 28 | 58.3 | 3972 | 2 | US-09-914-286-3 | Sequence 3, Appli |
| 346 | 28 | 58.3 | 4150 | 2 | US-09-428-517-2 | Sequence 2, Appli |
| 347 | 28 | 58.3 | 4536 | 2 | US-09-180-422B-27 | Sequence 27, Appl |
| 348 | 28 | 58.3 | 4536 | 2 | US-09-079-030-1 | Sequence 1, Appli |
| 349 | 28 | 58.3 | 4563 | 2 | US-09-108-006C-1 | Sequence 1, Appli |
| 350 | 28 | 58.3 | 4563 | 2 | US-09-538-092-842 | Sequence 842, App |
| 351 | 28 | 58.3 | 4928 | 2 | US-09-036-987A-5 | Sequence 5, Appli |
| 352 | 28 | 58.3 | 4928 | 2 | US-09-370-700-5 | Sequence 5, Appli |
| 353 | 28 | 58.3 | 4928 | 2 | US-09-603-207-5 | Sequence 5, Appli |
| 354 | 28 | 58.3 | 5588 | 2 | US-09-036-987A-6 | Sequence 6, Appli |
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| 356 | 28 | 58.3 | 5588 | 2 | US-09-603-207-6 | Sequence 6, Appli |
| 357 | 27.5 | 57.3 | 467 | 2 | US-09-270-767-46608 | Sequence 46608, A |
| 358 | 27.5 | 57.3 | 682 | 2 | US-10-104-047-2390 | Sequence 2390, Ap |
| 359 | 27 | 56.2 | 8 | 2 | US-08-159-339A-1177 | Sequence 1177, Ap |
| 360 | 27 | 56.2 | 10 | 2 | US-08-159-339A-87 | Sequence 87, Appl |
| 361 | 27 | 56.2 | 15 | 2 | US-08-159-339A-1174 | Sequence 1174, Ap |
| 362 | 27 | 56.2 | 23 | 2 | US-09-774-639-240 | Sequence 240, App |
| 363 | 27 | 56.2 | 69 | 2 | US-09-621-976-7170 | Sequence 7170, Ap |
| 364 | 27 | 56.2 | 70 | 2 | US-09-774-639-162 | Sequence 162, App |
| 365 | 27 | 56.2 | 88 | 2 | US-09-270-767-59651 | Sequence 59651, A |
| 366 | 27 | 56.2 | 92 | 2 | US-09-902-540-16454 | Sequence 16454, A |
| 367 | 27 | 56.2 | 99 | 2 | US-09-270-767-40241 | Sequence 40241, A |
| 368 | 27 | 56.2 | 99 | 2 | US-09-270-767-55457 | Sequence 55457, A |
| 369 | 27 | 56.2 | 108 | 2 | US-09-270-767-35185 | Sequence 35185, A |
| 370 | 27 | 56.2 | 108 | 2 | US-09-270-767-50402 | Sequence 50402, A |
| 371 | 27 | 56.2 | 117 | 2 | US-09-248-796A-26486 | Sequence 26486, A |
| 372 | 27 | 56.2 | 122 | 2 | US-09-583-110-4996 | Sequence 4996, Ap |
| 373 | 27 | 56.2 | 127 | 2 | US-09-328-352-4473 | Sequence 4473, Ap |
| 374 | 27 | 56.2 | 127 | 2 | US-09-646-693-4 | Sequence 4, Appli |
| 375 | 27 | 56.2 | 140 | 2 | US-09-205-258-1010 | Sequence 1010, Ap |
| 376 | 27 | 56.2 | 140 | 2 | US-10-004-860-1010 | Sequence 1010, Ap |
| 377 | 27 | 56.2 | 144 | 2 | US-09-134-000C-6439 | Sequence 6439, Ap |
| 378 | 27 | 56.2 | 145 | 2 | US-09-513-999C-5725 | Sequence 5725, Ap |
| 379 | 27 | 56.2 | 157 | 2 | US-09-861-451A-8 | Sequence 8, Appli |
| 380 | 27 | 56.2 | 162 | 2 | US-09-489-847-160 | Sequence 160, App |
| 381 | 27 | 56.2 | 162 | 2 | US-09-902-540-13354 | Sequence 13354, A |
| 382 | 27 | 56.2 | 163 | 2 | US-09-489-847-190 | Sequence 190, App |
| 383 | 27 | 56.2 | 166 | 2 | US-09-543-681A-7211 | Sequence 7211, Ap |
| 384 | 27 | 56.2 | 168 | 2 | US-09-949-016-11249 | Sequence 11249, A |
| 385 | 27 | 56.2 | 176 | 2 | US-09-270-767-44228 | Sequence 44228, A |
| 386 | 27 | 56.2 | 181 | 2 | US-09-489-847-337 | Sequence 337, App |
| 387 | 27 | 56.2 | 185 | 2 | US-09-122-443-16 | Sequence 16, Appl |
| 388 | 27 | 56.2 | 185 | 2 | US-09-558-089-16 | Sequence 16, Appl |
| 389 | 27 | 56.2 | 185 | 2 | US-09-558-087-16 | Sequence 16, Appl |
| 390 | 27 | 56.2 | 185 | 2 | US-09-558-474-16 | Sequence 16, Appl |
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| 394 | 27 | 56.2 | 188 | 1 | US-08-463-335-5 | Sequence 5, Appli |
| 395 | 27 | 56.2 | 188 | 1 | US-08-464-023A-5 | Sequence 5, Appli |
| 396 | 27 | 56.2 | 192 | 2 | US-09-949-016-7062 | Sequence 7062, Ap |
| 397 | 27 | 56.2 | 204 | 2 | US-09-230-637-25 | Sequence 25, Appl |
| 398 | 27 | 56.2 | 204 | 2 | US-09-230-371A-26 | Sequence 26, Appl |
| 399 | 27 | 56.2 | 207 | 2 | US-09-489-847-320 | Sequence 320, App |
| 400 | 27 | 56.2 | 207 | 2 | US-08-811-519-19 | Sequence 19, Appl |
| 401 | 27 | 56.2 | 213 | 2 | US-09-976-594-1097 | Sequence 1097, Ap |
| 402 | 27 | 56.2 | 216 | 2 | US-09-902-540-11643 | Sequence 11643, A |
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| 405 | 27 | 56.2 | 224 | 2 | US-09-489-039A-9212 | Sequence 9212, Ap |
| 406 | 27 | 56.2 | 226 | 2 | US-09-134-001C-5247 | Sequence 5247, Ap |
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| 409 | 27 | 56.2 | 233 | 2 | US-09-543-681A-7977 | Sequence 7977, Ap |
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| 411 | 27 | 56.2 | 239 | 2 | US-09-248-796A-22325 | Sequence 22325, A |
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| 418 | 27 | 56.2 | 257 | 2 | US-09-270-767-38299 | Sequence 38299, A |
| 419 | 27 | 56.2 | 257 | 2 | US-09-270-767-53516 | Sequence 53516, A |
| 420 | 27 | 56.2 | 261 | 2 | US-09-328-352-6263 | Sequence 6263, Ap |
| 421 | 27 | 56.2 | 274 | 2 | US-09-134-001C-2995 | Sequence 2995, Ap |
| 422 | 27 | 56.2 | 276 | 2 | US-09-902-540-10488 | Sequence 10488, A |
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| 424 | 27 | 56.2 | 277 | 2 | US-09-231-899-3 | Sequence 3, Appli |
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| 431 | 27 | 56.2 | 289 | 2 | US-09-270-767-39365 | Sequence 39365, A |
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| 685 | 26 | 54.2 | 251 | 2 | US-09-328-352-6917 | Sequence 6917, Ap |
| 686 | 26 | 54.2 | 258 | 2 | US-09-248-796A-14976 | Sequence 14976, A |
| 687 | 26 | 54.2 | 266 | 2 | US-09-489-039A-10055 | Sequence 10055, A |
| 688 | 26 | 54.2 | 266 | 2 | US-09-270-767-46656 | Sequence 46656, A |
| 689 | 26 | 54.2 | 266 | 2 | US-09-248-796A-18478 | Sequence 18478, A |
| 690 | 26 | 54.2 | 274 | 2 | US-09-185-501B-15 | Sequence 15, Appl |
| 691 | 26 | 54.2 | 279 | 2 | US-09-958-338-4 | Sequence 4, Appli |
| 692 | 26 | 54.2 | 280 | 1 | US-08-434-255-8 | Sequence 8, Appli |
| 693 | 26 | 54.2 | 280 | 1 | US-08-459-967-8 | Sequence 8, Appli |
| 694 | 26 | 54.2 | 280 | 1 | US-08-460-327-8 | Sequence 8, Appli |
| 695 | 26 | 54.2 | 280 | 1 | US-08-459-871-8 | Sequence 8, Appli |
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| 697 | 26 | 54.2 | 280 | 2 | US-09-104-623A-2 | Sequence 2, Appli |
| 698 | 26 | 54.2 | 280 | 2 | US-09-019-532-2 | Sequence 2, Appli |
| 699 | 26 | 54.2 | 280 | 2 | US-09-417-359A-2 | Sequence 2, Appli |
| 700 | 26 | 54.2 | 280 | 2 | US-09-705-185-2 | Sequence 2, Appli |
| 701 | 26 | 54.2 | 280 | 2 | US-09-338-746-2 | Sequence 2, Appli |
| 702 | 26 | 54.2 | 282 | 2 | US-09-540-236-2576 | Sequence 2576, Ap |
| 703 | 26 | 54.2 | 289 | 2 | US-09-071-035-400 | Sequence 400, App |
| 704 | 26 | 54.2 | 289 | 2 | US-10-206-576-400 | Sequence 400, App |
| 705 | 26 | 54.2 | 293 | 2 | US-09-248-796A-15940 | Sequence 15940, A |
| 706 | 26 | 54.2 | 298 | 2 | US-09-489-039A-11920 | Sequence 11920, A |
| 707 | 26 | 54.2 | 299 | 2 | US-09-107-532A-5499 | Sequence 5499, Ap |
| 708 | 26 | 54.2 | 301 | 2 | US-09-248-796A-18853 | Sequence 18853, A |
| 709 | 26 | 54.2 | 302 | 2 | US-09-107-532A-6738 | Sequence 6738, Ap |
| 710 | 26 | 54.2 | 313 | 2 | US-09-540-236-2302 | Sequence 2302, Ap |
| 711 | 26 | 54.2 | 314 | 2 | US-09-583-110-2807 | Sequence 2807, Ap |
| 712 | 26 | 54.2 | 314 | 2 | US-09-605-703B-2106 | Sequence 2106, Ap |
| 713 | 26 | 54.2 | 317 | 2 | US-09-583-110-5279 | Sequence 5279, Ap |
| 714 | 26 | 54.2 | 320 | 2 | US-09-252-991A-32024 | Sequence 32024, A |
| 715 | 26 | 54.2 | 321 | 2 | US-09-071-035-398 | Sequence 398, App |
| 716 | 26 | 54.2 | 321 | 2 | US-10-206-576-398 | Sequence 398, App |
| 717 | 26 | 54.2 | 323 | 2 | US-09-107-532A-5652 | Sequence 5652, Ap |
| 718 | 26 | 54.2 | 324 | 2 | US-09-107-532A-6145 | Sequence 6145, Ap |
| 719 | 26 | 54.2 | 324 | 2 | US-09-248-796A-20000 | Sequence 20000, A |
| 720 | 26 | 54.2 | 325 | 2 | US-09-270-767-35997 | Sequence 35997, A |
| 721 | 26 | 54.2 | 325 | 2 | US-09-270-767-51214 | Sequence 51214, A |
| 722 | 26 | 54.2 | 326 | 2 | US-09-721-383-4 | Sequence 4, Appli |
| 723 | 26 | 54.2 | 326 | 2 | US-09-721-137-4 | Sequence 4, Appli |
| 724 | 26 | 54.2 | 326 | 2 | US-09-721-251-4 | Sequence 4, Appli |
| 725 | 26 | 54.2 | 326 | 2 | US-10-114-764-4 | Sequence 4, Appli |
| 726 | 26 | 54.2 | 327 | 2 | US-09-489-039A-13790 | Sequence 13790, A |
| 727 | 26 | 54.2 | 327 | 2 | US-09-107-433-3331 | Sequence 3331, Ap |
| 728 | 26 | 54.2 | 329 | 2 | US-09-328-352-6272 | Sequence 6272, Ap |
| 729 | 26 | 54.2 | 332 | 2 | US-09-134-000C-5661 | Sequence 5661, Ap |
| 730 | 26 | 54.2 | 333 | 2 | US-09-463-702A-39 | Sequence 39, Appl |
| 731 | 26 | 54.2 | 333 | 2 | US-09-453-195A-2 | Sequence 2, Appli |
| 732 | 26 | 54.2 | 333 | 2 | US-09-562-737-1 | Sequence 1, Appli |
| 733 | 26 | 54.2 | 333 | 2 | US-09-562-737-7 | Sequence 7, Appli |
| 734 | 26 | 54.2 | 333 | 2 | US-09-562-737-8 | Sequence 8, Appli |
| 735 | 26 | 54.2 | 333 | 2 | US-09-562-737-9 | Sequence 9, Appli |
| 736 | 26 | 54.2 | 333 | 2 | US-09-699-135-39 | Sequence 39, Appl |
| 737 | 26 | 54.2 | 333 | 2 | US-09-917-974-2 | Sequence 2, Appli |
| 738 | 26 | 54.2 | 333 | 2 | US-09-664-958-1 | Sequence 1, Appli |
| 739 | 26 | 54.2 | 333 | 2 | US-09-664-958-14 | Sequence 14, Appl |
| 740 | 26 | 54.2 | 336 | 2 | US-09-248-796A-15889 | Sequence 15889, A |
| 741 | 26 | 54.2 | 336 | 2 | US-09-107-433-3257 | Sequence 3257, Ap |
| 742 | 26 | 54.2 | 338 | 2 | US-09-710-279-1756 | Sequence 1756, Ap |
| 743 | 26 | 54.2 | 340 | 2 | US-09-328-352-6704 | Sequence 6704, Ap |
| 744 | 26 | 54.2 | 344 | 2 | US-09-252-991A-25863 | Sequence 25863, A |
| 745 | 26 | 54.2 | 346 | 2 | US-09-198-452A-60 | Sequence 60, Appl |
| 746 | 26 | 54.2 | 353 | 2 | US-09-248-796A-15681 | Sequence 15681, A |
| 747 | 26 | 54.2 | 355 | 2 | US-09-000-040-3 | Sequence 3, Appli |
| 748 | 26 | 54.2 | 355 | 2 | US-09-000-064-2 | Sequence 2, Appli |
| 749 | 26 | 54.2 | 359 | 2 | US-09-722-139-4 | Sequence 4, Appli |
| 750 | 26 | 54.2 | 359 | 2 | US-09-721-832-4 | Sequence 4, Appli |
| 751 | 26 | 54.2 | 359 | 2 | US-09-721-689-4 | Sequence 4, Appli |
| 752 | 26 | 54.2 | 366 | 2 | US-09-108-020-46 | Sequence 46, Appl |
| 753 | 26 | 54.2 | 366 | 2 | US-09-538-092-52 | Sequence 52, Appl |
| 754 | 26 | 54.2 | 366 | 2 | US-09-685-296-46 | Sequence 46, Appl |
| 755 | 26 | 54.2 | 367 | 2 | US-09-489-039A-9718 | Sequence 9718, Ap |
| 756 | 26 | 54.2 | 368 | 2 | US-10-243-468-13 | Sequence 13, Appl |
| 757 | 26 | 54.2 | 369 | 2 | US-09-248-796A-14930 | Sequence 14930, A |
| 758 | 26 | 54.2 | 370 | 1 | US-08-434-255-6 | Sequence 6, Appli |
| 759 | 26 | 54.2 | 370 | 1 | US-08-459-967-6 | Sequence 6, Appli |
| 760 | 26 | 54.2 | 370 | 1 | US-08-460-327-6 | Sequence 6, Appli |
| 761 | 26 | 54.2 | 370 | 1 | US-08-459-871-6 | Sequence 6, Appli |
| 762 | 26 | 54.2 | 370 | 2 | US-09-252-991A-21152 | Sequence 21152, A |
| 763 | 26 | 54.2 | 370 | 2 | US-09-134-000C-6618 | Sequence 6618, Ap |
| 764 | 26 | 54.2 | 371 | 2 | US-09-327-984A-4 | Sequence 4, Appli |
| 765 | 26 | 54.2 | 372 | 1 | US-08-403-634-2 | Sequence 2, Appli |
| 766 | 26 | 54.2 | 372 | 1 | US-08-403-634-30 | Sequence 30, Appl |
| 767 | 26 | 54.2 | 372 | 2 | US-08-913-441B-2 | Sequence 2, Appli |
| 768 | 26 | 54.2 | 372 | 2 | US-08-913-441B-30 | Sequence 30, Appl |
| 769 | 26 | 54.2 | 372 | 2 | US-09-270-767-46648 | Sequence 46648, A |
| 770 | 26 | 54.2 | 372 | 2 | US-09-571-985C-2 | Sequence 2, Appli |
| 771 | 26 | 54.2 | 372 | 2 | US-09-571-985C-30 | Sequence 30, Appl |
| 772 | 26 | 54.2 | 372 | 2 | US-09-771-161A-203 | Sequence 203, App |
| 773 | 26 | 54.2 | 374 | 2 | US-09-134-001C-2939 | Sequence 2939, Ap |
| 774 | 26 | 54.2 | 378 | 2 | US-09-830-230A-286 | Sequence 286, App |
| 775 | 26 | 54.2 | 380 | 2 | US-09-328-352-4497 | Sequence 4497, Ap |
| 776 | 26 | 54.2 | 384 | 2 | US-09-328-352-4857 | Sequence 4857, Ap |
| 777 | 26 | 54.2 | 387 | 2 | US-09-248-796A-17038 | Sequence 17038, A |
| 778 | 26 | 54.2 | 393 | 1 | US-08-559-303B-76 | Sequence 76, Appl |
| 779 | 26 | 54.2 | 393 | 2 | US-09-175-828-76 | Sequence 76, Appl |
| 780 | 26 | 54.2 | 393 | 2 | US-09-949-016-11708 | Sequence 11708, A |
| 781 | 26 | 54.2 | 393 | 2 | US-09-753-143-76 | Sequence 76, Appl |
| 782 | 26 | 54.2 | 395 | 2 | US-09-134-000C-5441 | Sequence 5441, Ap |
| 783 | 26 | 54.2 | 396 | 2 | US-09-328-352-7847 | Sequence 7847, Ap |
| 784 | 26 | 54.2 | 397 | 1 | US-08-434-255-2 | Sequence 2, Appli |
| 785 | 26 | 54.2 | 397 | 1 | US-08-434-255-4 | Sequence 4, Appli |
| 786 | 26 | 54.2 | 397 | 1 | US-08-459-967-2 | Sequence 2, Appli |
| 787 | 26 | 54.2 | 397 | 1 | US-08-459-967-4 | Sequence 4, Appli |
| 788 | 26 | 54.2 | 397 | 1 | US-08-460-327-2 | Sequence 2, Appli |
| 789 | 26 | 54.2 | 397 | 1 | US-08-460-327-4 | Sequence 4, Appli |
| 790 | 26 | 54.2 | 397 | 1 | US-08-459-871-2 | Sequence 2, Appli |
| 791 | 26 | 54.2 | 397 | 1 | US-08-459-871-4 | Sequence 4, Appli |
| 792 | 26 | 54.2 | 397 | 2 | US-09-134-001C-3953 | Sequence 3953, Ap |
| 793 | 26 | 54.2 | 397 | 2 | US-09-779-334A-5 | Sequence 5, Appli |
| 794 | 26 | 54.2 | 398 | 2 | US-09-270-767-42084 | Sequence 42084, A |
| 795 | 26 | 54.2 | 401 | 2 | US-09-464-535-44 | Sequence 44, Appl |
| 796 | 26 | 54.2 | 405 | 2 | US-09-830-230A-285 | Sequence 285, App |
| 797 | 26 | 54.2 | 406 | 2 | US-09-134-001C-3202 | Sequence 3202, Ap |
| 798 | 26 | 54.2 | 408 | 2 | US-09-489-039A-12510 | Sequence 12510, A |
| 799 | 26 | 54.2 | 408 | 2 | US-09-303-518D-626 | Sequence 626, App |
| 800 | 26 | 54.2 | 408 | 2 | US-09-303-518D-628 | Sequence 628, App |
| 801 | 26 | 54.2 | 415 | 2 | US-09-806-536A-13 | Sequence 13, Appl |
| 802 | 26 | 54.2 | 418 | 2 | US-09-134-001C-4051 | Sequence 4051, Ap |
| 803 | 26 | 54.2 | 418 | 2 | US-09-543-681A-4930 | Sequence 4930, Ap |
| 804 | 26 | 54.2 | 430 | 2 | US-09-328-352-5173 | Sequence 5173, Ap |
| 805 | 26 | 54.2 | 430 | 2 | US-09-866-379-10 | Sequence 10, Appl |
| 806 | 26 | 54.2 | 433 | 2 | US-09-792-024-78 | Sequence 78, Appl |
| 807 | 26 | 54.2 | 437 | 2 | US-09-543-681A-5228 | Sequence 5228, Ap |
| 808 | 26 | 54.2 | 441 | 2 | US-09-949-016-10792 | Sequence 10792, A |
| 809 | 26 | 54.2 | 444 | 1 | US-08-351-981-2 | Sequence 2, Appli |
| 810 | 26 | 54.2 | 444 | 1 | US-08-351-981-8 | Sequence 8, Appli |
| 811 | 26 | 54.2 | 444 | 1 | US-08-485-938A-33 | Sequence 33, Appl |
| 812 | 26 | 54.2 | 444 | 2 | US-09-949-016-10163 | Sequence 10163, A |
| 813 | 26 | 54.2 | 447 | 1 | US-08-844-010-2 | Sequence 2, Appli |
| 814 | 26 | 54.2 | 447 | 2 | US-09-012-873-2 | Sequence 2, Appli |
| 815 | 26 | 54.2 | 447 | 2 | US-09-583-110-2928 | Sequence 2928, Ap |
| 816 | 26 | 54.2 | 448 | 2 | US-09-107-433-3371 | Sequence 3371, Ap |
| 817 | 26 | 54.2 | 450 | 2 | US-09-270-767-42943 | Sequence 42943, A |
| 818 | 26 | 54.2 | 455 | 2 | US-09-270-767-35242 | Sequence 35242, A |
| 819 | 26 | 54.2 | 455 | 2 | US-09-270-767-50459 | Sequence 50459, A |
| 820 | 26 | 54.2 | 458 | 2 | US-09-489-039A-8987 | Sequence 8987, Ap |
| 821 | 26 | 54.2 | 461 | 2 | US-09-107-433-4028 | Sequence 4028, Ap |
| 822 | 26 | 54.2 | 462 | 2 | US-09-252-991A-27378 | Sequence 27378, A |
| 823 | 26 | 54.2 | 463 | 2 | US-09-949-016-10540 | Sequence 10540, A |
| 824 | 26 | 54.2 | 467 | 2 | US-09-902-540-11250 | Sequence 11250, A |
| 825 | 26 | 54.2 | 467 | 2 | US-09-902-540-14567 | Sequence 14567, A |
| 826 | 26 | 54.2 | 470 | 2 | US-10-142-835-26 | Sequence 26, Appl |
| 827 | 26 | 54.2 | 473 | 2 | US-09-252-991A-24399 | Sequence 24399, A |
| 828 | 26 | 54.2 | 476 | 2 | US-10-142-835-28 | Sequence 28, Appl |
| 829 | 26 | 54.2 | 483 | 2 | US-09-543-681A-6157 | Sequence 6157, Ap |
| 830 | 26 | 54.2 | 485 | 2 | US-09-438-185A-43 | Sequence 43, Appl |

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| 831 | 26 | 54.2 | 490 | 2 | US-09-252-991A-30355 | Sequence 30355, A |
| 832 | 26 | 54.2 | 490 | 2 | US-09-489-039A-7450 | Sequence 7450, Ap |
| 833 | 26 | 54.2 | 491 | 2 | US-09-489-039A-12550 | Sequence 12550, A |
| 834 | 26 | 54.2 | 492 | 2 | US-10-104-047-1974 | Sequence 1974, Ap |
| 835 | 26 | 54.2 | 492 | 2 | US-10-104-047-3223 | Sequence 3223, Ap |
| 836 | 26 | 54.2 | 493 | 2 | US-09-949-016-10836 | Sequence 10836, A |
| 837 | 26 | 54.2 | 505 | 2 | US-09-538-092-528 | Sequence 528, App |
| 838 | 26 | 54.2 | 507 | 1 | US-08-363-475-19 | Sequence 19, Appl |
| 839 | 26 | 54.2 | 507 | 2 | US-09-424-978B-34 | Sequence 34, Appl |
| 840 | 26 | 54.2 | 508 | 2 | US-09-949-016-6316 | Sequence 6316, Ap |
| 841 | 26 | 54.2 | 518 | 2 | US-09-949-016-11589 | Sequence 11589, A |
| 842 | 26 | 54.2 | 520 | 2 | US-09-252-991A-17942 | Sequence 17942, A |
| 843 | 26 | 54.2 | 526 | 2 | US-08-673-814-3 | Sequence 3, Appli |
| 844 | 26 | 54.2 | 526 | 2 | US-09-115-824-3 | Sequence 3, Appli |
| 845 | 26 | 54.2 | 527 | 2 | US-09-540-236-2518 | Sequence 2518, Ap |
| 846 | 26 | 54.2 | 532 | 1 | US-08-363-475-22 | Sequence 22, Appl |
| 847 | 26 | 54.2 | 543 | 2 | US-09-248-796A-22504 | Sequence 22504, A |
| 848 | 26 | 54.2 | 545 | 2 | US-09-902-540-10189 | Sequence 10189, A |
| 849 | 26 | 54.2 | 550 | 1 | US-08-484-493-2 | Sequence 2, Appli |
| 850 | 26 | 54.2 | 550 | 1 | US-08-484-494-2 | Sequence 2, Appli |
| 851 | 26 | 54.2 | 550 | 1 | US-08-345-212-2 | Sequence 2, Appli |
| 852 | 26 | 54.2 | 550 | 2 | US-09-249-003-2 | Sequence 2, Appli |
| 853 | 26 | 54.2 | 550 | 2 | US-09-685-844-2 | Sequence 2, Appli |
| 854 | 26 | 54.2 | 554 | 2 | US-09-489-039A-7692 | Sequence 7692, Ap |
| 855 | 26 | 54.2 | 557 | 2 | US-09-949-016-8715 | Sequence 8715, Ap |
| 856 | 26 | 54.2 | 557 | 2 | US-09-949-016-8716 | Sequence 8716, Ap |
| 857 | 26 | 54.2 | 560 | 2 | US-09-949-016-6458 | Sequence 6458, Ap |
| 858 | 26 | 54.2 | 560 | 2 | US-09-912-559-3 | Sequence 3, Appli |
| 859 | 26 | 54.2 | 560 | 2 | US-09-912-559-4 | Sequence 4, Appli |
| 860 | 26 | 54.2 | 563 | 2 | US-09-725-735A-14 | Sequence 14, Appl |
| 861 | 26 | 54.2 | 588 | 2 | US-09-509-902A-16 | Sequence 16, Appl |
| 862 | 26 | 54.2 | 588 | 2 | US-09-949-016-8674 | Sequence 8674, Ap |
| 863 | 26 | 54.2 | 588 | 2 | US-10-024-828-16 | Sequence 16, Appl |
| 864 | 26 | 54.2 | 593 | 2 | US-09-248-796A-19340 | Sequence 19340, A |
| 865 | 26 | 54.2 | 600 | 2 | US-09-327-984A-6 | Sequence 6, Appli |
| 866 | 26 | 54.2 | 608 | 2 | US-09-489-039A-12785 | Sequence 12785, A |
| 867 | 26 | 54.2 | 608 | 2 | US-09-603-208A-36 | Sequence 36, Appl |
| 868 | 26 | 54.2 | 610 | 2 | US-09-438-185A-47 | Sequence 47, Appl |
| 869 | 26 | 54.2 | 624 | 2 | US-09-270-767-41894 | Sequence 41894, A |
| 870 | 26 | 54.2 | 628 | 1 | US-07-952-853-22 | Sequence 22, Appl |
| 871 | 26 | 54.2 | 628 | 1 | US-08-914-848-22 | Sequence 22, Appl |
| 872 | 26 | 54.2 | 634 | 2 | US-09-725-735A-17 | Sequence 17, Appl |
| 873 | 26 | 54.2 | 650 | 2 | US-09-443-795-1 | Sequence 1, Appli |
| 874 | 26 | 54.2 | 650 | 2 | US-10-363-937-5 | Sequence 5, Appli |
| 875 | 26 | 54.2 | 653 | 2 | US-09-118-276-4 | Sequence 4, Appli |
| 876 | 26 | 54.2 | 655 | 2 | US-09-252-991A-28411 | Sequence 28411, A |
| 877 | 26 | 54.2 | 672 | 2 | US-09-489-039A-13685 | Sequence 13685, A |
| 878 | 26 | 54.2 | 678 | 2 | US-09-595-684B-25 | Sequence 25, Appl |
| 879 | 26 | 54.2 | 679 | 2 | US-09-252-991A-28325 | Sequence 28325, A |
| 880 | 26 | 54.2 | 688 | 2 | US-09-113-750A-3 | Sequence 3, Appli |
| 881 | 26 | 54.2 | 694 | 2 | US-09-248-796A-20618 | Sequence 20618, A |
| 882 | 26 | 54.2 | 704 | 2 | US-09-252-991A-20365 | Sequence 20365, A |
| 883 | 26 | 54.2 | 706 | 2 | US-09-949-016-11444 | Sequence 11444, A |
| 884 | 26 | 54.2 | 708 | 2 | US-09-252-991A-20021 | Sequence 20021, A |
| 885 | 26 | 54.2 | 721 | 2 | US-09-248-796A-17831 | Sequence 17831, A |
| 886 | 26 | 54.2 | 728 | 1 | US-08-209-521-26 | Sequence 26, Appl |
| 887 | 26 | 54.2 | 728 | 2 | US-09-265-503B-136 | Sequence 136, App |
| 888 | 26 | 54.2 | 730 | 2 | US-09-248-796A-15712 | Sequence 15712, A |
| 889 | 26 | 54.2 | 739 | 2 | US-09-543-681A-6437 | Sequence 6437, Ap |
| 890 | 26 | 54.2 | 747 | 2 | US-09-328-352-7649 | Sequence 7649, Ap |
| 891 | 26 | 54.2 | 750 | 2 | US-09-583-110-4010 | Sequence 4010, Ap |
| 892 | 26 | 54.2 | 752 | 2 | US-08-709-784-3 | Sequence 3, Appli |
| 893 | 26 | 54.2 | 756 | 1 | US-08-209-521-9 | Sequence 9, Appli |
| 894 | 26 | 54.2 | 756 | 1 | US-08-209-521-12 | Sequence 12, Appl |
| 895 | 26 | 54.2 | 756 | 1 | US-08-209-521-27 | Sequence 27, Appl |
| 896 | 26 | 54.2 | 756 | 2 | US-08-961-810-5 | Sequence 5, Appli |
| 897 | 26 | 54.2 | 756 | 2 | US-08-352-902D-5 | Sequence 5, Appli |
| 898 | 26 | 54.2 | 756 | 2 | US-08-294-312B-2 | Sequence 2, Appli |
| 899 | 26 | 54.2 | 756 | 2 | US-08-468-024B-2 | Sequence 2, Appli |
| 900 | 26 | 54.2 | 756 | 2 | US-08-187-757D-2 | Sequence 2, Appli |
| 901 | 26 | 54.2 | 756 | 2 | US-09-265-503B-5 | Sequence 5, Appli |
| 902 | 26 | 54.2 | 756 | 2 | US-09-708-200-15 | Sequence 15, Appl |
| 903 | 26 | 54.2 | 756 | 2 | US-08-465-679-2 | Sequence 2, Appli |
| 904 | 26 | 54.2 | 756 | 2 | US-08-210-143C-2 | Sequence 2, Appli |
| 905 | 26 | 54.2 | 756 | 2 | US-09-788-657-20 | Sequence 20, Appl |
| 906 | 26 | 54.2 | 756 | 2 | US-09-712-691-13 | Sequence 13, Appl |
| 907 | 26 | 54.2 | 756 | 2 | US-09-707-468C-13 | Sequence 13, Appl |
| 908 | 26 | 54.2 | 756 | 2 | US-10-641-068-20 | Sequence 20, Appl |
| 909 | 26 | 54.2 | 764 | 2 | US-09-585-858-15 | Sequence 15, Appl |
| 910 | 26 | 54.2 | 764 | 2 | US-10-270-878-15 | Sequence 15, Appl |
| 911 | 26 | 54.2 | 787 | 2 | US-09-721-383-2 | Sequence 2, Appli |
| 912 | 26 | 54.2 | 787 | 2 | US-09-721-137-2 | Sequence 2, Appli |
| 913 | 26 | 54.2 | 787 | 2 | US-09-721-251-2 | Sequence 2, Appli |
| 914 | 26 | 54.2 | 787 | 2 | US-10-114-764-2 | Sequence 2, Appli |
| 915 | 26 | 54.2 | 796 | 1 | US-08-817-900-2 | Sequence 2, Appli |
| 916 | 26 | 54.2 | 796 | 2 | US-09-236-645-2 | Sequence 2, Appli |
| 917 | 26 | 54.2 | 824 | 2 | US-09-252-991A-32329 | Sequence 32329, A |
| 918 | 26 | 54.2 | 828 | 2 | US-09-327-984A-2 | Sequence 2, Appli |
| 919 | 26 | 54.2 | 858 | 2 | US-09-949-016-6702 | Sequence 6702, Ap |
| 920 | 26 | 54.2 | 882 | 2 | US-10-104-047-3543 | Sequence 3543, Ap |
| 921 | 26 | 54.2 | 884 | 2 | US-08-851-843A-55 | Sequence 55, Appl |
| 922 | 26 | 54.2 | 884 | 2 | US-08-974-549A-222 | Sequence 222, App |
| 923 | 26 | 54.2 | 884 | 2 | US-08-854-050-55 | Sequence 55, Appl |
| 924 | 26 | 54.2 | 884 | 2 | US-09-430-323-55 | Sequence 55, Appl |
| 925 | 26 | 54.2 | 884 | 2 | US-09-402-181B-222 | Sequence 222, App |
| 926 | 26 | 54.2 | 884 | 2 | US-09-721-456-222 | Sequence 222, App |
| 927 | 26 | 54.2 | 884 | 2 | US-09-766-253-55 | Sequence 55, Appl |
| 928 | 26 | 54.2 | 884 | 2 | US-09-502-498C-5 | Sequence 5, Appli |
| 929 | 26 | 54.2 | 884 | 2 | US-09-502-424C-5 | Sequence 5, Appli |
| 930 | 26 | 54.2 | 884 | 2 | US-10-054-295-55 | Sequence 55, Appl |
| 931 | 26 | 54.2 | 884 | 2 | US-09-438-486A-55 | Sequence 55, Appl |
| 932 | 26 | 54.2 | 885 | 2 | US-09-538-092-1319 | Sequence 1319, Ap |
| 933 | 26 | 54.2 | 890 | 2 | US-09-342-648-10 | Sequence 10, Appl |
| 934 | 26 | 54.2 | 892 | 2 | US-09-328-352-7688 | Sequence 7688, Ap |
| 935 | 26 | 54.2 | 897 | 2 | US-09-902-540-11551 | Sequence 11551, A |
| 936 | 26 | 54.2 | 937 | 1 | US-08-253-155A-31 | Sequence 31, Appl |
| 937 | 26 | 54.2 | 937 | 2 | US-09-538-092-1092 | Sequence 1092, Ap |
| 938 | 26 | 54.2 | 937 | 2 | US-09-949-002-374 | Sequence 374, App |
| 939 | 26 | 54.2 | 942 | 2 | US-10-101-464A-911 | Sequence 911, App |
| 940 | 26 | 54.2 | 943 | 2 | US-09-540-236-3458 | Sequence 3458, Ap |
| 941 | 26 | 54.2 | 959 | 2 | US-09-538-092-1091 | Sequence 1091, Ap |
| 942 | 26 | 54.2 | 962 | 2 | US-09-442-100-6 | Sequence 6, Appli |
| 943 | 26 | 54.2 | 962 | 2 | US-08-939-106-6 | Sequence 6, Appli |
| 944 | 26 | 54.2 | 962 | 2 | US-09-442-102-6 | Sequence 6, Appli |
| 945 | 26 | 54.2 | 980 | 2 | US-09-442-100-8 | Sequence 8, Appli |
| 946 | 26 | 54.2 | 980 | 2 | US-08-939-106-8 | Sequence 8, Appli |
| 947 | 26 | 54.2 | 980 | 2 | US-09-442-102-8 | Sequence 8, Appli |
| 948 | 26 | 54.2 | 1009 | 1 | US-08-680-326-31 | Sequence 31, Appl |
| 949 | 26 | 54.2 | 1045 | 1 | US-08-452-083-2 | Sequence 2, Appli |
| 950 | 26 | 54.2 | 1088 | 2 | US-09-233-857-4 | Sequence 4, Appli |
| 951 | 26 | 54.2 | 1116 | 2 | US-09-583-110-5094 | Sequence 5094, Ap |
| 952 | 26 | 54.2 | 1120 | 2 | US-09-147-404-1 | Sequence 1, Appli |
| 953 | 26 | 54.2 | 1120 | 2 | US-09-107-433-3602 | Sequence 3602, Ap |
| 954 | 26 | 54.2 | 1130 | 2 | US-09-442-100-4 | Sequence 4, Appli |
| 955 | 26 | 54.2 | 1130 | 2 | US-09-233-857-3 | Sequence 3, Appli |
| 956 | 26 | 54.2 | 1130 | 2 | US-08-939-106-4 | Sequence 4, Appli |
| 957 | 26 | 54.2 | 1130 | 2 | US-09-442-102-4 | Sequence 4, Appli |
| 958 | 26 | 54.2 | 1130 | 2 | US-09-949-016-6536 | Sequence 6536, Ap |
| 959 | 26 | 54.2 | 1251 | 2 | US-09-698-286A-9 | Sequence 9, Appli |
| 960 | 26 | 54.2 | 1255 | 2 | US-09-949-016-10348 | Sequence 10348, A |
| 961 | 26 | 54.2 | 1260 | 2 | US-09-328-352-6746 | Sequence 6746, Ap |
| 962 | 26 | 54.2 | 1284 | 2 | US-10-296-144-5 | Sequence 5, Appli |
| 963 | 26 | 54.2 | 1375 | 2 | US-09-722-139-2 | Sequence 2, Appli |
| 964 | 26 | 54.2 | 1375 | 2 | US-09-721-832-2 | Sequence 2, Appli |
| 965 | 26 | 54.2 | 1375 | 2 | US-09-721-689-2 | Sequence 2, Appli |
| 966 | 26 | 54.2 | 1382 | 2 | US-09-538-092-590 | Sequence 590, App |
| 967 | 26 | 54.2 | 1541 | 2 | US-08-296-791-3 | Sequence 3, Appli |
| 968 | 26 | 54.2 | 1541 | 2 | US-09-839-996-3 | Sequence 3, Appli |
| 969 | 26 | 54.2 | 1541 | 2 | US-10-080-505-3 | Sequence 3, Appli |
| 970 | 26 | 54.2 | 1541 | 2 | US-10-645-655-3 | Sequence 3, Appli |
| 971 | 26 | 54.2 | 1541 | 4 | PCT-US95-10661A-3 | Sequence 3, Appli |
| 972 | 26 | 54.2 | 1545 | 2 | US-08-296-791-4 | Sequence 4, Appli |
| 973 | 26 | 54.2 | 1545 | 2 | US-09-839-996-4 | Sequence 4, Appli |
| 974 | 26 | 54.2 | 1545 | 2 | US-10-080-505-4 | Sequence 4, Appli |
| 975 | 26 | 54.2 | 1545 | 2 | US-10-645-655-4 | Sequence 4, Appli |
| 976 | 26 | 54.2 | 1545 | 4 | PCT-US95-10661A-4 | Sequence 4, Appli |

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| 977 | 26 | 54.2 | 1676 | 2 | US-08-487-283A-2 | Sequence 2, Appli |
| 978 | 26 | 54.2 | 1680 | 2 | US-09-949-016-9777 | Sequence 9777, Ap |
| 979 | 26 | 54.2 | 1702 | 2 | US-08-296-791-5 | Sequence 5, Appli |
| 980 | 26 | 54.2 | 1702 | 2 | US-09-839-996-5 | Sequence 5, Appli |
| 981 | 26 | 54.2 | 1702 | 2 | US-10-080-505-5 | Sequence 5, Appli |
| 982 | 26 | 54.2 | 1702 | 2 | US-10-645-655-5 | Sequence 5, Appli |
| 983 | 26 | 54.2 | 1702 | 4 | PCT-US95-10661A-5 | Sequence 5, Appli |
| 984 | 26 | 54.2 | 1886 | 2 | US-08-938-105-3 | Sequence 3, Appli |
| 985 | 26 | 54.2 | 1912 | 1 | US-08-409-995-4 | Sequence 4, Appli |
| 986 | 26 | 54.2 | 1912 | 2 | US-08-685-467-4 | Sequence 4, Appli |
| 987 | 26 | 54.2 | 1919 | 2 | US-10-152-886-13 | Sequence 13, Appl |
| 988 | 26 | 54.2 | 1935 | 2 | US-09-538-092-916 | Sequence 916, App |
| 989 | 26 | 54.2 | 1937 | 2 | US-09-538-092-918 | Sequence 918, App |
| 990 | 26 | 54.2 | 1939 | 2 | US-09-310-187A-1 | Sequence 1, Appli |
| 991 | 26 | 54.2 | 1939 | 2 | US-09-538-092-915 | Sequence 915, App |
| 992 | 26 | 54.2 | 1939 | 2 | US-09-538-092-917 | Sequence 917, App |
| 993 | 26 | 54.2 | 1939 | 2 | US-09-949-016-11104 | Sequence 11104, A |
| 994 | 26 | 54.2 | 1944 | 2 | US-09-949-016-10929 | Sequence 10929, A |
| 995 | 25.5 | 53.1 | 271 | 2 | US-09-903-456-53 | Sequence 53, Appl |
| 996 | 25.5 | 53.1 | 271 | 2 | US-09-624-670-52 | Sequence 52, Appl |
| 997 | 25.5 | 53.1 | 272 | 2 | US-09-145-828A-18 | Sequence 18, Appl |
| 998 | 25.5 | 53.1 | 272 | 2 | US-09-903-456-24 | Sequence 24, Appl |
| 999 | 25.5 | 53.1 | 272 | 2 | US-09-624-670-23 | Sequence 23, Appl |
| 1000 | 25.5 | 53.1 | 497 | 2 | US-08-898-977-2 | Sequence 2, Appli |

ALIGNMENTS

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RESULT 1
US-08-159-339A-246
; Sequence 246, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  246:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-246

  Query Match             100.0%;  Score 48;  DB 2;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 4.6e+05;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
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Db          1 VYDFAFRDL 9


RESULT 2
US-08-159-339A-564
; Sequence 564, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  564:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-564

  Query Match             100.0%;  Score 48;  DB 2;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 4.6e+05;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
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Qy          1 VYDFAFRDL 9
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Db          1 VYDFAFRDL 9


RESULT 3
US-07-909-122-4
; Sequence 4, Application US/07909122
; Patent No. 5415995
;  GENERAL INFORMATION:
;    APPLICANT:  SCHOOLNIK, GARY K.
;    APPLICANT:  PALEFSKY, JOEL M.
;    TITLE OF INVENTION:  DIAGNOSTIC PEPTIDES OF HUMAN PAPILLOMA
;    TITLE OF INVENTION:  VIRUS
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MORRISON & FOERSTER
;      STREET:  755 Page Mill Road
;      CITY:  Palo Alto
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94304-1018
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/909,122
;      FILING DATE:  19920706
;      CLASSIFICATION:  530
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  BENZ, WILLIAM H.
;      REGISTRATION NUMBER:  25,952
;      REFERENCE/DOCKET NUMBER:  28600-20105.01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 813-5600
;      TELEFAX:  (415) 494-0792
;      TELEX:  706141
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  14 amino acids
;      TYPE:  AMINO ACID
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
US-07-909-122-4

  Query Match             100.0%;  Score 48;  DB 1;  Length 14;
  Best Local Similarity   100.0%;  Pred. No. 0.0064;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
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Db          5 VYDFAFRDL 13


RESULT 4
US-09-980-523A-6
; Sequence 6, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
;   LENGTH: 22
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-6

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  Best Local Similarity   100.0%;  Pred. No. 0.01;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
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Db          4 VYDFAFRDL 12


RESULT 5
US-09-601-729-276
; Sequence 276, Application US/09601729
; Patent No. 6683052
; GENERAL INFORMATION:
;  APPLICANT: THIAM, KADER
;  APPLICANT:  AURIAULT, CLAUDE
;  APPLICANT:  GRAS-MASSE, HELENE
;  APPLICANT:  LOING, ESTELLE
;  APPLICANT:  VERWAERDE, CLAUDIE
;  APPLICANT:  GUILLET, JEAN GERARD
;  TITLE OF INVENTION: LIPOPEPTIDES CONTAINING AN INTERFERON FRAGMENT AND USES
;  TITLE OF INVENTION:  THEREOF IN PHARMACEUTICAL COMPOSITIONS
;  FILE REFERENCE: USB-97-AU-IN
;  CURRENT APPLICATION NUMBER: US/09/601,729
;  CURRENT FILING DATE:  2000-11-20
;  PRIOR APPLICATION NUMBER: PCT/FR99/00259
;  PRIOR FILING DATE: 1999-02-05
;  PRIOR APPLICATION NUMBER: 98 01439
;  PRIOR FILING DATE: 1998-02-06
;  NUMBER OF SEQ ID NOS: 281
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 276
;   LENGTH: 23
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;   OTHER INFORMATION: peptide
US-09-601-729-276

  Query Match             100.0%;  Score 48;  DB 2;  Length 23;
  Best Local Similarity   100.0%;  Pred. No. 0.011;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db          5 VYDFAFRDL 13


RESULT 6
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
;  APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
;  TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 FC
;  TITLE OF INVENTION:  TRANSCRIPTIONAL REGULATION
;  FILE REFERENCE: N73477C GCW
;  CURRENT APPLICATION NUMBER: US/09/701,080C
;  CURRENT FILING DATE:  2001-02-27
;  PRIOR APPLICATION NUMBER: GB 9811303.8
;  PRIOR FILING DATE: 1998-05-26
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;  PRIOR APPLICATION NUMBER: GB 9900157.0
;  PRIOR FILING DATE: 1999-01-05
;  NUMBER OF SEQ ID NOS: 36
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
;    LENGTH: 151
;    TYPE: PRT
;    ORGANISM: Human papillomavirus
US-09-701-080C-18

  Query Match             100.0%;  Score 48;  DB 2;  Length 151;
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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
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Db         42 VYDFAFRDL 50


RESULT 7
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
;    LENGTH: 158
;    TYPE: PRT
;    ORGANISM: Human Papillomavirus
US-09-980-523A-2

  Query Match             100.0%;  Score 48;  DB 2;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.085;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db         49 VYDFAFRDL 57


RESULT 8
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-3

  Query Match             100.0%;  Score 48;  DB 1;  Length 162;
  Best Local Similarity   100.0%;  Pred. No. 0.087;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
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Db         49 VYDFAFRDL 57


RESULT 9
US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  4:
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;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-4

  Query Match             100.0%;  Score 48;  DB 1;  Length 162;
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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
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Db         49 VYDFAFRDL 57


RESULT 10
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

  Query Match             100.0%;  Score 48;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.093;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db        118 VYDFAFRDL 126


RESULT 11
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-14

  Query Match             100.0%;  Score 48;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.093;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db        118 VYDFAFRDL 126


RESULT 12
US-08-117-083-10
; Sequence 10, Application US/08117083
; Patent No. 5719054
;  GENERAL INFORMATION:
;    APPLICANT:  Boursnell, Michael E.
;    APPLICANT:  Inglis, Stephen C.
;    APPLICANT:  Munro, Alan J.
;    TITLE OF INVENTION:  Recombinant Virus Vectors Encoding Human
;    TITLE OF INVENTION:  Papilloma Virus Proteins
;    NUMBER OF SEQUENCES:  70
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Walter H. Dreger
;      STREET:  4 Embarcadero Center, Suite 3400
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/117,083
;      FILING DATE:  10-SEP-1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Dreger, Walter H.
;      REGISTRATION NUMBER:  24,190
;      REFERENCE/DOCKET NUMBER:  A-58783
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-781-1989
;      TELEFAX:  415-398-3249
;      TELEX:  910 277299
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  182 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    FEATURE:
;      NAME/KEY:  Protein
;      LOCATION:  1..182
;      OTHER INFORMATION:  /note= "Xaa refers to stop codon in
;      OTHER INFORMATION:  the open reading frame."
US-08-117-083-10

  Query Match             100.0%;  Score 48;  DB 1;  Length 182;
  Best Local Similarity   100.0%;  Pred. No. 0.099;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
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Db         50 VYDFAFRDL 58
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RESULT 13
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
;  APPLICANT:  KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION:  ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE:  017753-122
;  CURRENT APPLICATION NUMBER: US/09/462,993
;  CURRENT FILING DATE:  2000-04-17
;  PRIOR APPLICATION NUMBER:  PCT/FR98/01576
;  PRIOR FILING DATE:  1998-07-17
;  PRIOR APPLICATION NUMBER:  FR 97/09152
;  PRIOR FILING DATE:  1997-07-18
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

  Query Match             100.0%;  Score 48;  DB 2;  Length 243;
  Best Local Similarity   100.0%;  Pred. No. 0.13;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db         77 VYDFAFRDL 85


RESULT 14
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

  Query Match             100.0%;  Score 48;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.15;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db         49 VYDFAFRDL 57


RESULT 15
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-10

  Query Match             100.0%;  Score 48;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.15;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db         49 VYDFAFRDL 57


RESULT 16
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 48;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.15;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db         49 VYDFAFRDL 57


RESULT 17
US-09-485-885-4
```

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; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-4

  Query Match             100.0%;  Score 48;  DB 2;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 0.15;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db        155 VYDFAFRDL 163


RESULT 18
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-10

  Query Match             100.0%;  Score 48;  DB 2;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.16;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db        174 VYDFAFRDL 182


RESULT 19
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-6

  Query Match             100.0%;  Score 48;  DB 2;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 0.21;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db        155 VYDFAFRDL 163


RESULT 20
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-14

  Query Match             100.0%;  Score 48;  DB 2;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 0.22;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db        174 VYDFAFRDL 182


RESULT 21
US-09-328-352-5375
; Sequence 5375, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton et al.
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
;  TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
```

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;  FILE REFERENCE: GTC99-03PA
;  CURRENT APPLICATION NUMBER: US/09/328,352
;  CURRENT FILING DATE: 1999-06-04
;  NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 5375
;   LENGTH: 342
;   TYPE: PRT
;   ORGANISM: Acinetobacter baumannii
US-09-328-352-5375

  Query Match             89.6%;  Score 43;  DB 2;  Length 342;
  Best Local Similarity   77.8%;  Pred. No. 1.7;
  Matches    7;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              ||||:|||:
Db         36 VYDFSFRDM 44


RESULT 22
US-08-934-915-161
; Sequence 161, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  161:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-161

  Query Match             79.2%;  Score 38;  DB 1;  Length 20;
  Best Local Similarity   77.8%;  Pred. No. 0.76;
  Matches    7;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              ||:||||:|
Db          3 VYNFAFRNL 11


RESULT 23
US-08-247-904B-10
; Sequence 10, Application US/08247904B
; Patent No. 5981699
;  GENERAL INFORMATION:
;    APPLICANT:  Rolfe, Mark
;    APPLICANT:  Eckstein, Jens W.
;    APPLICANT:  Draetta, Giulio
;    TITLE OF INVENTION:  Human Ubiquitin Conjugating Enzyme
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Foley, Hoag & Eliot
;      STREET:  One Post Office Square
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  ASCII(text)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/247,904B
;      FILING DATE:  23-MAY-1994
;      CLASSIFICATION:  530
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Vincent, Matthew P.
;      REGISTRATION NUMBER:  36,709
;      REFERENCE/DOCKET NUMBER:  MIV-029.01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 832-1000
;      TELEFAX:  (617) 832-7000
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  158 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-247-904B-10

  Query Match             77.1%;  Score 37;  DB 1;  Length 158;
  Best Local Similarity   66.7%;  Pred. No. 11;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |::|||:||
Db         44 VPEFAFKDL 52


RESULT 24
US-08-767-942A-19
; Sequence 19, Application US/08767942A
; Patent No. 6068982
;  GENERAL INFORMATION:
;    APPLICANT:  Rolfe, Mark
;    APPLICANT:  Chiu, M. Isabel
;    APPLICANT:  Berlin, Vivian
;    APPLICANT:  Damagnez, Veronique
;    APPLICANT:  Draetta, Giulio
;    APPLICANT:  Guillaume, Cottarel
;    TITLE OF INVENTION:  UBIQUITIN CONJUGATING ENZYMES
;    NUMBER OF SEQUENCES:  45
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  FOLEY, HOAG & ELIOT LLP
;      STREET:  One Post Office Square
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109-2170
```

```
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/767,942A
;      FILING DATE:  17-DEC-1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Vincent, Matthew P.
;      REGISTRATION NUMBER:  36,709
;      REFERENCE/DOCKET NUMBER:  MIV-029.04
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-832-1000
;      TELEFAX:  617-832-7000
;  INFORMATION FOR SEQ ID NO:  19:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  158 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-767-942A-19

  Query Match             77.1%;  Score 37;  DB 2;  Length 158;
  Best Local Similarity   66.7%;  Pred. No. 11;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |::|||:||
Db         44 VFEFAFKDL 52


RESULT 25
US-08-117-083-14
; Sequence 14, Application US/08117083
; Patent No. 5719054
;  GENERAL INFORMATION:
;    APPLICANT:  Boursnell, Michael E.
;    APPLICANT:  Inglis, Stephen C.
;    APPLICANT:  Munro, Alan J.
;    TITLE OF INVENTION:  Recombinant Virus Vectors Encoding Human
;    TITLE OF INVENTION:  Papilloma Virus Proteins
;    NUMBER OF SEQUENCES:  70
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Walter H. Dreger
;      STREET:  4 Embarcadero Center, Suite 3400
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/117,083
;      FILING DATE:  10-SEP-1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Dreger, Walter H.
;      REGISTRATION NUMBER:  24,190
;      REFERENCE/DOCKET NUMBER:  A-58783
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-781-1989
;      TELEFAX:  415-398-3249
;      TELEX:  910 277299
;  INFORMATION FOR SEQ ID NO:  14:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  271 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    FEATURE:
;      NAME/KEY:  Protein
;      LOCATION:  1..271
;      OTHER INFORMATION:  /note= "Xaa refers to stop codon in
;      OTHER INFORMATION:  the open reading frame."
US-08-117-083-14

  Query Match             77.1%;  Score 37;  DB 1;  Length 271;
  Best Local Similarity   66.7%;  Pred. No. 19;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |::|||:||
Db         45 VFEFAFKDL 53


RESULT 26
US-09-485-885-21
; Sequence 21, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 21
;   LENGTH: 278
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-21

  Query Match             77.1%;  Score 37;  DB 2;  Length 278;
  Best Local Similarity   66.7%;  Pred. No. 19;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |::|||:||
Db        155 VFEFAFKDL 163


RESULT 27
US-09-485-885-23
; Sequence 23, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 23
```

```
;   LENGTH: 383
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-23

  Query Match             77.1%;  Score 37;  DB 2;  Length 383;
  Best Local Similarity   66.7%;  Pred. No. 27;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |::|||:||
Db        155 VFEFAPKDL 163


RESULT 28
US-09-583-110-3915
; Sequence 3915, Application US/09583110
; Patent No. 6699703
; GENERAL INFORMATION:
;  APPLICANT:  Lynn Doucette-Stamm et al.
;  TITLE OF INVENTION:  Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
;  TITLE OF INVENTION:  Pneumoniae for Diagnostics and Therapeutics
;  FILE REFERENCE:  PATH00-07A
;  CURRENT APPLICATION NUMBER: US/09/583,110
;  CURRENT FILING DATE:  2000-05-26
;  PRIOR APPLICATION NUMBER:  US 09/107,433
;  PRIOR FILING DATE:  1998-06-30
;  PRIOR APPLICATION NUMBER:  US 60/085,131
;  PRIOR FILING DATE:  1998-05-12
;  PRIOR APPLICATION NUMBER:  US 60/051,553
;  PRIOR FILING DATE:  1997-07-02
;  NUMBER OF SEQ ID NOS:  5322
; SEQ ID NO 3915
;   LENGTH: 188
;   TYPE: PRT
;   ORGANISM: Streptococcus pneumoniae
US-09-583-110-3915

  Query Match             72.9%;  Score 35;  DB 2;  Length 188;
  Best Local Similarity   66.7%;  Pred. No. 31;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |:||| ||:
Db         81 VFDFAIRDV 89


RESULT 29
US-09-248-796A-17543
; Sequence 17543, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 17543
;   LENGTH: 290
;   TYPE: PRT
;   ORGANISM: Candida albicans
;   FEATURE:
;   NAME/KEY: UNSURE
;   LOCATION: (240),(249)
;   OTHER INFORMATION: Identity of amino acid sequences at the above locations are unkno
US-09-248-796A-17543

  Query Match             72.9%;  Score 35;  DB 2;  Length 290;
  Best Local Similarity   85.7%;  Pred. No. 49;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YDFAFRD 8
              ||| |||
Db        116 YDFIFRD 122


RESULT 30
US-09-758-759-111
; Sequence 111, Application US/09758759
; Patent No. 6861513
; GENERAL INFORMATION:
;  APPLICANT: Hosted, Thomas J.
;  APPLICANT:  Wang, Tim X.
;  APPLICANT:  Horan, Ann C.
;  TITLE OF INVENTION: Everninomicin Biosynthetic Genes
;  FILE REFERENCE: ID0983K US
;  CURRENT APPLICATION NUMBER: US/09/758,759
;  CURRENT FILING DATE:  2001-01-11
;  PRIOR APPLICATION NUMBER: US 60/175,751
;  PRIOR FILING DATE: 2000-01-12
;  NUMBER OF SEQ ID NOS: 204
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 111
;   LENGTH: 321
;   TYPE: PRT
;   ORGANISM: Micromonospora carbonacea
;   FEATURE:
;   OTHER INFORMATION: evbK
US-09-758-759-111

  Query Match             72.9%;  Score 35;  DB 2;  Length 321;
  Best Local Similarity   75.0%;  Pred. No. 55;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRD 8
              :|| ||||
Db        187 IYDTAFRD 194


RESULT 31
US-08-746-797-2
; Sequence 2, Application US/08746797
; Patent No. 5759832
;  GENERAL INFORMATION:
;    APPLICANT:  Gentry, Daniel
;    APPLICANT:  Lonsdale, John
;    APPLICANT:  Payne, David
;    APPLICANT:  Pearson, Stewart
;    TITLE OF INVENTION:  NOVEL FabH
;    NUMBER OF SEQUENCES:  7
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  SmithKline Beecham Corporation
;      STREET:  709 Swedeland Road
;      CITY:  King of Prussia
;      STATE:  PA
;      COUNTRY:  U.S.A.
;      ZIP:  19406-0939
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 1.5
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/746,797
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  No. 5759832 Yet Assigned
;      FILING DATE:  23-OCT-1996
;    ATTORNEY/AGENT INFORMATION:
```

```
;      NAME:  Gimmi, Edward R
;      REGISTRATION NUMBER:  38,891
;      REFERENCE/DOCKET NUMBER:  P50573
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  610-270-4478
;      TELEFAX:  610-270-5090
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  324 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    FRAGMENT TYPE:  N-terminal
;    ORIGINAL SOURCE:
US-08-746-797-2

  Query Match             72.9%;  Score 35;  DB 1;  Length 324;
  Best Local Similarity   66.7%;  Pred. No. 55;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |:||| ||:
Db        217 VFDFAIRDV 225


RESULT 32
US-08-927-387-2
; Sequence 2, Application US/08927387
; Patent No. 5783432
;  GENERAL INFORMATION:
;    APPLICANT:  Gentry, Daniel
;    APPLICANT:  Lonsdale, John
;    APPLICANT:  Payne, David
;    APPLICANT:  Pearson, Stewart
;    TITLE OF INVENTION:  NOVEL FabH
;    NUMBER OF SEQUENCES:  7
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  SmithKline Beecham Corporation
;      STREET:  709 Swedeland Road
;      CITY:  King of Prussia
;      STATE:  PA
;      COUNTRY:  U.S.A.
;      ZIP:  19406-0939
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 1.5
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/927,387
;      FILING DATE:  25-AUG-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/746,797
;      FILING DATE:  23-OCT-1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Gimmi, Edward R
;      REGISTRATION NUMBER:  38,891
;      REFERENCE/DOCKET NUMBER:  P50573
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  610-270-4478
;      TELEFAX:  610-270-5090
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  324 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    FRAGMENT TYPE:  N-terminal
;    ORIGINAL SOURCE:
US-08-927-387-2

  Query Match             72.9%;  Score 35;  DB 1;  Length 324;
  Best Local Similarity   66.7%;  Pred. No. 55;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |:||| ||:
Db        217 VFDFAIRDV 225


RESULT 33
US-08-918-058-2
; Sequence 2, Application US/08918058
; Patent No. 5885572
;  GENERAL INFORMATION:
;    APPLICANT:  Gentry, Daniel
;    APPLICANT:  Lonsdale, John
;    APPLICANT:  Payne, David
;    APPLICANT:  Pearson, Stewart
;    TITLE OF INVENTION:  NOVEL FabH
;    NUMBER OF SEQUENCES:  7
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  SmithKline Beecham Corporation
;      STREET:  709 Swedeland Road
;      CITY:  King of Prussia
;      STATE:  PA
;      COUNTRY:  U.S.A.
;      ZIP:  19406-0939
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 1.5
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/918,058
;      FILING DATE:  25-AUG-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/746,797
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Gimmi, Edward R
;      REGISTRATION NUMBER:  38,891
;      REFERENCE/DOCKET NUMBER:  P50573
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  610-270-4478
;      TELEFAX:  610-270-5090
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  324 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    FRAGMENT TYPE:  N-terminal
;    ORIGINAL SOURCE:
US-08-918-058-2

  Query Match             72.9%;  Score 35;  DB 1;  Length 324;
  Best Local Similarity   66.7%;  Pred. No. 55;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |:||| ||:
```

```
Db        217 VFDFAIRDV 225


RESULT 34
US-10-089-019-16
; Sequence 16, Application US/10089019
; Patent No. 6951729
; GENERAL INFORMATION:
;  APPLICANT: DEWOLF, WALTER E. JR
;  APPLICANT:  KALLENDER, HOWARD
;  APPLICANT:  LONSDALE, JOHN T.
;  TITLE OF INVENTION: METHODS FOR MAKING AND USING FATTY ACID
;  TITLE OF INVENTION:  SYNTHESIS PATHWAY REAGENTS
;  FILE REFERENCE: GM50068
;  CURRENT APPLICATION NUMBER: US/10/089,019
;  CURRENT FILING DATE:  2002-03-25
;  PRIOR APPLICATION NUMBER: PCT/US00/29451
;  PRIOR FILING DATE: 2000-10-26
;  PRIOR APPLICATION NUMBER: 60/161,775
;  PRIOR FILING DATE: 1999-10-27
;  NUMBER OF SEQ ID NOS: 37
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 16
;   LENGTH: 324
;   TYPE: PRT
;   ORGANISM: Streptococcus pneumoniae
US-10-089-019-16

  Query Match             72.9%;  Score 35;  DB 2;  Length 324;
  Best Local Similarity   66.7%;  Pred. No. 55;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |:||| ||:
Db        217 VFDFAIRDV 225


RESULT 35
US-09-810-836B-8
; Sequence 8, Application US/09810836B
; Patent No. 6835540
; GENERAL INFORMATION:
;  APPLICANT: Broun, Pierre
;  TITLE OF INVENTION: METHOD FOR MODIFYING A BIOSYNTHETIC
;  TITLE OF INVENTION:  PATHWAY
;  FILE REFERENCE: 514442001200/MBI0032
;  CURRENT APPLICATION NUMBER: US/09/810,836B
;  CURRENT FILING DATE:  2001-03-16
;  NUMBER OF SEQ ID NOS: 18
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 195
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
US-09-810-836B-8

  Query Match             70.8%;  Score 34;  DB 2;  Length 195;
  Best Local Similarity   75.0%;  Pred. No. 50;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YDFAFRDL 9
              |||:| ||
Db        141 YDFSFLDL 148


RESULT 36
US-09-270-767-36699
; Sequence 36699, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 36699
;   LENGTH: 82
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-36699

  Query Match             68.8%;  Score 33;  DB 2;  Length 82;
  Best Local Similarity   55.6%;  Pred. No. 31;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              :: | ||||
Db         56 IFSFVFRDL 64


RESULT 37
US-09-270-767-51916
; Sequence 51916, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 51916
;   LENGTH: 82
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-51916

  Query Match             68.8%;  Score 33;  DB 2;  Length 82;
  Best Local Similarity   55.6%;  Pred. No. 31;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              :: | ||||
Db         56 IFSFVFRDL 64


RESULT 38
US-09-107-532A-5878
; Sequence 5878, Application US/09107532A
; Patent No. 6583275
;   GENERAL INFORMATION:
;        APPLICANT: Lynn A Doucette-Stamm  and David Bush
;        TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;                            ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
;        NUMBER OF SEQUENCES: 7310
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;             STREET: 100 Beaver Street
;             CITY: Waltham
;             STATE: Massachusetts
;             COUNTRY: USA
;             ZIP: 02354
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: CD/ROM ISO9660
;             COMPUTER: PC
;             OPERATING SYSTEM: <Unknown>
;             SOFTWARE: ASCII
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/107,532A
;             FILING DATE: 30-Jun-1998
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 60/085,598
;             FILING DATE: 14 May 1998
```

```
;             APPLICATION NUMBER: 60/051571
;             FILING DATE: July 2, 1997
;          ATTORNEY/AGENT INFORMATION:
;             NAME: Ariniello, Pamela Deneke
;             REGISTRATION NUMBER: 40,489
;             REFERENCE/DOCKET NUMBER: GTC-012
;          TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (781)893-5007
;             TELEFAX: (781)893-8277
;       INFORMATION FOR SEQ ID NO: 5878:
;          SEQUENCE CHARACTERISTICS:
;             LENGTH: 134 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;          MOLECULE TYPE: protein
;          HYPOTHETICAL: YES
;          ORIGINAL SOURCE:
;             ORGANISM: Enterococcus faecium
;          FEATURE:
;             NAME/KEY:  misc_feature
;             LOCATION: (B) LOCATION 1...134
;          SEQUENCE DESCRIPTION: SEQ ID NO: 5878:
US-09-107-532A-5878

  Query Match             68.8%;  Score 33;  DB 2;  Length 134;
  Best Local Similarity   55.6%;  Pred. No. 52;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              ::||| ||:
Db         32 IFDFAVRDV 40


RESULT 39
US-09-107-433-4486
; Sequence 4486, Application US/09107433
; Patent No. 6800744
;   GENERAL INFORMATION:
;          APPLICANT: Lynn A Doucette-Stamm  and David Bush
;          TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID
;                              SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE   FOR DIAGNO
;                              THERAPEUTICS
;          NUMBER OF SEQUENCES: 5206
;          CORRESPONDENCE ADDRESS:
;             ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;             STREET: 100 Beaver Street
;             CITY: Waltham
;             STATE: Massachusetts
;             COUNTRY: USA
;             ZIP: 02354
;          COMPUTER READABLE FORM:
;             MEDIUM TYPE: CD/ROM ISO9660
;             COMPUTER: <Unknown>
;             OPERATING SYSTEM: <Unknown>
;             SOFTWARE: <Unknown>
;          CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/107,433
;             FILING DATE: 30-Jun-1998
;          PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 60/ 085131
;             FILING DATE: May 12, 1998
;             APPLICATION NUMBER: 60/051553
;             FILING DATE: July 2, 1997
;          ATTORNEY/AGENT INFORMATION:
;             NAME: Ariniello, Pamela Deneke
;             REGISTRATION NUMBER: 40,489
;             REFERENCE/DOCKET NUMBER: GTC-011
;          TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (781)893-5007
;             TELEFAX: (781)893-8277
;       INFORMATION FOR SEQ ID NO: 4486:
;          SEQUENCE CHARACTERISTICS:
;             LENGTH: 391 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;          MOLECULE TYPE: protein
;          HYPOTHETICAL: YES
;          ORIGINAL SOURCE:
;             ORGANISM: Streptococcus pneumoniae
;          FEATURE:
;             NAME/KEY:  misc_feature
;             LOCATION: (B) LOCATION 1...391
;          SEQUENCE DESCRIPTION: SEQ ID NO: 4486:
US-09-107-433-4486

  Query Match             68.8%;  Score 33;  DB 2;  Length 391;
  Best Local Similarity   71.4%;  Pred. No. 1.6e+02;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 YDFAFRD 8
              :|||:||
Db        172 FDFAYRD 178


RESULT 40
US-09-583-110-4066
; Sequence 4066, Application US/09583110
; Patent No. 6699703
; GENERAL INFORMATION:
;  APPLICANT:  Lynn Doucette-Stamm et al.
;  TITLE OF INVENTION:  Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
;  TITLE OF INVENTION:  Pneumoniae for Diagnostics and Therapeutics
;  FILE REFERENCE:  PATH00-07A
;  CURRENT APPLICATION NUMBER: US/09/583,110
;  CURRENT FILING DATE:  2000-05-26
;  PRIOR APPLICATION NUMBER:  US 09/107,433
;  PRIOR FILING DATE:  1998-06-30
;  PRIOR APPLICATION NUMBER:  US 60/085,131
;  PRIOR FILING DATE:  1998-05-12
;  PRIOR APPLICATION NUMBER:  US 60/051,553
;  PRIOR FILING DATE:  1997-07-02
;  NUMBER OF SEQ ID NOS:  5322
; SEQ ID NO 4066
;   LENGTH: 444
;   TYPE: PRT
;   ORGANISM: Streptococcus pneumoniae
US-09-583-110-4066

  Query Match             68.8%;  Score 33;  DB 2;  Length 444;
  Best Local Similarity   71.4%;  Pred. No. 1.9e+02;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 YDFAFRD 8
              :|||:||
Db        225 FDFAYRD 231


RESULT 41
US-09-543-681A-6351
; Sequence 6351, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
;  APPLICANT: GARY BRETON
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILI
;  TITLE OF INVENTION:  DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 2709.1002-001
;  CURRENT APPLICATION NUMBER: US/09/543,681A
;  CURRENT FILING DATE:  2000-04-05
;  PRIOR APPLICATION NUMBER: US 60/128,706
;  PRIOR FILING DATE: 1999-04-09
;  NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 6351
;   LENGTH: 452
;   TYPE: PRT
;   ORGANISM: Proteus mirabilis
US-09-543-681A-6351
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  Query Match             68.8%;  Score 33;  DB 2;  Length 452;
  Best Local Similarity   75.0%;  Pred. No. 1.9e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRD 8
              :|| ||||
Db        368 IYDPAFRD 375


RESULT 42
US-09-107-532A-4634
; Sequence 4634, Application US/09107532A
; Patent No. 6583275
;   GENERAL INFORMATION:
;        APPLICANT: Lynn A Doucette-Stamm  and David Bush
;        TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;                            ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
;        NUMBER OF SEQUENCES: 7310
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;             STREET: 100 Beaver Street
;             CITY: Waltham
;             STATE: Massachusetts
;             COUNTRY: USA
;             ZIP: 02354
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: CD/ROM ISO9660
;             COMPUTER: PC
;             OPERATING SYSTEM: <Unknown>
;             SOFTWARE: ASCII
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/107,532A
;             FILING DATE: 30-Jun-1998
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 60/085,598
;             FILING DATE: 14 May 1998
;             APPLICATION NUMBER: 60/051571
;             FILING DATE: July 2, 1997
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Ariniello, Pamela Deneke
;             REGISTRATION NUMBER: 40,489
;             REFERENCE/DOCKET NUMBER: GTC-012
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (781)893-5007
;             TELEFAX: (781)893-8277
;   INFORMATION FOR SEQ ID NO: 4634:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 137 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        HYPOTHETICAL: YES
;        ORIGINAL SOURCE:
;             ORGANISM: Enterococcus faecium
;        FEATURE:
;             NAME/KEY:  misc_feature
;             LOCATION: (B) LOCATION 1...137
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4634:
US-09-107-532A-4634

  Query Match             66.7%;  Score 32;  DB 2;  Length 137;
  Best Local Similarity   55.6%;  Pred. No. 82;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              ::|| ||:|
Db         84 LFDFVFRNL 92


RESULT 43
US-09-452-239-44
; Sequence 44, Application US/09452239
; Patent No. 6465229
; GENERAL INFORMATION:
;  APPLICANT: Rafalski, Antoni J.
;  APPLICANT: Fader, Gary M.
;  APPLICANT: Cahoon, Rebecca E.
;  TITLE OF INVENTION: Plant Caffeoyl-CoA O-Methyltransferase
;  FILE REFERENCE: BB1284 US NA
;  CURRENT APPLICATION NUMBER: US/09/452,239
;  CURRENT FILING DATE: 1999-12-01
;  EARLIER APPLICATION NUMBER: 60/110,594
;  EARLIER FILING DATE: 1998-December-02
;  NUMBER OF SEQ ID NOS: 50
;  SOFTWARE: Microsoft Office 97
; SEQ ID NO 44
;   LENGTH: 247
;   TYPE: PRT
;   ORGANISM: Triticum aestivum
;   FEATURE:
;   NAME/KEY: UNSURE
;   LOCATION: (96)
US-09-452-239-44

  Query Match             66.7%;  Score 32;  DB 2;  Length 247;
  Best Local Similarity   85.7%;  Pred. No. 1.5e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YDFAFRD 8
              ||||| |
Db        157 YDFAFVD 163


RESULT 44
US-09-452-239-46
; Sequence 46, Application US/09452239
; Patent No. 6465229
; GENERAL INFORMATION:
;  APPLICANT: Rafalski, Antoni J.
;  APPLICANT: Fader, Gary M.
;  APPLICANT: Cahoon, Rebecca E.
;  TITLE OF INVENTION: Plant Caffeoyl-CoA O-Methyltransferase
;  FILE REFERENCE: BB1284 US NA
;  CURRENT APPLICATION NUMBER: US/09/452,239
;  CURRENT FILING DATE: 1999-12-01
;  EARLIER APPLICATION NUMBER: 60/110,594
;  EARLIER FILING DATE: 1998-December-02
;  NUMBER OF SEQ ID NOS: 50
;  SOFTWARE: Microsoft Office 97
; SEQ ID NO 46
;   LENGTH: 247
;   TYPE: PRT
;   ORGANISM: Triticum aestivum
US-09-452-239-46

  Query Match             66.7%;  Score 32;  DB 2;  Length 247;
  Best Local Similarity   85.7%;  Pred. No. 1.5e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YDFAFRD 8
              ||||| |
Db        157 YDFAFVD 163


RESULT 45
US-09-605-703B-872
; Sequence 872, Application US/09605703B
; Patent No. 6962989
; GENERAL INFORMATION:
;  APPLICANT: Pompejus, Markus
;  APPLICANT:  Kroger, Burkhard
;  APPLICANT:  Schroder, Hartwig
;  APPLICANT:  Zelder, Oskar
;  APPLICANT:  Haberhauer, Gregor
;  TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING NOVEL
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;  TITLE OF INVENTION:  PROTEINS
;  FILE REFERENCE: BGI-129CP
;  CURRENT APPLICATION NUMBER: US/09/605,703B
;  CURRENT FILING DATE:  2000-06-27
;  PRIOR APPLICATION NUMBER: 60/142,764
;  PRIOR FILING DATE: 1999-07-08
;  PRIOR APPLICATION NUMBER: 60/152,318
;  PRIOR FILING DATE: 1999-09-03
;  NUMBER OF SEQ ID NOS: 2934
; SEQ ID NO 872
;   LENGTH: 262
;   TYPE: PRT
;   ORGANISM: Corynebacterium glutamicum
US-09-605-703B-872

  Query Match             66.7%;  Score 32;  DB 2;  Length 262;
  Best Local Similarity   55.6%;  Pred. No. 1.6e+02;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
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Db        117 LYDYSFRPL 125


RESULT 46
US-09-605-703B-874
; Sequence 874, Application US/09605703B
; Patent No. 6962989
; GENERAL INFORMATION:
;  APPLICANT: Pompejus, Markus
;  APPLICANT:  Kroger, Burkhard
;  APPLICANT:  Schroder, Hartwig
;  APPLICANT:  Zelder, Oskar
;  APPLICANT:  Haberhauer, Gregor
;  TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING NOVEL
;  TITLE OF INVENTION:  PROTEINS
;  FILE REFERENCE: BGI-129CP
;  CURRENT APPLICATION NUMBER: US/09/605,703B
;  CURRENT FILING DATE:  2000-06-27
;  PRIOR APPLICATION NUMBER: 60/142,764
;  PRIOR FILING DATE: 1999-07-08
;  PRIOR APPLICATION NUMBER: 60/152,318
;  PRIOR FILING DATE: 1999-09-03
;  NUMBER OF SEQ ID NOS: 2934
; SEQ ID NO 874
;   LENGTH: 262
;   TYPE: PRT
;   ORGANISM: Corynebacterium glutamicum
US-09-605-703B-874

  Query Match             66.7%;  Score 32;  DB 2;  Length 262;
  Best Local Similarity   55.6%;  Pred. No. 1.6e+02;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              :||::|| |
Db        117 LYDYSFRPL 125


RESULT 47
US-09-270-767-41497
; Sequence 41497, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 41497
;   LENGTH: 268
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-41497

  Query Match             66.7%;  Score 32;  DB 2;  Length 268;
  Best Local Similarity   55.6%;  Pred. No. 1.7e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              :||:  |||
Db        116 MYDYGLRDL 124


RESULT 48
US-09-252-991A-16878
; Sequence 16878, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 16878
;   LENGTH: 280
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-16878

  Query Match             66.7%;  Score 32;  DB 2;  Length 280;
  Best Local Similarity   55.6%;  Pred. No. 1.8e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
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Db         89 IYDWRFEDL 97


RESULT 49
US-09-248-796A-17939
; Sequence 17939, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 17939
;   LENGTH: 286
;   TYPE: PRT
;   ORGANISM: Candida albicans
US-09-248-796A-17939

  Query Match             66.7%;  Score 32;  DB 2;  Length 286;
  Best Local Similarity   71.4%;  Pred. No. 1.8e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YDFAFRD 8
              ||| |:|
Db        244 YDFKFKD 250
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RESULT 50
US-09-248-796A-18343
; Sequence 18343, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 18343
; LENGTH: 306
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-18343

Query Match 66.7%; Score 32; DB 2; Length 306;
Best Local Similarity 66.7%; Pred. No. 1.9e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

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Qy          1 VYDFAFRDL 9
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Db         87 VIDLAFRDI 95
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Search completed: May 5, 2006, 04:48:23
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:18:14 ; Search time 56 Seconds
(without alignments)
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Title: US-08-170-344-67
Perfect score: 48
Sequence: 1 VYDFAFRDL 9

Scoring table: BLOSUM62
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Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_Main:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
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| 1 | 48 | 100.0 | 9 | 5 | US-10-751-845-84 | Sequence 84, Appl |
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| 3 | 48 | 100.0 | 10 | 5 | US-10-484-063-5 | Sequence 5, Appli |
| 4 | 48 | 100.0 | 10 | 5 | US-10-751-845-92 | Sequence 92, Appl |
| 5 | 48 | 100.0 | 10 | 5 | US-10-751-845-94 | Sequence 94, Appl |
| 6 | 48 | 100.0 | 15 | 5 | US-10-484-063-4 | Sequence 4, Appli |
| 7 | 48 | 100.0 | 22 | 5 | US-10-858-384-6 | Sequence 6, Appli |
| 8 | 48 | 100.0 | 24 | 5 | US-10-751-845-65 | Sequence 65, Appl |
| 9 | 48 | 100.0 | 117 | 5 | US-10-751-845-126 | Sequence 126, App |
| 10 | 48 | 100.0 | 151 | 4 | US-10-177-390-6 | Sequence 6, Appli |
| 11 | 48 | 100.0 | 151 | 5 | US-10-484-063-20 | Sequence 20, Appl |
| 12 | 48 | 100.0 | 151 | 5 | US-10-484-063-27 | Sequence 27, Appl |
| 13 | 48 | 100.0 | 158 | 5 | US-10-858-384-2 | Sequence 2, Appli |
| 14 | 48 | 100.0 | 158 | 5 | US-10-367-057-16 | Sequence 16, Appl |
| 15 | 48 | 100.0 | 158 | 6 | US-11-021-949-13 | Sequence 13, Appl |
| 16 | 48 | 100.0 | 171 | 4 | US-10-472-724-2 | Sequence 2, Appli |
| 17 | 48 | 100.0 | 236 | 5 | US-10-751-845-157 | Sequence 157, App |
| 18 | 48 | 100.0 | 237 | 5 | US-10-751-845-158 | Sequence 158, App |
| 19 | 48 | 100.0 | 243 | 6 | US-11-072-288-1 | Sequence 1, Appli |
| 20 | 48 | 100.0 | 261 | 5 | US-10-751-845-160 | Sequence 160, App |
| 21 | 48 | 100.0 | 266 | 3 | US-09-367-309A-1 | Sequence 1, Appli |
| 22 | 48 | 100.0 | 273 | 4 | US-10-000-903-4 | Sequence 4, Appli |
| 23 | 48 | 100.0 | 273 | 5 | US-10-899-771-4 | Sequence 4, Appli |
| 24 | 48 | 100.0 | 292 | 4 | US-10-000-903-10 | Sequence 10, Appl |
| 25 | 48 | 100.0 | 292 | 5 | US-10-899-771-10 | Sequence 10, Appl |
| 26 | 48 | 100.0 | 371 | 4 | US-10-000-903-6 | Sequence 6, Appli |
| 27 | 48 | 100.0 | 371 | 5 | US-10-899-771-6 | Sequence 6, Appli |
| 28 | 48 | 100.0 | 390 | 4 | US-10-000-903-14 | Sequence 14, Appl |
| 29 | 48 | 100.0 | 390 | 5 | US-10-899-771-14 | Sequence 14, Appl |
| 30 | 48 | 100.0 | 536 | 4 | US-10-367-095-10 | Sequence 10, Appl |
| 31 | 48 | 100.0 | 536 | 4 | US-10-368-046-10 | Sequence 10, Appl |
| 32 | 48 | 100.0 | 536 | 4 | US-10-367-367-10 | Sequence 10, Appl |
| 33 | 48 | 100.0 | 536 | 5 | US-10-918-337-10 | Sequence 10, Appl |
| 34 | 44 | 91.7 | 9 | 5 | US-10-751-845-163 | Sequence 163, App |
| 35 | 44 | 91.7 | 15 | 4 | US-10-476-570-28 | Sequence 28, Appl |
| 36 | 44 | 91.7 | 15 | 4 | US-10-476-570-29 | Sequence 29, Appl |
| 37 | 43 | 89.6 | 148 | 6 | US-11-021-949-359 | Sequence 359, App |
| 38 | 42 | 87.5 | 148 | 6 | US-11-021-949-19 | Sequence 19, Appl |
| 39 | 42 | 87.5 | 149 | 6 | US-11-021-949-16 | Sequence 16, Appl |
| 40 | 39 | 81.2 | 158 | 6 | US-11-021-949-29 | Sequence 29, Appl |
| 41 | 38 | 79.2 | 149 | 6 | US-11-021-949-15 | Sequence 15, Appl |
| 42 | 38 | 79.2 | 158 | 6 | US-11-021-949-30 | Sequence 30, Appl |
| 43 | 38 | 79.2 | 158 | 6 | US-11-021-949-361 | Sequence 361, App |
| 44 | 37 | 77.1 | 9 | 5 | US-10-751-845-89 | Sequence 89, Appl |
| 45 | 37 | 77.1 | 149 | 6 | US-11-021-949-360 | Sequence 360, App |
| 46 | 37 | 77.1 | 158 | 5 | US-10-800-023-27 | Sequence 27, Appl |
| 47 | 37 | 77.1 | 158 | 6 | US-11-021-949-28 | Sequence 28, Appl |
| 48 | 37 | 77.1 | 162 | 6 | US-11-021-949-31 | Sequence 31, Appl |
| 49 | 37 | 77.1 | 172 | 4 | US-10-472-724-6 | Sequence 6, Appli |
| 50 | 37 | 77.1 | 278 | 4 | US-10-000-903-21 | Sequence 21, Appl |
| 51 | 37 | 77.1 | 278 | 5 | US-10-899-771-21 | Sequence 21, Appl |
| 52 | 37 | 77.1 | 383 | 4 | US-10-000-903-23 | Sequence 23, Appl |
| 53 | 37 | 77.1 | 383 | 5 | US-10-899-771-23 | Sequence 23, Appl |
| 54 | 36 | 75.0 | 504 | 4 | US-10-163-198-41 | Sequence 41, Appl |
| 55 | 36 | 75.0 | 1032 | 4 | US-10-282-122A-65229 | Sequence 65229, A |
| 56 | 35 | 72.9 | 160 | 6 | US-11-021-949-32 | Sequence 32, Appl |
| 57 | 35 | 72.9 | 321 | 3 | US-09-758-759-111 | Sequence 111, App |
| 58 | 35 | 72.9 | 321 | 6 | US-11-021-825-111 | Sequence 111, App |
| 59 | 35 | 72.9 | 324 | 3 | US-09-815-242-13357 | Sequence 13357, A |
| 60 | 35 | 72.9 | 324 | 4 | US-10-443-432-4 | Sequence 4, Appli |
| 61 | 35 | 72.9 | 324 | 4 | US-10-282-122A-73802 | Sequence 73802, A |
| 62 | 35 | 72.9 | 324 | 4 | US-10-668-588-4 | Sequence 4, Appli |
| 63 | 35 | 72.9 | 324 | 5 | US-10-472-928-678 | Sequence 678, App |
| 64 | 35 | 72.9 | 324 | 5 | US-10-977-526-4 | Sequence 4, Appli |
| 65 | 35 | 72.9 | 364 | 6 | US-11-013-016-15 | Sequence 15, Appl |
| 66 | 35 | 72.9 | 483 | 4 | US-10-282-122A-51571 | Sequence 51571, A |
| 67 | 34 | 70.8 | 138 | 4 | US-10-425-115-215434 | Sequence 215434, |
| 68 | 34 | 70.8 | 149 | 6 | US-11-021-949-18 | Sequence 18, Appl |
| 69 | 34 | 70.8 | 150 | 4 | US-10-424-599-176289 | Sequence 176289, |
| 70 | 34 | 70.8 | 154 | 6 | US-11-021-949-21 | Sequence 21, Appl |
| 71 | 34 | 70.8 | 195 | 3 | US-09-810-836B-8 | Sequence 8, Appli |
| 72 | 34 | 70.8 | 195 | 4 | US-10-286-264-64 | Sequence 64, Appl |
| 73 | 34 | 70.8 | 195 | 4 | US-10-295-403-22 | Sequence 22, Appl |
| 74 | 34 | 70.8 | 195 | 4 | US-10-225-066A-560 | Sequence 560, App |
| 75 | 34 | 70.8 | 195 | 4 | US-10-374-780A-2438 | Sequence 2438, Ap |
| 76 | 34 | 70.8 | 195 | 5 | US-10-495-918-94 | Sequence 94, Appl |
| 77 | 34 | 70.8 | 195 | 5 | US-10-732-923-5448 | Sequence 5448, Ap |
| 78 | 34 | 70.8 | 195 | 5 | US-10-225-066A-560 | Sequence 560, App |
| 79 | 34 | 70.8 | 285 | 4 | US-10-335-977-5619 | Sequence 5619, Ap |
| 80 | 34 | 70.8 | 324 | 4 | US-10-282-122A-74712 | Sequence 74712, A |
| 81 | 34 | 70.8 | 325 | 4 | US-10-282-122A-72192 | Sequence 72192, A |
| 82 | 33 | 68.8 | 9 | 5 | US-10-751-845-72 | Sequence 72, Appl |
| 83 | 33 | 68.8 | 123 | 4 | US-10-425-115-291317 | Sequence 291317, |
| 84 | 33 | 68.8 | 137 | 4 | US-10-424-599-153133 | Sequence 153133, |
| 85 | 33 | 68.8 | 149 | 6 | US-11-021-949-14 | Sequence 14, Appl |
| 86 | 33 | 68.8 | 150 | 4 | US-10-424-599-267471 | Sequence 267471, |
| 87 | 33 | 68.8 | 241 | 4 | US-10-767-701-43519 | Sequence 43519, A |
| 88 | 33 | 68.8 | 267 | 5 | US-10-472-928-392 | Sequence 392, App |
| 89 | 33 | 68.8 | 320 | 4 | US-10-282-122A-57605 | Sequence 57605, A |
| 90 | 33 | 68.8 | 325 | 4 | US-10-369-493-18368 | Sequence 18368, A |
| 91 | 33 | 68.8 | 391 | 5 | US-10-617-320-4486 | Sequence 4486, Ap |
| 92 | 33 | 68.8 | 430 | 4 | US-10-108-260A-3486 | Sequence 3486, Ap |
| 93 | 33 | 68.8 | 512 | 4 | US-10-425-115-330933 | Sequence 330933, |
| 94 | 33 | 68.8 | 522 | 4 | US-10-437-963-147060 | Sequence 147060, |
| 95 | 33 | 68.8 | 539 | 4 | US-10-425-114-46493 | Sequence 46493, A |
| 96 | 33 | 68.8 | 578 | 4 | US-10-437-963-176386 | Sequence 176386, |
| 97 | 33 | 68.8 | 646 | 4 | US-10-369-493-13985 | Sequence 13985, A |
| 98 | 32 | 66.7 | 32 | 4 | US-10-430-752A-44 | Sequence 44, Appl |
| 99 | 32 | 66.7 | 78 | 4 | US-10-767-701-35917 | Sequence 35917, A |
| 100 | 32 | 66.7 | 87 | 4 | US-10-425-115-265493 | Sequence 265493, |

| | | | | | | |
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| 101 | 32 | 66.7 | 99 | 6 | US-11-111-953-593 | Sequence 593, App |
| 102 | 32 | 66.7 | 108 | 4 | US-10-396-551-4 | Sequence 4, Appli |
| 103 | 32 | 66.7 | 108 | 5 | US-10-869-040-46 | Sequence 46, Appl |
| 104 | 32 | 66.7 | 108 | 5 | US-10-869-040-47 | Sequence 47, Appl |
| 105 | 32 | 66.7 | 112 | 4 | US-10-425-115-341247 | Sequence 341247, |
| 106 | 32 | 66.7 | 132 | 5 | US-10-739-930-5706 | Sequence 5706, Ap |
| 107 | 32 | 66.7 | 133 | 4 | US-10-335-977-8114 | Sequence 8114, Ap |
| 108 | 32 | 66.7 | 140 | 4 | US-10-335-977-8115 | Sequence 8115, Ap |
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| 143 | 31 | 64.6 | 9 | 4 | US-10-128-711-67 | Sequence 67, Appl |
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| 245 | 30 | 62.5 | 306 | 4 | US-10-369-493-6116 | Sequence 6116, Ap |
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| 877 | 29 | 60.4 | 473 | 4 | US-10-139-980-382 | Sequence 382, App |
| 878 | 29 | 60.4 | 473 | 4 | US-10-165-067A-400 | Sequence 400, App |
| 879 | 29 | 60.4 | 473 | 4 | US-10-271-078-6 | Sequence 6, Appli |
| 880 | 29 | 60.4 | 473 | 4 | US-10-271-078-7 | Sequence 7, Appli |
| 881 | 29 | 60.4 | 473 | 4 | US-10-271-078-8 | Sequence 8, Appli |
| 882 | 29 | 60.4 | 473 | 4 | US-10-145-017A-400 | Sequence 400, App |
| 883 | 29 | 60.4 | 473 | 4 | US-10-145-750-382 | Sequence 382, App |
| 884 | 29 | 60.4 | 473 | 4 | US-10-152-373-382 | Sequence 382, App |
| 885 | 29 | 60.4 | 473 | 4 | US-10-164-728A-400 | Sequence 400, App |
| 886 | 29 | 60.4 | 473 | 4 | US-10-218-765-128 | Sequence 128, App |
| 887 | 29 | 60.4 | 473 | 4 | US-10-219-063-128 | Sequence 128, App |
| 888 | 29 | 60.4 | 473 | 4 | US-10-219-066-128 | Sequence 128, App |
| 889 | 29 | 60.4 | 473 | 4 | US-10-219-067-128 | Sequence 128, App |
| 890 | 29 | 60.4 | 473 | 4 | US-10-219-068-128 | Sequence 128, App |
| 891 | 29 | 60.4 | 473 | 4 | US-10-219-069-128 | Sequence 128, App |
| 892 | 29 | 60.4 | 473 | 4 | US-10-219-073-128 | Sequence 128, App |
| 893 | 29 | 60.4 | 473 | 4 | US-10-219-475-128 | Sequence 128, App |
| 894 | 29 | 60.4 | 473 | 4 | US-10-219-480-128 | Sequence 128, App |
| 895 | 29 | 60.4 | 473 | 4 | US-10-219-483-128 | Sequence 128, App |
| 896 | 29 | 60.4 | 473 | 4 | US-10-219-525-128 | Sequence 128, App |
| 897 | 29 | 60.4 | 473 | 4 | US-10-219-526-128 | Sequence 128, App |
| 898 | 29 | 60.4 | 473 | 4 | US-10-219-530-128 | Sequence 128, App |
| 899 | 29 | 60.4 | 473 | 4 | US-10-219-531-128 | Sequence 128, App |
| 900 | 29 | 60.4 | 473 | 4 | US-10-219-532-128 | Sequence 128, App |
| 901 | 29 | 60.4 | 473 | 4 | US-10-219-533-128 | Sequence 128, App |
| 902 | 29 | 60.4 | 473 | 4 | US-10-230-437-128 | Sequence 128, App |
| 903 | 29 | 60.4 | 473 | 4 | US-10-232-228-128 | Sequence 128, App |
| 904 | 29 | 60.4 | 473 | 4 | US-10-013-926A-400 | Sequence 400, App |
| 905 | 29 | 60.4 | 473 | 4 | US-10-165-247A-400 | Sequence 400, App |
| 906 | 29 | 60.4 | 473 | 4 | US-10-145-124A-400 | Sequence 400, App |
| 907 | 29 | 60.4 | 473 | 4 | US-10-160-502A-400 | Sequence 400, App |
| 908 | 29 | 60.4 | 473 | 4 | US-10-121-044-382 | Sequence 382, App |
| 909 | 29 | 60.4 | 473 | 4 | US-10-121-055-382 | Sequence 382, App |
| 910 | 29 | 60.4 | 473 | 4 | US-10-121-057-382 | Sequence 382, App |
| 911 | 29 | 60.4 | 473 | 4 | US-10-121-058-382 | Sequence 382, App |
| 912 | 29 | 60.4 | 473 | 4 | US-10-121-059-382 | Sequence 382, App |
| 913 | 29 | 60.4 | 473 | 4 | US-10-121-060-382 | Sequence 382, App |
| 914 | 29 | 60.4 | 473 | 4 | US-10-123-109-382 | Sequence 382, App |
| 915 | 29 | 60.4 | 473 | 4 | US-10-123-154-382 | Sequence 382, App |
| 916 | 29 | 60.4 | 473 | 4 | US-10-123-157-382 | Sequence 382, App |
| 917 | 29 | 60.4 | 473 | 4 | US-10-123-906-382 | Sequence 382, App |
| 918 | 29 | 60.4 | 473 | 4 | US-10-124-814-382 | Sequence 382, App |
| 919 | 29 | 60.4 | 473 | 4 | US-10-124-816-382 | Sequence 382, App |
| 920 | 29 | 60.4 | 473 | 4 | US-10-124-820-382 | Sequence 382, App |
| 921 | 29 | 60.4 | 473 | 4 | US-10-125-704-382 | Sequence 382, App |
| 922 | 29 | 60.4 | 473 | 4 | US-10-125-927-382 | Sequence 382, App |
| 923 | 29 | 60.4 | 473 | 4 | US-10-145-087A-400 | Sequence 400, App |
| 924 | 29 | 60.4 | 473 | 4 | US-10-017-086A-400 | Sequence 400, App |
| 925 | 29 | 60.4 | 473 | 4 | US-10-142-889-382 | Sequence 382, App |
| 926 | 29 | 60.4 | 473 | 4 | US-10-145-874-382 | Sequence 382, App |
| 927 | 29 | 60.4 | 473 | 4 | US-10-147-497-382 | Sequence 382, App |
| 928 | 29 | 60.4 | 473 | 4 | US-10-152-371-382 | Sequence 382, App |
| 929 | 29 | 60.4 | 473 | 4 | US-10-152-374-382 | Sequence 382, App |
| 930 | 29 | 60.4 | 473 | 4 | US-10-152-375-382 | Sequence 382, App |
| 931 | 29 | 60.4 | 473 | 4 | US-10-152-377-382 | Sequence 382, App |
| 932 | 29 | 60.4 | 473 | 4 | US-10-152-386-382 | Sequence 382, App |
| 933 | 29 | 60.4 | 473 | 4 | US-10-152-391-382 | Sequence 382, App |
| 934 | 29 | 60.4 | 473 | 4 | US-10-152-399-382 | Sequence 382, App |
| 935 | 29 | 60.4 | 473 | 4 | US-10-156-848-382 | Sequence 382, App |
| 936 | 29 | 60.4 | 473 | 4 | US-10-157-785-382 | Sequence 382, App |
| 937 | 29 | 60.4 | 473 | 4 | US-10-157-794-382 | Sequence 382, App |
| 938 | 29 | 60.4 | 473 | 4 | US-10-157-796-382 | Sequence 382, App |
| 939 | 29 | 60.4 | 473 | 4 | US-10-160-500-382 | Sequence 382, App |
| 940 | 29 | 60.4 | 473 | 4 | US-10-164-829A-400 | Sequence 400, App |
| 941 | 29 | 60.4 | 473 | 4 | US-10-164-929A-400 | Sequence 400, App |
| 942 | 29 | 60.4 | 473 | 4 | US-10-121-046-382 | Sequence 382, App |
| 943 | 29 | 60.4 | 473 | 4 | US-10-123-156-382 | Sequence 382, App |
| 944 | 29 | 60.4 | 473 | 4 | US-10-123-214-382 | Sequence 382, App |
| 945 | 29 | 60.4 | 473 | 4 | US-10-125-805-382 | Sequence 382, App |
| 946 | 29 | 60.4 | 473 | 4 | US-10-013-922A-400 | Sequence 400, App |
| 947 | 29 | 60.4 | 473 | 4 | US-10-020-445A-400 | Sequence 400, App |
| 948 | 29 | 60.4 | 473 | 4 | US-10-013-924A-400 | Sequence 400, App |
| 949 | 29 | 60.4 | 473 | 4 | US-10-124-821-382 | Sequence 382, App |
| 950 | 29 | 60.4 | 473 | 4 | US-10-152-385-382 | Sequence 382, App |
| 951 | 29 | 60.4 | 473 | 4 | US-10-152-393-382 | Sequence 382, App |
| 952 | 29 | 60.4 | 473 | 4 | US-10-152-396-382 | Sequence 382, App |
| 953 | 29 | 60.4 | 473 | 4 | US-10-153-552-382 | Sequence 382, App |
| 954 | 29 | 60.4 | 473 | 4 | US-10-153-840-382 | Sequence 382, App |
| 955 | 29 | 60.4 | 473 | 4 | US-10-156-841-382 | Sequence 382, App |
| 956 | 29 | 60.4 | 473 | 4 | US-10-156-842-382 | Sequence 382, App |
| 957 | 29 | 60.4 | 473 | 4 | US-10-156-844-382 | Sequence 382, App |
| 958 | 29 | 60.4 | 473 | 4 | US-10-156-845-382 | Sequence 382, App |
| 959 | 29 | 60.4 | 473 | 4 | US-10-156-846-382 | Sequence 382, App |
| 960 | 29 | 60.4 | 473 | 4 | US-10-121-048-382 | Sequence 382, App |
| 961 | 29 | 60.4 | 473 | 4 | US-10-121-052-382 | Sequence 382, App |
| 962 | 29 | 60.4 | 473 | 4 | US-10-121-053-382 | Sequence 382, App |
| 963 | 29 | 60.4 | 473 | 4 | US-10-121-054-382 | Sequence 382, App |
| 964 | 29 | 60.4 | 473 | 4 | US-10-121-063-382 | Sequence 382, App |
| 965 | 29 | 60.4 | 473 | 4 | US-10-123-212-382 | Sequence 382, App |
| 966 | 29 | 60.4 | 473 | 4 | US-10-123-213-382 | Sequence 382, App |
| 967 | 29 | 60.4 | 473 | 4 | US-10-123-291-382 | Sequence 382, App |
| 968 | 29 | 60.4 | 473 | 4 | US-10-123-322-382 | Sequence 382, App |
| 969 | 29 | 60.4 | 473 | 4 | US-10-123-771-382 | Sequence 382, App |
| 970 | 29 | 60.4 | 473 | 4 | US-10-123-911-382 | Sequence 382, App |
| 971 | 29 | 60.4 | 473 | 4 | US-10-124-823-382 | Sequence 382, App |
| 972 | 29 | 60.4 | 473 | 4 | US-10-125-931-382 | Sequence 382, App |
| 973 | 29 | 60.4 | 473 | 4 | US-10-125-932-382 | Sequence 382, App |
| 974 | 29 | 60.4 | 473 | 4 | US-10-017-084A-400 | Sequence 400, App |
| 975 | 29 | 60.4 | 473 | 4 | US-10-127-852A-382 | Sequence 382, App |
| 976 | 29 | 60.4 | 473 | 4 | US-10-127-900A-382 | Sequence 382, App |

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| 977 | 29 | 60.4 | 473 | 4 | US-10-128-685A-382 | Sequence 382, App |
| 978 | 29 | 60.4 | 473 | 4 | US-10-131-820A-382 | Sequence 382, App |
| 979 | 29 | 60.4 | 473 | 4 | US-10-142-886-382 | Sequence 382, App |
| 980 | 29 | 60.4 | 473 | 4 | US-10-145-016A-400 | Sequence 400, App |
| 981 | 29 | 60.4 | 473 | 4 | US-10-145-088A-400 | Sequence 400, App |
| 982 | 29 | 60.4 | 473 | 4 | US-10-145-092A-400 | Sequence 400, App |
| 983 | 29 | 60.4 | 473 | 4 | US-10-145-129A-400 | Sequence 400, App |
| 984 | 29 | 60.4 | 473 | 4 | US-10-146-728-382 | Sequence 382, App |
| 985 | 29 | 60.4 | 473 | 4 | US-10-146-786-382 | Sequence 382, App |
| 986 | 29 | 60.4 | 473 | 4 | US-10-147-499-382 | Sequence 382, App |
| 987 | 29 | 60.4 | 473 | 4 | US-10-157-798-382 | Sequence 382, App |
| 988 | 29 | 60.4 | 473 | 4 | US-10-165-038A-400 | Sequence 400, App |
| 989 | 29 | 60.4 | 473 | 4 | US-10-165-353A-400 | Sequence 400, App |
| 990 | 29 | 60.4 | 473 | 4 | US-10-167-600-400 | Sequence 400, App |
| 991 | 29 | 60.4 | 473 | 4 | US-10-170-481A-400 | Sequence 400, App |
| 992 | 29 | 60.4 | 473 | 4 | US-10-172-039A-400 | Sequence 400, App |
| 993 | 29 | 60.4 | 473 | 4 | US-10-210-028-400 | Sequence 400, App |
| 994 | 29 | 60.4 | 473 | 4 | US-10-123-913-382 | Sequence 382, App |
| 995 | 29 | 60.4 | 473 | 4 | US-10-017-085A-400 | Sequence 400, App |
| 996 | 29 | 60.4 | 473 | 4 | US-10-013-916A-400 | Sequence 400, App |
| 997 | 29 | 60.4 | 473 | 4 | US-10-140-473-382 | Sequence 382, App |
| 998 | 29 | 60.4 | 473 | 4 | US-10-140-806-382 | Sequence 382, App |
| 999 | 29 | 60.4 | 473 | 4 | US-10-140-810-382 | Sequence 382, App |
| 1000 | 29 | 60.4 | 473 | 6 | US-11-090-847-2 | Sequence 2, Appli |

ALIGNMENTS

```
RESULT 1
US-10-751-845-84
; Sequence 84, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 84
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-84

  Query Match             100.0%;  Score 48;  DB 5;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.7e+06;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db          1 VYDFAFRDL 9


RESULT 2
US-10-239-313A-291
; Sequence 291, Application US/10239313A
; Publication No. US20030175285A1
; GENERAL INFORMATION:
;  APPLICANT: KLINGUER - HAMOUR, Christine
;  APPLICANT:  CORVAIA, Nathalie
;  APPLICANT:  BECK, Alain
;  APPLICANT:  GOETSCH, Liliane
;  TITLE OF INVENTION: MOLECULE OF PHARMACEUTICAL INTEREST COMPRISING AT ITS
;  TITLE OF INVENTION:  N-TERMINAL A GLUTAMIC ACID OR A GLUTAMINE IN THE FORM
;  TITLE OF INVENTION:  OF A PHYSIOLOGICALLY ACCEPTABLE STRONG ACID
;  FILE REFERENCE: 343 727 - US
;  CURRENT APPLICATION NUMBER: US/10/239,313A
;  CURRENT FILING DATE:  2002-09-19
;  PRIOR APPLICATION NUMBER: FR 00/03711
;  PRIOR FILING DATE: 2000-03-23
;  PRIOR APPLICATION NUMBER: PCT 01/70772
;  PRIOR FILING DATE: 2001-03-22
;  NUMBER OF SEQ ID NOS: 697
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 291
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-239-313A-291

  Query Match             100.0%;  Score 48;  DB 4;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.037;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db          2 VYDFAFRDL 10


RESULT 3
US-10-484-063-5
; Sequence 5, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-484-063-5

  Query Match             100.0%;  Score 48;  DB 5;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.037;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db          1 VYDFAFRDL 9


RESULT 4
US-10-751-845-92
; Sequence 92, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
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; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 92
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-92

Query Match 100.0%; Score 48; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.037;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VYDFAFRDL 9
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Db 2 VYDFAFRDL 10

RESULT 5
US-10-751-845-94
; Sequence 94, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 94
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-94

Query Match 100.0%; Score 48; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.037;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VYDFAFRDL 9
||||||||| 
Db 1 VYDFAFRDL 9

RESULT 6
US-10-484-063-4
; Sequence 4, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-4

Query Match 100.0%; Score 48; DB 5; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.055;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VYDFAFRDL 9
||||||||| 
Db 7 VYDFAFRDL 15

RESULT 7
US-10-858-384-6
; Sequence 6, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 6
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
; OTHER INFORMATION: for E6 of HPV
US-10-858-384-6

Query Match 100.0%; Score 48; DB 5; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.081;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VYDFAFRDL 9
||||||||| 
Db 4 VYDFAFRDL 12

RESULT 8
US-10-751-845-65
; Sequence 65, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09

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;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 65
;   LENGTH: 24
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-65

  Query Match             100.0%;  Score 48;  DB 5;  Length 24;
  Best Local Similarity   100.0%;  Pred. No. 0.089;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db          6 VYDFAFRDL 14


RESULT 9
US-10-751-845-126
; Sequence 126, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 126
;   LENGTH: 117
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-126

  Query Match             100.0%;  Score 48;  DB 5;  Length 117;
  Best Local Similarity   100.0%;  Pred. No. 0.44;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db         26 VYDFAFRDL 34


RESULT 10
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
;  APPLICANT: Schuler, Gerold
;  APPLICANT:  N.V. Antwerps Innovatiecentrum
;  TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
;  TITLE OF INVENTION:  Polynucleotides by Electroporation
;  FILE REFERENCE: 021505wo/JH/ml
;  CURRENT APPLICATION NUMBER: US/10/177,390
;  CURRENT FILING DATE:  2002-06-20
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-177-390-6

  Query Match             100.0%;  Score 48;  DB 4;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 0.57;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db         42 VYDFAFRDL 50


RESULT 11
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-484-063-20

  Query Match             100.0%;  Score 48;  DB 5;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 0.57;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db         42 VYDFAFRDL 50


RESULT 12
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-484-063-27

  Query Match             100.0%;  Score 48;  DB 5;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 0.57;
```

```
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db         42 VYDFAFRDL 50


RESULT 13
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-10-858-384-2

  Query Match             100.0%;  Score 48;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.6;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db         49 VYDFAFRDL 57


RESULT 14
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
;  APPLICANT: Cuthill, Scott;
;  APPLICANT:  Jackson, Amanda;
;  APPLICANT:  Lewin, David A.;
;  APPLICANT:  Ooi, Chean Eng
;  TITLE OF INVENTION: Complexes and Methods of Using Same
;  FILE REFERENCE: 21402-559
;  CURRENT APPLICATION NUMBER: US/10/367,057
;  CURRENT FILING DATE:  2003-02-14
;  PRIOR APPLICATION NUMBER: 60/256,911
;  PRIOR FILING DATE: 2002-02-14
;  NUMBER OF SEQ ID NOS: 198
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 16
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-367-057-16

  Query Match             100.0%;  Score 48;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.6;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db         49 VYDFAFRDL 57


RESULT 15
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

  Query Match             100.0%;  Score 48;  DB 6;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.6;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db         49 VYDFAFRDL 57


RESULT 16
US-10-472-724-2
; Sequence 2, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
;  APPLICANT: Cid-Arregui, Angel
;  APPLICANT:  Zur Hausen, Harald
;  TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
;  FILE REFERENCE: 4121-154
;  CURRENT APPLICATION NUMBER: US/10/472,724
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP02/03271
;  PRIOR FILING DATE: 2002-03-22
;  PRIOR APPLICATION NUMBER: EP 01107271.7
;  PRIOR FILING DATE: 2001-03-23
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
;   LENGTH: 171
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

  Query Match             100.0%;  Score 48;  DB 4;  Length 171;
  Best Local Similarity   100.0%;  Pred. No. 0.65;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db         54 VYDFAFRDL 62


RESULT 17
US-10-751-845-157
; Sequence 157, Application US/10751845
; Publication No. US20050100928A1
```

```
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 157
;   LENGTH: 236
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157

  Query Match             100.0%;  Score 48;  DB 5;  Length 236;
  Best Local Similarity   100.0%;  Pred. No. 0.9;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db         26 VYDFAFRDL 34


RESULT 18
US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 158
;   LENGTH: 237
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158

  Query Match             100.0%;  Score 48;  DB 5;  Length 237;
  Best Local Similarity   100.0%;  Pred. No. 0.91;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db         27 VYDFAFRDL 35


RESULT 19
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
;  APPLICANT: KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE: 017753-122
;  CURRENT APPLICATION NUMBER: US/11/072,288
;  CURRENT FILING DATE:  2005-03-07
;  PRIOR APPLICATION NUMBER: US/09/462,993
;  PRIOR FILING DATE: 2000-04-17
;  PRIOR APPLICATION NUMBER: PCT/FR98/01576
;  PRIOR FILING DATE: 1998-07-17
;  PRIOR APPLICATION NUMBER: FR 97/09152
;  PRIOR FILING DATE: 1997-07-18
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

  Query Match             100.0%;  Score 48;  DB 6;  Length 243;
  Best Local Similarity   100.0%;  Pred. No. 0.93;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db         77 VYDFAFRDL 85


RESULT 20
US-10-751-845-160
; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 160
;   LENGTH: 261
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160

  Query Match             100.0%;  Score 48;  DB 5;  Length 261;
  Best Local Similarity   100.0%;  Pred. No. 1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db         51 VYDFAFRDL 59
```

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RESULT 21
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 48;  DB 3;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db         49 VYDFAFRDL 57


RESULT 22
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-4

  Query Match             100.0%;  Score 48;  DB 4;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db        155 VYDFAFRDL 163


RESULT 23
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-4

  Query Match             100.0%;  Score 48;  DB 5;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db        155 VYDFAFRDL 163


RESULT 24
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-10

  Query Match             100.0%;  Score 48;  DB 4;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 1.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db        174 VYDFAFRDL 182


RESULT 25
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
```

```
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
;   OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-10

  Query Match             100.0%;  Score 48;  DB 5;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 1.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db        174 VYDFAFRDL 182


RESULT 26
US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-6

  Query Match             100.0%;  Score 48;  DB 4;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 1.4;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db        155 VYDFAFRDL 163


RESULT 27
US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
;   OTHER INFORMATION: virus type 16)
US-10-899-771-6

  Query Match             100.0%;  Score 48;  DB 5;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 1.4;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db        155 VYDFAFRDL 163


RESULT 28
US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-14

  Query Match             100.0%;  Score 48;  DB 4;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 1.5;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db        174 VYDFAFRDL 182


RESULT 29
US-10-899-771-14
```

; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-14

Query Match 100.0%; Score 48; DB 5; Length 390;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VYDFAFRDL 9
||||||||| 
Db 174 VYDFAFRDL 182

RESULT 30
US-10-367-095-10
; Sequence 10, Application US/10367095
; Publication No. US20030228696A1
; GENERAL INFORMATION:
; APPLICANT: Robin A. Robinson
; TITLE OF INVENTION: No. US20030228696A1el Insect Cell Line
; FILE REFERENCE: 44149-1US1
; CURRENT APPLICATION NUMBER: US/10/367,095
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 60/356,119
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,161
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,118
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,133
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,157
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,156
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,123
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,113
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,154
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,135
; PRIOR FILING DATE: 2002-02-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 536
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HPV-16 L2/E6 fusion protein
US-10-367-095-10

Query Match 100.0%; Score 48; DB 4; Length 536;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VYDFAFRDL 9
||||||||| 
Db 519 VYDFAFRDL 527

RESULT 31
US-10-368-046-10
; Sequence 10, Application US/10368046
; Publication No. US20040063188A1
; GENERAL INFORMATION:
; APPLICANT: Robin A. Robinson
; APPLICANT: Vittoria Cioce
; TITLE OF INVENTION: Method for Isolation and Purification of
; TITLE OF INVENTION: Expressed Gene Products In Vitro
; FILE REFERENCE: 44149-3US1
; CURRENT APPLICATION NUMBER: US/10/368,046
; CURRENT FILING DATE: 2003-02-15
; PRIOR APPLICATION NUMBER: US 60/356,119
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,161
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,118
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,133
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,157
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,156
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,123
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,113
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,154
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,135
; PRIOR FILING DATE: 2002-02-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 536
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HPV-16 L2/E6 fusion protein
US-10-368-046-10

Query Match 100.0%; Score 48; DB 4; Length 536;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VYDFAFRDL 9
||||||||| 
Db 519 VYDFAFRDL 527

RESULT 32
US-10-367-367-10
; Sequence 10, Application US/10367367
; Publication No. US20040121465A1
; GENERAL INFORMATION:
; APPLICANT: Robin A. Robinson
; TITLE OF INVENTION: Optimization of Gene Sequences of

```
;  TITLE OF INVENTION:  Virus-Like Particles for Expression in Insect Cells
;  FILE REFERENCE: 44149-2US1
;  CURRENT APPLICATION NUMBER: US/10/367,367
;  CURRENT FILING DATE:  2003-02-15
;  PRIOR APPLICATION NUMBER: US 60/356,119
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,161
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,118
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,133
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,157
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,156
;  PRIOR FILING DATE: 2002-02-14
;  NUMBER OF SEQ ID NOS: 13
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
;   LENGTH: 536
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: HPV-16 L2/E6 fusion protein
US-10-367-367-10

  Query Match             100.0%;  Score 48;  DB 4;  Length 536;
  Best Local Similarity   100.0%;  Pred. No. 2.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db        519 VYDFAFRDL 527


RESULT 33
US-10-918-337-10
; Sequence 10, Application US/10918337
; Publication No. US20050118191A1
; GENERAL INFORMATION:
;  APPLICANT: NOVAVAX, INC., et al.
;  TITLE OF INVENTION: Optimization of Gene Sequences of
;  TITLE OF INVENTION:  Chimeric Virus-Like Particles for Expression in Insect Cells
;  FILE REFERENCE: 19065/2132
;  CURRENT APPLICATION NUMBER: US/10/918,337
;  CURRENT FILING DATE:  2004-08-13
;  PRIOR APPLICATION NUMBER: PCT/US03/04473
;  PRIOR FILING DATE: 2003-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,119
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,161
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,118
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,133
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,157
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,156
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,123
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,113
;  PRIOR FILING DATE: 2002-02-14
;  PRIOR APPLICATION NUMBER: US 60/356,154
;  PRIOR FILING DATE: 2002-02-14
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 13
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
;   LENGTH: 536
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: HPV-16 L2/E6 fusion protein
US-10-918-337-10

  Query Match             100.0%;  Score 48;  DB 5;  Length 536;
  Best Local Similarity   100.0%;  Pred. No. 2.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||||||
Db        519 VYDFAFRDL 527


RESULT 34
US-10-751-845-163
; Sequence 163, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 163
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-163

  Query Match             91.7%;  Score 44;  DB 5;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.7e+06;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRD 8
              ||||||||
Db          2 VYDFAFRD 9


RESULT 35
US-10-476-570-28
; Sequence 28, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 28
;   LENGTH: 15
;   TYPE: PRT
```

; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 42-56
US-10-476-570-28

Query Match 91.7%; Score 44; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.29;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VYDFAFRD 8
||||||||
Db 8 VYDFAFRD 15

RESULT 36
US-10-476-570-29
; Sequence 29, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 50-64
US-10-476-570-29

Query Match 91.7%; Score 44; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.29;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 YDFAFRDL 9
||||||||
Db 1 YDFAFRDL 8

RESULT 37
US-11-021-949-359
; Sequence 359, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 359
; LENGTH: 148
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-359

Query Match 89.6%; Score 43; DB 6; Length 148;
Best Local Similarity 88.9%; Pred. No. 4.5;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 VYDFAFRDL 9
|||| ||||
Db 43 VYDFIFRDL 51

RESULT 38
US-11-021-949-19
; Sequence 19, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 19
; LENGTH: 148
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-19

Query Match 87.5%; Score 42; DB 6; Length 148;
Best Local Similarity 88.9%; Pred. No. 6.9;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 VYDFAFRDL 9
|||||| ||
Db 43 VYDFAFSDL 51

RESULT 39
US-11-021-949-16
; Sequence 16, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-16

```
  Query Match             87.5%;  Score 42;  DB 6;  Length 149;
  Best Local Similarity   88.9%;  Pred. No. 7;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||| ||
Db         42 VYDFAFADL 50


RESULT 40
US-11-021-949-29
; Sequence 29, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 29
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-29

  Query Match             81.2%;  Score 39;  DB 6;  Length 158;
  Best Local Similarity   77.8%;  Pred. No. 26;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              || |||:||
Db         44 VYQFAFKDL 52


RESULT 41
US-11-021-949-15
; Sequence 15, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 15
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-15

  Query Match             79.2%;  Score 38;  DB 6;  Length 149;
  Best Local Similarity   77.8%;  Pred. No. 37;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||| | ||
Db         42 VYDFVFADL 50


RESULT 42
US-11-021-949-30
; Sequence 30, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 30
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-30

  Query Match             79.2%;  Score 38;  DB 6;  Length 158;
  Best Local Similarity   77.8%;  Pred. No. 39;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              ||:||| ||
Db         44 VYEFAFSDL 52


RESULT 43
US-11-021-949-361
; Sequence 361, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 361
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-361

  Query Match             79.2%;  Score 38;  DB 6;  Length 158;
  Best Local Similarity   77.8%;  Pred. No. 39;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              ||:||| ||
Db         44 VYEFAFSDL 52


RESULT 44
```

```
US-10-751-845-89
; Sequence 89, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 89
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-89

  Query Match             77.1%;  Score 37;  DB 5;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.7e+06;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 DFAFRDL 9
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Db          1 DFAFRDL 7


RESULT 45
US-11-021-949-360
; Sequence 360, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 360
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-360

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  Best Local Similarity   77.8%;  Pred. No. 56;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
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Db         42 VYDFLFTDL 50


RESULT 46
US-10-800-023-27
; Sequence 27, Application US/10800023
; Publication No. US20040258688A1
; GENERAL INFORMATION:
;  APPLICANT: Steinman, Ralph
;  APPLICANT:  Nussenzweig, Michel
;  APPLICANT:  Hawiger, Daniel
;  APPLICANT:  Bonifaz, Laura
;  TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
;  TITLE OF INVENTION:  of the Immune Response Therefrom
;  FILE REFERENCE: 600-1-081CONCIP1
;  CURRENT APPLICATION NUMBER: US/10/800,023
;  CURRENT FILING DATE:  2004-03-14
;  PRIOR APPLICATION NUMBER: 09/925,284
;  PRIOR FILING DATE: 2001-08-09
;  PRIOR APPLICATION NUMBER: 09/586,704
;  PRIOR FILING DATE: 2000-06-05
;  PRIOR APPLICATION NUMBER: PCT/US96/01383
;  PRIOR FILING DATE: 1996-01-31
;  PRIOR APPLICATION NUMBER: 08/381,528
;  PRIOR FILING DATE: 1995-01-31
;  NUMBER OF SEQ ID NOS: 37
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 27
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus E6 protein
US-10-800-023-27

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  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |::|||:||
Db         44 VFEFAFKDL 52


RESULT 47
US-11-021-949-28
; Sequence 28, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 28
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-28

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  Best Local Similarity   66.7%;  Pred. No. 60;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |::|||:||
Db         44 VFEFAFKDL 52


RESULT 48
US-11-021-949-31
; Sequence 31, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
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;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 31
;   LENGTH: 162
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-31

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  Best Local Similarity   77.8%;  Pred. No. 61;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              ||:||| ||
Db         48 VYEFAFGDL 56


RESULT 49
US-10-472-724-6
; Sequence 6, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
;  APPLICANT: Cid-Arregui, Angel
;  APPLICANT:  Zur Hausen, Harald
;  TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
;  FILE REFERENCE: 4121-154
;  CURRENT APPLICATION NUMBER: US/10/472,724
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP02/03271
;  PRIOR FILING DATE: 2002-03-22
;  PRIOR APPLICATION NUMBER: EP 01107271.7
;  PRIOR FILING DATE: 2001-03-23
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic Construct
US-10-472-724-6

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  Best Local Similarity   66.7%;  Pred. No. 65;
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Qy          1 VYDFAFRDL 9
              |::|||:||
Db         50 VFEFAFKDL 58


RESULT 50
US-10-000-903-21
; Sequence 21, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 21
;   LENGTH: 278
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-21

  Query Match             77.1%;  Score 37;  DB 4;  Length 278;
  Best Local Similarity   66.7%;  Pred. No. 1.1e+02;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
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Db        155 VFEFAFKDL 163


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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:19:00 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-67
Perfect score: 48
Sequence: 1 VYDFAFRDL 9

Scoring table: BLOSUM62
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Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 1 | 48 | 100.0 | 11 | 9 | US-10-530-061-780 | Sequence 780, App |
| 2 | 48 | 100.0 | 151 | 9 | US-10-530-253-13 | Sequence 13, Appl |
| 3 | 48 | 100.0 | 158 | 11 | US-11-206-138-3 | Sequence 3, Appli |
| 4 | 48 | 100.0 | 248 | 9 | US-10-530-253-1 | Sequence 1, Appli |
| 5 | 48 | 100.0 | 248 | 9 | US-10-530-253-3 | Sequence 3, Appli |
| 6 | 48 | 100.0 | 248 | 9 | US-10-530-253-5 | Sequence 5, Appli |
| 7 | 48 | 100.0 | 248 | 9 | US-10-530-253-7 | Sequence 7, Appli |
| 8 | 48 | 100.0 | 248 | 9 | US-10-530-253-9 | Sequence 9, Appli |
| 9 | 48 | 100.0 | 248 | 9 | US-10-530-253-11 | Sequence 11, Appl |
| 10 | 48 | 100.0 | 256 | 11 | US-11-192-923A-2 | Sequence 2, Appli |
| 11 | 44 | 91.7 | 9 | 9 | US-10-530-061-798 | Sequence 798, App |
| 12 | 42 | 87.5 | 15 | 9 | US-10-530-061-1674 | Sequence 1674, Ap |
| 13 | 42 | 87.5 | 15 | 9 | US-10-530-061-1675 | Sequence 1675, Ap |
| 14 | 42 | 87.5 | 149 | 9 | US-10-530-253-17 | Sequence 17, Appl |
| 15 | 41 | 85.4 | 10 | 9 | US-10-530-061-791 | Sequence 791, App |
| 16 | 39 | 81.2 | 11 | 9 | US-10-530-061-784 | Sequence 784, App |
| 17 | 39 | 81.2 | 158 | 9 | US-10-530-253-20 | Sequence 20, Appl |
| 18 | 38 | 79.2 | 11 | 9 | US-10-530-061-789 | Sequence 789, App |
| 19 | 38 | 79.2 | 15 | 9 | US-10-530-061-1696 | Sequence 1696, Ap |
| 20 | 38 | 79.2 | 149 | 9 | US-10-530-253-24 | Sequence 24, Appl |
| 21 | 38 | 79.2 | 158 | 9 | US-10-530-253-19 | Sequence 19, Appl |
| 22 | 38 | 79.2 | 158 | 9 | US-10-530-253-26 | Sequence 26, Appl |
| 23 | 37 | 77.1 | 10 | 9 | US-10-530-061-849 | Sequence 849, App |
| 24 | 37 | 77.1 | 15 | 9 | US-10-530-061-1660 | Sequence 1660, Ap |
| 25 | 37 | 77.1 | 158 | 9 | US-10-530-253-15 | Sequence 15, Appl |
| 26 | 37 | 77.1 | 703 | 11 | US-11-079-463-6948 | Sequence 6948, Ap |
| 27 | 36 | 75.0 | 181 | 11 | US-11-087-099-3972 | Sequence 3972, Ap |
| 28 | 36 | 75.0 | 1032 | 9 | US-10-467-657-3278 | Sequence 3278, Ap |
| 29 | 35 | 72.9 | 152 | 9 | US-10-530-253-39 | Sequence 39, Appl |
| 30 | 35 | 72.9 | 160 | 9 | US-10-530-253-25 | Sequence 25, Appl |
| 31 | 34 | 70.8 | 9 | 9 | US-10-530-061-841 | Sequence 841, App |
| 32 | 34 | 70.8 | 15 | 9 | US-10-530-061-1668 | Sequence 1668, Ap |
| 33 | 34 | 70.8 | 15 | 9 | US-10-530-061-1669 | Sequence 1669, Ap |
| 34 | 34 | 70.8 | 15 | 9 | US-10-530-061-1709 | Sequence 1709, Ap |
| 35 | 34 | 70.8 | 149 | 9 | US-10-530-253-16 | Sequence 16, Appl |
| 36 | 33 | 68.8 | 149 | 9 | US-10-530-253-18 | Sequence 18, Appl |
| 37 | 33 | 68.8 | 164 | 11 | US-11-096-568A-6351 | Sequence 6351, Ap |
| 38 | 33 | 68.8 | 397 | 11 | US-11-188-298-1801 | Sequence 1801, Ap |
| 39 | 33 | 68.8 | 585 | 9 | US-10-506-454-708 | Sequence 708, App |
| 40 | 32 | 66.7 | 10 | 9 | US-10-530-061-564 | Sequence 564, App |
| 41 | 32 | 66.7 | 247 | 11 | US-11-096-568A-2928 | Sequence 2928, Ap |
| 42 | 32 | 66.7 | 247 | 11 | US-11-096-568A-2930 | Sequence 2930, Ap |
| 43 | 32 | 66.7 | 268 | 11 | US-11-096-568A-2927 | Sequence 2927, Ap |
| 44 | 32 | 66.7 | 297 | 11 | US-11-096-568A-17684 | Sequence 17684, A |
| 45 | 32 | 66.7 | 304 | 11 | US-11-096-568A-17683 | Sequence 17683, A |
| 46 | 32 | 66.7 | 398 | 11 | US-11-045-004-928 | Sequence 928, App |
| 47 | 32 | 66.7 | 459 | 11 | US-11-087-099-3117 | Sequence 3117, Ap |
| 48 | 32 | 66.7 | 487 | 11 | US-11-098-686-10105 | Sequence 10105, A |
| 49 | 32 | 66.7 | 627 | 11 | US-11-079-463-7758 | Sequence 7758, Ap |
| 50 | 32 | 66.7 | 2399 | 11 | US-11-052-554A-92 | Sequence 92, Appl |
| 51 | 31 | 64.6 | 15 | 9 | US-10-530-061-1670 | Sequence 1670, Ap |
| 52 | 31 | 64.6 | 15 | 9 | US-10-530-061-1676 | Sequence 1676, Ap |
| 53 | 31 | 64.6 | 214 | 11 | US-11-098-686-10210 | Sequence 10210, A |
| 54 | 31 | 64.6 | 223 | 11 | US-11-045-004-821 | Sequence 821, App |
| 55 | 31 | 64.6 | 353 | 9 | US-10-667-295-113 | Sequence 113, App |
| 56 | 31 | 64.6 | 364 | 9 | US-10-793-626-3076 | Sequence 3076, Ap |
| 57 | 31 | 64.6 | 404 | 9 | US-10-667-295-112 | Sequence 112, App |
| 58 | 31 | 64.6 | 414 | 11 | US-11-188-298-14240 | Sequence 14240, A |
| 59 | 31 | 64.6 | 446 | 9 | US-10-667-295-111 | Sequence 111, App |
| 60 | 31 | 64.6 | 464 | 11 | US-11-096-568A-30210 | Sequence 30210, A |
| 61 | 31 | 64.6 | 473 | 11 | US-11-188-298-11065 | Sequence 11065, A |
| 62 | 31 | 64.6 | 480 | 9 | US-10-915-002-299 | Sequence 299, App |
| 63 | 31 | 64.6 | 493 | 11 | US-11-188-298-6241 | Sequence 6241, Ap |
| 64 | 31 | 64.6 | 511 | 11 | US-11-096-568A-30209 | Sequence 30209, A |
| 65 | 31 | 64.6 | 512 | 11 | US-11-096-568A-30208 | Sequence 30208, A |
| 66 | 31 | 64.6 | 554 | 11 | US-11-096-568A-29624 | Sequence 29624, A |
| 67 | 31 | 64.6 | 558 | 9 | US-10-520-820-9 | Sequence 9, Appli |
| 68 | 31 | 64.6 | 581 | 11 | US-11-096-568A-29623 | Sequence 29623, A |
| 69 | 31 | 64.6 | 596 | 11 | US-11-096-568A-29622 | Sequence 29622, A |
| 70 | 31 | 64.6 | 854 | 9 | US-10-511-657-4 | Sequence 4, Appli |
| 71 | 31 | 64.6 | 1870 | 11 | US-11-079-463-9368 | Sequence 9368, Ap |
| 72 | 30 | 62.5 | 11 | 9 | US-10-530-061-490 | Sequence 490, App |
| 73 | 30 | 62.5 | 11 | 9 | US-10-530-061-786 | Sequence 786, App |
| 74 | 30 | 62.5 | 15 | 9 | US-10-530-061-1661 | Sequence 1661, Ap |
| 75 | 30 | 62.5 | 15 | 9 | US-10-530-061-1686 | Sequence 1686, Ap |
| 76 | 30 | 62.5 | 148 | 9 | US-10-530-253-22 | Sequence 22, Appl |
| 77 | 30 | 62.5 | 159 | 11 | US-11-087-099-6360 | Sequence 6360, Ap |
| 78 | 30 | 62.5 | 169 | 11 | US-11-087-099-1548 | Sequence 1548, Ap |
| 79 | 30 | 62.5 | 176 | 11 | US-11-087-099-8527 | Sequence 8527, Ap |
| 80 | 30 | 62.5 | 181 | 11 | US-11-087-099-1056 | Sequence 1056, Ap |
| 81 | 30 | 62.5 | 220 | 11 | US-11-096-568A-29600 | Sequence 29600, A |
| 82 | 30 | 62.5 | 231 | 11 | US-11-096-568A-29599 | Sequence 29599, A |
| 83 | 30 | 62.5 | 287 | 11 | US-11-124-368A-235 | Sequence 235, App |
| 84 | 30 | 62.5 | 338 | 11 | US-11-096-568A-28702 | Sequence 28702, A |
| 85 | 30 | 62.5 | 338 | 11 | US-11-096-568A-29598 | Sequence 29598, A |
| 86 | 30 | 62.5 | 456 | 11 | US-11-188-298-21690 | Sequence 21690, A |
| 87 | 30 | 62.5 | 480 | 11 | US-11-096-568A-28701 | Sequence 28701, A |
| 88 | 30 | 62.5 | 536 | 11 | US-11-096-568A-28700 | Sequence 28700, A |
| 89 | 30 | 62.5 | 847 | 11 | US-11-124-368A-234 | Sequence 234, App |
| 90 | 30 | 62.5 | 882 | 11 | US-11-079-463-10101 | Sequence 10101, A |
| 91 | 30 | 62.5 | 1215 | 11 | US-11-079-463-9852 | Sequence 9852, Ap |
| 92 | 30 | 62.5 | 1250 | 11 | US-11-123-241-10 | Sequence 10, Appl |
| 93 | 29 | 60.4 | 10 | 9 | US-10-530-061-563 | Sequence 563, App |
| 94 | 29 | 60.4 | 19 | 11 | US-11-055-163-11 | Sequence 11, Appl |

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| 95 | 29 | 60.4 | 26 | 11 | US-11-176-781-7 | Sequence 7, Appli |
| 96 | 29 | 60.4 | 30 | 9 | US-10-467-657-8812 | Sequence 8812, Ap |
| 97 | 29 | 60.4 | 63 | 11 | US-11-079-463-7492 | Sequence 7492, Ap |
| 98 | 29 | 60.4 | 114 | 11 | US-11-087-099-5827 | Sequence 5827, Ap |
| 99 | 29 | 60.4 | 116 | 11 | US-11-096-568A-5348 | Sequence 5348, Ap |
| 100 | 29 | 60.4 | 135 | 11 | US-11-096-568A-5347 | Sequence 5347, Ap |
| 101 | 29 | 60.4 | 169 | 11 | US-11-087-099-1065 | Sequence 1065, Ap |
| 102 | 29 | 60.4 | 169 | 11 | US-11-087-099-12317 | Sequence 12317, A |
| 103 | 29 | 60.4 | 170 | 11 | US-11-087-099-1385 | Sequence 1385, Ap |
| 104 | 29 | 60.4 | 177 | 11 | US-11-087-099-9378 | Sequence 9378, Ap |
| 105 | 29 | 60.4 | 240 | 9 | US-10-467-657-7756 | Sequence 7756, Ap |
| 106 | 29 | 60.4 | 271 | 11 | US-11-079-463-7460 | Sequence 7460, Ap |
| 107 | 29 | 60.4 | 310 | 11 | US-11-055-163-7 | Sequence 7, Appli |
| 108 | 29 | 60.4 | 310 | 11 | US-11-055-163-9 | Sequence 9, Appli |
| 109 | 29 | 60.4 | 311 | 11 | US-11-096-568A-31261 | Sequence 31261, A |
| 110 | 29 | 60.4 | 314 | 11 | US-11-096-568A-18991 | Sequence 18991, A |
| 111 | 29 | 60.4 | 323 | 11 | US-11-087-099-2157 | Sequence 2157, Ap |
| 112 | 29 | 60.4 | 324 | 11 | US-11-079-463-10388 | Sequence 10388, A |
| 113 | 29 | 60.4 | 338 | 11 | US-11-096-568A-31260 | Sequence 31260, A |
| 114 | 29 | 60.4 | 341 | 11 | US-11-079-463-7141 | Sequence 7141, Ap |
| 115 | 29 | 60.4 | 344 | 11 | US-11-055-163-6 | Sequence 6, Appli |
| 116 | 29 | 60.4 | 344 | 11 | US-11-055-163-8 | Sequence 8, Appli |
| 117 | 29 | 60.4 | 354 | 11 | US-11-079-463-9185 | Sequence 9185, Ap |
| 118 | 29 | 60.4 | 370 | 11 | US-11-096-568A-18824 | Sequence 18824, A |
| 119 | 29 | 60.4 | 391 | 11 | US-11-188-298-15313 | Sequence 15313, A |
| 120 | 29 | 60.4 | 410 | 11 | US-11-096-568A-18823 | Sequence 18823, A |
| 121 | 29 | 60.4 | 412 | 11 | US-11-096-568A-23272 | Sequence 23272, A |
| 122 | 29 | 60.4 | 413 | 11 | US-11-096-568A-31259 | Sequence 31259, A |
| 123 | 29 | 60.4 | 443 | 11 | US-11-096-568A-18990 | Sequence 18990, A |
| 124 | 29 | 60.4 | 473 | 9 | US-10-131-826A-382 | Sequence 382, App |
| 125 | 29 | 60.4 | 473 | 9 | US-10-973-115B-382 | Sequence 382, App |
| 126 | 29 | 60.4 | 473 | 9 | US-10-218-784-128 | Sequence 128, App |
| 127 | 29 | 60.4 | 473 | 9 | US-10-219-061-128 | Sequence 128, App |
| 128 | 29 | 60.4 | 473 | 9 | US-10-219-062-128 | Sequence 128, App |
| 129 | 29 | 60.4 | 473 | 9 | US-10-219-064-128 | Sequence 128, App |
| 130 | 29 | 60.4 | 473 | 9 | US-10-233-134-128 | Sequence 128, App |
| 131 | 29 | 60.4 | 473 | 9 | US-10-216-161A-400 | Sequence 400, App |
| 132 | 29 | 60.4 | 473 | 9 | US-10-137-873A-382 | Sequence 382, App |
| 133 | 29 | 60.4 | 473 | 9 | US-10-152-370-382 | Sequence 382, App |
| 134 | 29 | 60.4 | 473 | 11 | US-11-290-153-382 | Sequence 382, App |
| 135 | 29 | 60.4 | 477 | 11 | US-11-096-568A-27864 | Sequence 27864, A |
| 136 | 29 | 60.4 | 496 | 11 | US-11-096-568A-27863 | Sequence 27863, A |
| 137 | 29 | 60.4 | 498 | 11 | US-11-079-463-5414 | Sequence 5414, Ap |
| 138 | 29 | 60.4 | 499 | 11 | US-11-096-568A-27862 | Sequence 27862, A |
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| 142 | 29 | 60.4 | 574 | 11 | US-11-188-298-1848 | Sequence 1848, Ap |
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| 144 | 29 | 60.4 | 577 | 11 | US-11-188-298-753 | Sequence 753, App |
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| 147 | 29 | 60.4 | 704 | 11 | US-11-188-298-22037 | Sequence 22037, A |
| 148 | 29 | 60.4 | 756 | 11 | US-11-087-099-10722 | Sequence 10722, A |
| 149 | 29 | 60.4 | 791 | 11 | US-11-087-099-8040 | Sequence 8040, Ap |
| 150 | 29 | 60.4 | 1249 | 11 | US-11-288-493-4 | Sequence 4, Appli |
| 151 | 29 | 60.4 | 1288 | 11 | US-11-052-554A-93 | Sequence 93, Appl |
| 152 | 29 | 60.4 | 1296 | 9 | US-10-615-668-3 | Sequence 3, Appli |
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| 154 | 28.5 | 59.4 | 423 | 11 | US-11-188-298-16406 | Sequence 16406, A |
| 155 | 28 | 58.3 | 10 | 9 | US-10-530-061-519 | Sequence 519, App |
| 156 | 28 | 58.3 | 110 | 11 | US-11-188-298-17479 | Sequence 17479, A |
| 157 | 28 | 58.3 | 119 | 11 | US-11-045-004-2249 | Sequence 2249, Ap |
| 158 | 28 | 58.3 | 126 | 11 | US-11-087-099-10941 | Sequence 10941, A |
| 159 | 28 | 58.3 | 165 | 11 | US-11-079-463-7537 | Sequence 7537, Ap |
| 160 | 28 | 58.3 | 178 | 11 | US-11-087-099-2405 | Sequence 2405, Ap |
| 161 | 28 | 58.3 | 181 | 11 | US-11-087-099-1383 | Sequence 1383, Ap |
| 162 | 28 | 58.3 | 183 | 9 | US-10-467-657-6906 | Sequence 6906, Ap |
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| 164 | 28 | 58.3 | 191 | 11 | US-11-096-568A-21322 | Sequence 21322, A |
| 165 | 28 | 58.3 | 200 | 9 | US-10-467-657-708 | Sequence 708, App |
| 166 | 28 | 58.3 | 202 | 11 | US-11-096-568A-16650 | Sequence 16650, A |
| 167 | 28 | 58.3 | 202 | 11 | US-11-096-568A-24571 | Sequence 24571, A |
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| 222 | 28 | 58.3 | 444 | 11 | US-11-172-740-461 | Sequence 461, App |
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| 229 | 28 | 58.3 | 445 | 11 | US-11-172-740-467 | Sequence 467, App |
| 230 | 28 | 58.3 | 445 | 11 | US-11-172-740-469 | Sequence 469, App |
| 231 | 28 | 58.3 | 445 | 11 | US-11-172-740-708 | Sequence 708, App |
| 232 | 28 | 58.3 | 445 | 11 | US-11-172-740-709 | Sequence 709, App |
| 233 | 28 | 58.3 | 445 | 11 | US-11-172-740-711 | Sequence 711, App |
| 234 | 28 | 58.3 | 445 | 11 | US-11-172-740-714 | Sequence 714, App |
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| 237 | 28 | 58.3 | 447 | 11 | US-11-172-740-466 | Sequence 466, App |
| 238 | 28 | 58.3 | 447 | 11 | US-11-172-740-468 | Sequence 468, App |
| 239 | 28 | 58.3 | 447 | 11 | US-11-172-740-470 | Sequence 470, App |
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| 247 | 28 | 58.3 | 521 | 11 | US-11-135-603-1 | Sequence 1, Appli |
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| 257 | 28 | 58.3 | 754 | 11 | US-11-188-298-19237 | Sequence 19237, A |
| 258 | 28 | 58.3 | 758 | 11 | US-11-188-298-14671 | Sequence 14671, A |
| 259 | 28 | 58.3 | 797 | 9 | US-10-995-561-802 | Sequence 802, App |
| 260 | 28 | 58.3 | 797 | 11 | US-11-218-020-13 | Sequence 13, Appl |
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| 267 | 27 | 56.2 | 15 | 9 | US-10-530-061-1697 | Sequence 1697, Ap |
| 268 | 27 | 56.2 | 23 | 9 | US-10-986-501-265 | Sequence 265, App |
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| 274 | 27 | 56.2 | 127 | 9 | US-10-467-657-6066 | Sequence 6066, Ap |
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| 279 | 27 | 56.2 | 163 | 11 | US-11-229-769-190 | Sequence 190, App |
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| 352 | 27 | 56.2 | 417 | 9 | US-10-195-888-452 | Sequence 452, App |
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| 357 | 27 | 56.2 | 428 | 9 | US-10-973-115B-292 | Sequence 292, App |
| 358 | 27 | 56.2 | 428 | 9 | US-10-137-873A-292 | Sequence 292, App |
| 359 | 27 | 56.2 | 428 | 9 | US-10-152-370-292 | Sequence 292, App |
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| 379 | 27 | 56.2 | 429 | 9 | US-10-947-612-16 | Sequence 16, Appl |
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| 383 | 27 | 56.2 | 429 | 9 | US-10-947-612-20 | Sequence 20, Appl |
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| 390 | 27 | 56.2 | 429 | 9 | US-10-947-612-27 | Sequence 27, Appl |
| 391 | 27 | 56.2 | 429 | 9 | US-10-947-612-28 | Sequence 28, Appl |
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| 393 | 27 | 56.2 | 442 | 11 | US-11-079-463-7039 | Sequence 7039, Ap |
| 394 | 27 | 56.2 | 443 | 9 | US-10-194-487-516 | Sequence 516, App |
| 395 | 27 | 56.2 | 443 | 9 | US-10-195-883-516 | Sequence 516, App |
| 396 | 27 | 56.2 | 443 | 9 | US-10-195-888-516 | Sequence 516, App |
| 397 | 27 | 56.2 | 443 | 9 | US-10-195-889-516 | Sequence 516, App |
| 398 | 27 | 56.2 | 443 | 11 | US-11-072-512-3564 | Sequence 3564, Ap |
| 399 | 27 | 56.2 | 460 | 11 | US-11-096-568A-6862 | Sequence 6862, Ap |
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| 406 | 27 | 56.2 | 524 | 9 | US-10-506-454-271 | Sequence 271, App |
| 407 | 27 | 56.2 | 525 | 9 | US-10-506-454-687 | Sequence 687, App |
| 408 | 27 | 56.2 | 526 | 11 | US-11-096-568A-34163 | Sequence 34163, A |
| 409 | 27 | 56.2 | 527 | 9 | US-10-886-504-7 | Sequence 7, Appli |
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| 411 | 27 | 56.2 | 527 | 9 | US-10-886-504-9 | Sequence 9, Appli |
| 412 | 27 | 56.2 | 527 | 9 | US-10-886-504-10 | Sequence 10, Appl |
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| 414 | 27 | 56.2 | 527 | 9 | US-10-886-505-8 | Sequence 8, Appli |
| 415 | 27 | 56.2 | 527 | 9 | US-10-886-505-9 | Sequence 9, Appli |
| 416 | 27 | 56.2 | 527 | 9 | US-10-886-505-10 | Sequence 10, Appl |
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| 423 | 27 | 56.2 | 527 | 9 | US-10-947-612-9 | Sequence 9, Appli |
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| 427 | 27 | 56.2 | 530 | 9 | US-10-886-505-1 | Sequence 1, Appli |
| 428 | 27 | 56.2 | 530 | 9 | US-10-886-527-1 | Sequence 1, Appli |
| 429 | 27 | 56.2 | 530 | 9 | US-10-947-612-1 | Sequence 1, Appli |
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| 433 | 27 | 56.2 | 548 | 9 | US-10-886-527-11 | Sequence 11, Appl |
| 434 | 27 | 56.2 | 548 | 9 | US-10-947-612-11 | Sequence 11, Appl |
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| 436 | 27 | 56.2 | 551 | 9 | US-10-886-505-5 | Sequence 5, Appli |
| 437 | 27 | 56.2 | 551 | 9 | US-10-886-527-5 | Sequence 5, Appli |
| 438 | 27 | 56.2 | 551 | 9 | US-10-947-612-5 | Sequence 5, Appli |
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| 455 | 27 | 56.2 | 851 | 11 | US-11-096-568A-28685 | Sequence 28685, A |
| 456 | 27 | 56.2 | 862 | 11 | US-11-096-568A-28684 | Sequence 28684, A |
| 457 | 27 | 56.2 | 949 | 9 | US-10-506-454-104 | Sequence 104, App |
| 458 | 27 | 56.2 | 1078 | 11 | US-11-165-211-43 | Sequence 43, Appl |
| 459 | 27 | 56.2 | 1078 | 11 | US-11-165-226-53 | Sequence 53, Appl |
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| 474 | 26 | 54.2 | 13 | 11 | US-11-129-741-694 | Sequence 694, App |
| 475 | 26 | 54.2 | 13 | 11 | US-11-129-741-3694 | Sequence 3694, Ap |
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| 479 | 26 | 54.2 | 60 | 11 | US-11-031-482-28 | Sequence 28, Appl |
| 480 | 26 | 54.2 | 68 | 9 | US-10-467-657-6568 | Sequence 6568, Ap |
| 481 | 26 | 54.2 | 76 | 11 | US-11-087-099-2119 | Sequence 2119, Ap |
| 482 | 26 | 54.2 | 93 | 11 | US-11-172-740-682 | Sequence 682, App |
| 483 | 26 | 54.2 | 112 | 11 | US-11-172-740-683 | Sequence 683, App |
| 484 | 26 | 54.2 | 113 | 11 | US-11-172-740-696 | Sequence 696, App |
| 485 | 26 | 54.2 | 114 | 11 | US-11-072-512-3819 | Sequence 3819, Ap |
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| 489 | 26 | 54.2 | 132 | 11 | US-11-172-740-694 | Sequence 694, App |
| 490 | 26 | 54.2 | 143 | 9 | US-10-821-234-1122 | Sequence 1122, Ap |
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| 492 | 26 | 54.2 | 158 | 11 | US-11-087-099-2976 | Sequence 2976, Ap |
| 493 | 26 | 54.2 | 158 | 11 | US-11-087-099-4468 | Sequence 4468, Ap |
| 494 | 26 | 54.2 | 158 | 11 | US-11-087-099-8076 | Sequence 8076, Ap |
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| 506 | 26 | 54.2 | 202 | 11 | US-11-188-298-19374 | Sequence 19374, A |
| 507 | 26 | 54.2 | 214 | 11 | US-11-188-298-1446 | Sequence 1446, Ap |
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| 528 | 26 | 54.2 | 314 | 11 | US-11-156-084-296 | Sequence 296, App |
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| 531 | 26 | 54.2 | 323 | 11 | US-11-188-298-6997 | Sequence 6997, Ap |
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| 608 | 26 | 54.2 | 448 | 11 | US-11-079-463-7815 | Sequence 7815, Ap |
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| 646 | 26 | 54.2 | 542 | 11 | US-11-087-099-6916 | Sequence 6916, Ap |
| 647 | 26 | 54.2 | 544 | 11 | US-11-079-463-9804 | Sequence 9804, Ap |
| 648 | 26 | 54.2 | 551 | 9 | US-10-520-655-1 | Sequence 1, Appli |
| 649 | 26 | 54.2 | 554 | 11 | US-11-087-099-3239 | Sequence 3239, Ap |
| 650 | 26 | 54.2 | 556 | 11 | US-11-188-298-16245 | Sequence 16245, A |
| 651 | 26 | 54.2 | 565 | 11 | US-11-188-298-13487 | Sequence 13487, A |
| 652 | 26 | 54.2 | 565 | 11 | US-11-188-298-22261 | Sequence 22261, A |
| 653 | 26 | 54.2 | 566 | 9 | US-10-506-454-326 | Sequence 326, App |
| 654 | 26 | 54.2 | 569 | 11 | US-11-188-298-7206 | Sequence 7206, Ap |
| 655 | 26 | 54.2 | 574 | 9 | US-10-330-773-488 | Sequence 488, App |
| 656 | 26 | 54.2 | 578 | 11 | US-11-188-298-6599 | Sequence 6599, Ap |
| 657 | 26 | 54.2 | 580 | 11 | US-11-188-298-1066 | Sequence 1066, Ap |
| 658 | 26 | 54.2 | 592 | 11 | US-11-135-855-24 | Sequence 24, Appl |
| 659 | 26 | 54.2 | 597 | 9 | US-10-517-939-348 | Sequence 348, App |
| 660 | 26 | 54.2 | 607 | 11 | US-11-188-298-16279 | Sequence 16279, A |
| 661 | 26 | 54.2 | 608 | 9 | US-10-703-799B-36 | Sequence 36, Appl |
| 662 | 26 | 54.2 | 634 | 11 | US-11-188-298-14644 | Sequence 14644, A |
| 663 | 26 | 54.2 | 690 | 11 | US-11-188-298-20220 | Sequence 20220, A |
| 664 | 26 | 54.2 | 700 | 11 | US-11-188-298-18380 | Sequence 18380, A |
| 665 | 26 | 54.2 | 712 | 11 | US-11-031-737A-5 | Sequence 5, Appli |
| 666 | 26 | 54.2 | 712 | 11 | US-11-031-482-5 | Sequence 5, Appli |
| 667 | 26 | 54.2 | 729 | 11 | US-11-096-568A-27562 | Sequence 27562, A |
| 668 | 26 | 54.2 | 733 | 11 | US-11-096-568A-24028 | Sequence 24028, A |
| 669 | 26 | 54.2 | 756 | 11 | US-11-188-743-20 | Sequence 20, Appl |
| 670 | 26 | 54.2 | 756 | 11 | US-11-183-294-22 | Sequence 22, Appl |
| 671 | 26 | 54.2 | 756 | 11 | US-11-235-037-15 | Sequence 15, Appl |
| 672 | 26 | 54.2 | 759 | 11 | US-11-096-568A-24027 | Sequence 24027, A |
| 673 | 26 | 54.2 | 760 | 11 | US-11-087-099-1634 | Sequence 1634, Ap |
| 674 | 26 | 54.2 | 764 | 11 | US-11-096-568A-24026 | Sequence 24026, A |
| 675 | 26 | 54.2 | 778 | 11 | US-11-264-096-912 | Sequence 912, App |
| 676 | 26 | 54.2 | 798 | 11 | US-11-096-568A-27561 | Sequence 27561, A |
| 677 | 26 | 54.2 | 801 | 11 | US-11-200-296B-69 | Sequence 69, Appl |
| 678 | 26 | 54.2 | 821 | 9 | US-10-523-328-17 | Sequence 17, Appl |

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| 679 | 26 | 54.2 | 823 | 9 | US-10-467-657-2526 | Sequence 2526, Ap |
| 680 | 26 | 54.2 | 842 | 11 | US-11-188-298-2502 | Sequence 2502, Ap |
| 681 | 26 | 54.2 | 882 | 11 | US-11-072-512-3543 | Sequence 3543, Ap |
| 682 | 26 | 54.2 | 884 | 11 | US-11-207-078-222 | Sequence 222, App |
| 683 | 26 | 54.2 | 888 | 11 | US-11-031-737A-2 | Sequence 2, Appli |
| 684 | 26 | 54.2 | 888 | 11 | US-11-031-482-2 | Sequence 2, Appli |
| 685 | 26 | 54.2 | 892 | 11 | US-11-031-737A-9 | Sequence 9, Appli |
| 686 | 26 | 54.2 | 892 | 11 | US-11-031-482-9 | Sequence 9, Appli |
| 687 | 26 | 54.2 | 892 | 11 | US-11-096-568A-27560 | Sequence 27560, A |
| 688 | 26 | 54.2 | 917 | 11 | US-11-087-099-1381 | Sequence 1381, Ap |
| 689 | 26 | 54.2 | 917 | 11 | US-11-188-298-1393 | Sequence 1393, Ap |
| 690 | 26 | 54.2 | 919 | 11 | US-11-188-298-10380 | Sequence 10380, A |
| 691 | 26 | 54.2 | 975 | 11 | US-11-096-568A-27943 | Sequence 27943, A |
| 692 | 26 | 54.2 | 983 | 11 | US-11-096-568A-27942 | Sequence 27942, A |
| 693 | 26 | 54.2 | 1075 | 11 | US-11-100-640-12 | Sequence 12, Appl |
| 694 | 26 | 54.2 | 1085 | 11 | US-11-079-463-5230 | Sequence 5230, Ap |
| 695 | 26 | 54.2 | 1087 | 11 | US-11-096-568A-27941 | Sequence 27941, A |
| 696 | 26 | 54.2 | 1123 | 9 | US-10-915-002-245 | Sequence 245, App |
| 697 | 26 | 54.2 | 1203 | 11 | US-11-096-568A-33183 | Sequence 33183, A |
| 698 | 26 | 54.2 | 1220 | 11 | US-11-079-463-7103 | Sequence 7103, Ap |
| 699 | 26 | 54.2 | 1372 | 11 | US-11-096-568A-33182 | Sequence 33182, A |
| 700 | 26 | 54.2 | 1386 | 9 | US-10-517-939-284 | Sequence 284, App |
| 701 | 26 | 54.2 | 1395 | 11 | US-11-096-568A-33181 | Sequence 33181, A |
| 702 | 26 | 54.2 | 1453 | 9 | US-10-784-004-344 | Sequence 344, App |
| 703 | 26 | 54.2 | 1453 | 9 | US-10-784-004-434 | Sequence 434, App |
| 704 | 26 | 54.2 | 1453 | 9 | US-10-784-004-918 | Sequence 918, App |
| 705 | 26 | 54.2 | 1453 | 9 | US-10-784-004-950 | Sequence 950, App |
| 706 | 26 | 54.2 | 1655 | 9 | US-10-784-004-668 | Sequence 668, App |
| 707 | 26 | 54.2 | 1655 | 9 | US-10-784-004-1064 | Sequence 1064, Ap |
| 708 | 26 | 54.2 | 1676 | 11 | US-11-058-134A-102 | Sequence 102, App |
| 709 | 26 | 54.2 | 1694 | 11 | US-11-052-554A-83 | Sequence 83, Appl |
| 710 | 26 | 54.2 | 1725 | 9 | US-10-784-004-659 | Sequence 659, App |
| 711 | 26 | 54.2 | 1725 | 9 | US-10-784-004-1058 | Sequence 1058, Ap |
| 712 | 26 | 54.2 | 1795 | 9 | US-10-784-004-662 | Sequence 662, App |
| 713 | 26 | 54.2 | 1795 | 9 | US-10-784-004-1061 | Sequence 1061, Ap |
| 714 | 26 | 54.2 | 1935 | 9 | US-10-784-004-311 | Sequence 311, App |
| 715 | 26 | 54.2 | 1935 | 9 | US-10-784-004-329 | Sequence 329, App |
| 716 | 26 | 54.2 | 1935 | 9 | US-10-784-004-331 | Sequence 331, App |
| 717 | 26 | 54.2 | 1935 | 9 | US-10-784-004-440 | Sequence 440, App |
| 718 | 26 | 54.2 | 1935 | 9 | US-10-784-004-633 | Sequence 633, App |
| 719 | 26 | 54.2 | 1935 | 9 | US-10-784-004-650 | Sequence 650, App |
| 720 | 26 | 54.2 | 1935 | 9 | US-10-784-004-652 | Sequence 652, App |
| 721 | 26 | 54.2 | 1935 | 9 | US-10-784-004-757 | Sequence 757, App |
| 722 | 26 | 54.2 | 1935 | 9 | US-10-784-004-781 | Sequence 781, App |
| 723 | 26 | 54.2 | 1935 | 9 | US-10-784-004-899 | Sequence 899, App |
| 724 | 26 | 54.2 | 1935 | 9 | US-10-784-004-912 | Sequence 912, App |
| 725 | 26 | 54.2 | 1935 | 9 | US-10-784-004-914 | Sequence 914, App |
| 726 | 26 | 54.2 | 1935 | 9 | US-10-784-004-1040 | Sequence 1040, Ap |
| 727 | 26 | 54.2 | 1935 | 9 | US-10-784-004-1053 | Sequence 1053, Ap |
| 728 | 26 | 54.2 | 1935 | 9 | US-10-784-004-1055 | Sequence 1055, Ap |
| 729 | 26 | 54.2 | 1935 | 9 | US-10-784-004-1110 | Sequence 1110, Ap |
| 730 | 26 | 54.2 | 1935 | 9 | US-10-784-004-1166 | Sequence 1166, Ap |
| 731 | 26 | 54.2 | 1935 | 9 | US-10-784-004-1211 | Sequence 1211, Ap |
| 732 | 26 | 54.2 | 1938 | 9 | US-10-784-004-403 | Sequence 403, App |
| 733 | 26 | 54.2 | 1938 | 9 | US-10-784-004-458 | Sequence 458, App |
| 734 | 26 | 54.2 | 1938 | 9 | US-10-784-004-469 | Sequence 469, App |
| 735 | 26 | 54.2 | 1985 | 9 | US-10-501-035-218 | Sequence 218, App |
| 736 | 26 | 54.2 | 2005 | 9 | US-10-784-004-660 | Sequence 660, App |
| 737 | 26 | 54.2 | 2005 | 9 | US-10-784-004-1059 | Sequence 1059, Ap |
| 738 | 26 | 54.2 | 2902 | 11 | US-11-052-554A-91 | Sequence 91, Appl |
| 739 | 26 | 54.2 | 4594 | 9 | US-10-784-004-704 | Sequence 704, App |
| 740 | 26 | 54.2 | 4644 | 9 | US-10-784-004-383 | Sequence 383, App |
| 741 | 25.5 | 53.1 | 230 | 11 | US-11-055-822-1068 | Sequence 1068, Ap |
| 742 | 25.5 | 53.1 | 445 | 11 | US-11-146-428-110 | Sequence 110, App |
| 743 | 25.5 | 53.1 | 476 | 11 | US-11-096-568A-29115 | Sequence 29115, A |
| 744 | 25.5 | 53.1 | 701 | 11 | US-11-055-822-1066 | Sequence 1066, Ap |
| 745 | 25 | 52.1 | 9 | 9 | US-10-530-061-800 | Sequence 800, App |
| 746 | 25 | 52.1 | 10 | 9 | US-10-530-061-477 | Sequence 477, App |
| 747 | 25 | 52.1 | 10 | 9 | US-10-530-061-478 | Sequence 478, App |
| 748 | 25 | 52.1 | 10 | 9 | US-10-530-061-500 | Sequence 500, App |
| 749 | 25 | 52.1 | 11 | 9 | US-10-530-061-494 | Sequence 494, App |
| 750 | 25 | 52.1 | 12 | 11 | US-11-016-706-46 | Sequence 46, Appl |
| 751 | 25 | 52.1 | 60 | 7 | US-09-978-360A-588 | Sequence 588, App |
| 752 | 25 | 52.1 | 60 | 9 | US-10-475-075-870 | Sequence 870, App |
| 753 | 25 | 52.1 | 75 | 11 | US-11-264-096-2001 | Sequence 2001, Ap |
| 754 | 25 | 52.1 | 75 | 11 | US-11-264-096-2002 | Sequence 2002, Ap |
| 755 | 25 | 52.1 | 94 | 9 | US-10-467-657-4730 | Sequence 4730, Ap |
| 756 | 25 | 52.1 | 96 | 9 | US-10-467-657-8364 | Sequence 8364, Ap |
| 757 | 25 | 52.1 | 101 | 9 | US-10-467-657-6212 | Sequence 6212, Ap |
| 758 | 25 | 52.1 | 103 | 11 | US-11-096-568A-2029 | Sequence 2029, Ap |
| 759 | 25 | 52.1 | 109 | 11 | US-11-087-099-2633 | Sequence 2633, Ap |
| 760 | 25 | 52.1 | 110 | 9 | US-10-467-657-8847 | Sequence 8847, Ap |
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| 762 | 25 | 52.1 | 120 | 9 | US-10-467-657-6982 | Sequence 6982, Ap |
| 763 | 25 | 52.1 | 120 | 9 | US-10-467-657-7938 | Sequence 7938, Ap |
| 764 | 25 | 52.1 | 121 | 11 | US-11-049-536-98 | Sequence 98, Appl |
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| 766 | 25 | 52.1 | 123 | 9 | US-10-467-657-6978 | Sequence 6978, Ap |
| 767 | 25 | 52.1 | 124 | 9 | US-10-467-657-4868 | Sequence 4868, Ap |
| 768 | 25 | 52.1 | 139 | 9 | US-10-821-234-1674 | Sequence 1674, Ap |
| 769 | 25 | 52.1 | 139 | 11 | US-11-072-512-2633 | Sequence 2633, Ap |
| 770 | 25 | 52.1 | 141 | 11 | US-11-087-099-334 | Sequence 334, App |
| 771 | 25 | 52.1 | 142 | 11 | US-11-096-568A-2028 | Sequence 2028, Ap |
| 772 | 25 | 52.1 | 142 | 11 | US-11-045-004-1070 | Sequence 1070, Ap |
| 773 | 25 | 52.1 | 144 | 11 | US-11-087-099-2162 | Sequence 2162, Ap |
| 774 | 25 | 52.1 | 147 | 11 | US-11-045-004-431 | Sequence 431, App |
| 775 | 25 | 52.1 | 153 | 8 | US-10-370-959-70 | Sequence 70, Appl |
| 776 | 25 | 52.1 | 154 | 11 | US-11-188-298-7369 | Sequence 7369, Ap |
| 777 | 25 | 52.1 | 155 | 9 | US-10-530-253-23 | Sequence 23, Appl |
| 778 | 25 | 52.1 | 157 | 11 | US-11-096-568A-33400 | Sequence 33400, A |
| 779 | 25 | 52.1 | 160 | 9 | US-10-467-657-6486 | Sequence 6486, Ap |
| 780 | 25 | 52.1 | 160 | 11 | US-11-087-099-5121 | Sequence 5121, Ap |
| 781 | 25 | 52.1 | 160 | 11 | US-11-087-099-5242 | Sequence 5242, Ap |
| 782 | 25 | 52.1 | 161 | 11 | US-11-087-099-5561 | Sequence 5561, Ap |
| 783 | 25 | 52.1 | 161 | 11 | US-11-079-463-9055 | Sequence 9055, Ap |
| 784 | 25 | 52.1 | 162 | 11 | US-11-188-298-8489 | Sequence 8489, Ap |
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| 786 | 25 | 52.1 | 166 | 11 | US-11-132-722-55 | Sequence 55, Appl |
| 787 | 25 | 52.1 | 166 | 11 | US-11-087-099-3702 | Sequence 3702, Ap |
| 788 | 25 | 52.1 | 166 | 11 | US-11-087-099-11137 | Sequence 11137, A |
| 789 | 25 | 52.1 | 166 | 11 | US-11-198-765-86 | Sequence 86, Appl |
| 790 | 25 | 52.1 | 167 | 11 | US-11-087-099-2457 | Sequence 2457, Ap |
| 791 | 25 | 52.1 | 167 | 11 | US-11-087-099-10162 | Sequence 10162, A |
| 792 | 25 | 52.1 | 167 | 11 | US-11-087-099-12093 | Sequence 12093, A |
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| 794 | 25 | 52.1 | 168 | 11 | US-11-087-099-971 | Sequence 971, App |
| 795 | 25 | 52.1 | 168 | 11 | US-11-087-099-2614 | Sequence 2614, Ap |
| 796 | 25 | 52.1 | 168 | 11 | US-11-087-099-5849 | Sequence 5849, Ap |
| 797 | 25 | 52.1 | 168 | 11 | US-11-087-099-6373 | Sequence 6373, Ap |
| 798 | 25 | 52.1 | 168 | 11 | US-11-087-099-7749 | Sequence 7749, Ap |
| 799 | 25 | 52.1 | 168 | 11 | US-11-087-099-8054 | Sequence 8054, Ap |
| 800 | 25 | 52.1 | 168 | 11 | US-11-096-568A-20913 | Sequence 20913, A |
| 801 | 25 | 52.1 | 168 | 11 | US-11-097-292-6 | Sequence 6, Appli |
| 802 | 25 | 52.1 | 169 | 11 | US-11-087-099-10511 | Sequence 10511, A |
| 803 | 25 | 52.1 | 169 | 11 | US-11-172-740-266 | Sequence 266, App |
| 804 | 25 | 52.1 | 171 | 11 | US-11-188-298-11096 | Sequence 11096, A |
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| 806 | 25 | 52.1 | 173 | 11 | US-11-087-099-5501 | Sequence 5501, Ap |
| 807 | 25 | 52.1 | 175 | 11 | US-11-188-298-12308 | Sequence 12308, A |
| 808 | 25 | 52.1 | 176 | 11 | US-11-096-568A-1307 | Sequence 1307, Ap |
| 809 | 25 | 52.1 | 176 | 11 | US-11-172-740-1133 | Sequence 1133, Ap |
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| 811 | 25 | 52.1 | 181 | 11 | US-11-096-568A-22099 | Sequence 22099, A |
| 812 | 25 | 52.1 | 183 | 11 | US-11-087-099-6392 | Sequence 6392, Ap |
| 813 | 25 | 52.1 | 183 | 11 | US-11-079-463-7112 | Sequence 7112, Ap |
| 814 | 25 | 52.1 | 186 | 11 | US-11-087-099-1765 | Sequence 1765, Ap |
| 815 | 25 | 52.1 | 186 | 11 | US-11-087-099-10952 | Sequence 10952, A |
| 816 | 25 | 52.1 | 189 | 11 | US-11-147-492-26 | Sequence 26, Appl |
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| 818 | 25 | 52.1 | 190 | 11 | US-11-188-298-21664 | Sequence 21664, A |
| 819 | 25 | 52.1 | 202 | 11 | US-11-096-568A-33399 | Sequence 33399, A |
| 820 | 25 | 52.1 | 205 | 11 | US-11-087-099-1175 | Sequence 1175, Ap |
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| 824 | 25 | 52.1 | 206 | 11 | US-11-188-298-470 | Sequence 470, App |

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| 825 | 25 | 52.1 | 206 | 11 | US-11-188-298-10048 | Sequence 10048, A |
| 826 | 25 | 52.1 | 206 | 11 | US-11-188-298-18342 | Sequence 18342, A |
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| 842 | 25 | 52.1 | 240 | 9 | US-10-506-454-1172 | Sequence 1172, Ap |
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| 845 | 25 | 52.1 | 244 | 11 | US-11-087-099-3310 | Sequence 3310, Ap |
| 846 | 25 | 52.1 | 246 | 11 | US-11-087-099-863 | Sequence 863, App |
| 847 | 25 | 52.1 | 246 | 11 | US-11-096-568A-16070 | Sequence 16070, A |
| 848 | 25 | 52.1 | 246 | 11 | US-11-096-568A-20912 | Sequence 20912, A |
| 849 | 25 | 52.1 | 247 | 9 | US-10-506-454-1346 | Sequence 1346, Ap |
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| 851 | 25 | 52.1 | 250 | 11 | US-11-096-568A-10378 | Sequence 10378, A |
| 852 | 25 | 52.1 | 252 | 11 | US-11-087-099-7942 | Sequence 7942, Ap |
| 853 | 25 | 52.1 | 253 | 11 | US-11-096-568A-29971 | Sequence 29971, A |
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| 855 | 25 | 52.1 | 257 | 11 | US-11-188-298-20297 | Sequence 20297, A |
| 856 | 25 | 52.1 | 262 | 11 | US-11-087-099-1167 | Sequence 1167, Ap |
| 857 | 25 | 52.1 | 262 | 11 | US-11-096-568A-11852 | Sequence 11852, A |
| 858 | 25 | 52.1 | 262 | 11 | US-11-188-298-1192 | Sequence 1192, Ap |
| 859 | 25 | 52.1 | 263 | 11 | US-11-096-568A-15461 | Sequence 15461, A |
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| 862 | 25 | 52.1 | 268 | 9 | US-10-644-807-388 | Sequence 388, App |
| 863 | 25 | 52.1 | 268 | 11 | US-11-188-298-5766 | Sequence 5766, Ap |
| 864 | 25 | 52.1 | 270 | 11 | US-11-045-004-2507 | Sequence 2507, Ap |
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| 866 | 25 | 52.1 | 274 | 11 | US-11-045-004-1009 | Sequence 1009, Ap |
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| 868 | 25 | 52.1 | 281 | 11 | US-11-188-298-6447 | Sequence 6447, Ap |
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| 872 | 25 | 52.1 | 289 | 11 | US-11-087-099-5882 | Sequence 5882, Ap |
| 873 | 25 | 52.1 | 292 | 11 | US-11-045-004-2829 | Sequence 2829, Ap |
| 874 | 25 | 52.1 | 294 | 11 | US-11-098-686-11075 | Sequence 11075, A |
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| 879 | 25 | 52.1 | 297 | 11 | US-11-045-004-2082 | Sequence 2082, Ap |
| 880 | 25 | 52.1 | 298 | 11 | US-11-124-367A-416 | Sequence 416, App |
| 881 | 25 | 52.1 | 298 | 11 | US-11-124-367A-417 | Sequence 417, App |
| 882 | 25 | 52.1 | 298 | 11 | US-11-124-367A-419 | Sequence 419, App |
| 883 | 25 | 52.1 | 298 | 11 | US-11-096-568A-10377 | Sequence 10377, A |
| 884 | 25 | 52.1 | 300 | 11 | US-11-079-463-7877 | Sequence 7877, Ap |
| 885 | 25 | 52.1 | 300 | 11 | US-11-188-298-4053 | Sequence 4053, Ap |
| 886 | 25 | 52.1 | 301 | 11 | US-11-096-568A-8915 | Sequence 8915, Ap |
| 887 | 25 | 52.1 | 301 | 11 | US-11-096-568A-15460 | Sequence 15460, A |
| 888 | 25 | 52.1 | 301 | 11 | US-11-188-298-20034 | Sequence 20034, A |
| 889 | 25 | 52.1 | 302 | 11 | US-11-096-568A-10376 | Sequence 10376, A |
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| 891 | 25 | 52.1 | 303 | 11 | US-11-188-298-17765 | Sequence 17765, A |
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| 966 | 25 | 52.1 | 341 | 11 | US-11-188-298-18572 | Sequence 18572, A |
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| 982 | 25 | 52.1 | 356 | 11 | US-11-087-099-12083 | Sequence 12083, A |
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| 986 | 25 | 52.1 | 358 | 11 | US-11-188-298-4357 | Sequence 4357, Ap |
| 987 | 25 | 52.1 | 359 | 11 | US-11-082-389-344 | Sequence 344, App |
| 988 | 25 | 52.1 | 360 | 11 | US-11-096-568A-4697 | Sequence 4697, Ap |
| 989 | 25 | 52.1 | 363 | 11 | US-11-096-568A-22003 | Sequence 22003, A |
| 990 | 25 | 52.1 | 366 | 11 | US-11-096-568A-6733 | Sequence 6733, Ap |
| 991 | 25 | 52.1 | 366 | 11 | US-11-096-568A-11751 | Sequence 11751, A |
| 992 | 25 | 52.1 | 367 | 11 | US-11-096-568A-6118 | Sequence 6118, Ap |
| 993 | 25 | 52.1 | 374 | 11 | US-11-096-568A-6117 | Sequence 6117, Ap |
| 994 | 25 | 52.1 | 376 | 9 | US-10-467-657-8132 | Sequence 8132, Ap |
| 995 | 25 | 52.1 | 379 | 11 | US-11-096-568A-34405 | Sequence 34405, A |
| 996 | 25 | 52.1 | 379 | 11 | US-11-188-298-16528 | Sequence 16528, A |
| 997 | 25 | 52.1 | 380 | 11 | US-11-096-568A-19520 | Sequence 19520, A |
| 998 | 25 | 52.1 | 380 | 11 | US-11-188-298-1366 | Sequence 1366, Ap |
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ALIGNMENTS

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RESULT 1
US-10-530-061-780
; Sequence 780, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 780
;   LENGTH: 11
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-780

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Db          1 VYDFAFRDL 9


RESULT 2
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-13

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Db         42 VYDFAFRDL 50


RESULT 3
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
;  APPLICANT: HealthBanks Biotech CO. LTD.
;  TITLE OF INVENTION: Fusion protein for inhibiting cervcal cancer
;  FILE REFERENCE: P7819/0613
;  CURRENT APPLICATION NUMBER: US/11/206,138
;  CURRENT FILING DATE:  2005-08-18
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-11-206-138-3

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Db         49 VYDFAFRDL 57


RESULT 4
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
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;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;    LENGTH: 248
;    TYPE: PRT
;    ORGANISM: Human papillomavirus type 16
US-10-530-253-1

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Db         42 VYDFAFRDL 50


RESULT 5
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;    LENGTH: 248
;    TYPE: PRT
;    ORGANISM: Human papillomavirus type 16
US-10-530-253-3

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Db         42 VYDFAFRDL 50


RESULT 6
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
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;    LENGTH: 248
;    TYPE: PRT
;    ORGANISM: Human papillomavirus type 16
US-10-530-253-5

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Db         42 VYDFAFRDL 50


RESULT 7
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
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;    TYPE: PRT
;    ORGANISM: Human papillomavirus type 16
US-10-530-253-7

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Db        139 VYDFAFRDL 147


RESULT 8
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
;    LENGTH: 248
;    TYPE: PRT
;    ORGANISM: Human papillomavirus type 16
US-10-530-253-9
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Db        139 VYDFAFRDL 147


RESULT 9
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
;   LENGTH: 248
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US-10-530-253-11

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Db        139 VYDFAFRDL 147


RESULT 10
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
;  APPLICANT: PANG, XIAOWU
;  TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
;  TITLE OF INVENTION:  RECOMBINANT REPLICON
;  FILE REFERENCE: 116620-003
;  CURRENT APPLICATION NUMBER: US/11/192,923A
;  CURRENT FILING DATE:  2005-07-29
;  PRIOR APPLICATION NUMBER: CN 03115272.4
;  PRIOR FILING DATE: 2003-01-30
;  PRIOR APPLICATION NUMBER: CN 03115273.2
;  PRIOR FILING DATE: 2003-01-30
;  NUMBER OF SEQ ID NOS: 45
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; SEQ ID NO 2
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;   TYPE: PRT
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US-11-192-923A-2

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Db        147 VYDFAFRDL 155


RESULT 11
US-10-530-061-798
; Sequence 798, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 798
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-798

  Query Match             91.7%;  Score 44;  DB 9;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.9e+05;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRD 8
              ||||||||
Db          1 VYDFAFRD 8


RESULT 12
US-10-530-061-1674
; Sequence 1674, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1674
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-1674

  Query Match             87.5%;  Score 42;  DB 9;  Length 15;
  Best Local Similarity   88.9%;  Pred. No. 0.043;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||| ||
Db          3 VYDFAFADL 11


RESULT 13
```

US-10-530-061-1675
; Sequence 1675, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1675
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1675

Query Match 87.5%; Score 42; DB 9; Length 15;
Best Local Similarity 88.9%; Pred. No. 0.043;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 VYDFAFRDL 9
||||||:||
Db 1 VYDFAFADL 9

RESULT 14
US-10-530-253-17
; Sequence 17, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 33
US-10-530-253-17

Query Match 87.5%; Score 42; DB 9; Length 149;
Best Local Similarity 88.9%; Pred. No. 0.43;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 VYDFAFRDL 9
||||||:||
Db 42 VYDFAFADL 50

RESULT 15
US-10-530-061-791
; Sequence 791, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 791
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-791

Query Match 85.4%; Score 41; DB 9; Length 10;
Best Local Similarity 77.8%; Pred. No. 0.044;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VYDFAFRDL 9
||:|||:||
Db 1 VYEFAFKDL 9

RESULT 16
US-10-530-061-784
; Sequence 784, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 784
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-784

Query Match 81.2%; Score 39; DB 9; Length 11;
Best Local Similarity 77.8%; Pred. No. 0.12;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 VYDFAFRDL 9
|| |||:||
Db 1 VYQFAFKDL 9

RESULT 17
US-10-530-253-20
; Sequence 20, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen

```
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 45
US-10-530-253-20

  Query Match             81.2%;  Score 39;  DB 9;  Length 158;
  Best Local Similarity   77.8%;  Pred. No. 1.7;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              || |||:||
Db         44 VYQFAFKDL 52


RESULT 18
US-10-530-061-789
; Sequence 789, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 789
;   LENGTH: 11
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-789

  Query Match             79.2%;  Score 38;  DB 9;  Length 11;
  Best Local Similarity   77.8%;  Pred. No. 0.19;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||| | ||
Db          1 VYDFVFADL 9


RESULT 19
US-10-530-061-1696
; Sequence 1696, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1696
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-1696

  Query Match             79.2%;  Score 38;  DB 9;  Length 15;
  Best Local Similarity   77.8%;  Pred. No. 0.25;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||| | ||
Db          1 VYDFVFADL 9


RESULT 20
US-10-530-253-24
; Sequence 24, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 24
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 58
US-10-530-253-24

  Query Match             79.2%;  Score 38;  DB 9;  Length 149;
  Best Local Similarity   77.8%;  Pred. No. 2.6;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||| | ||
Db         42 VYDFVFADL 50


RESULT 21
US-10-530-253-19
; Sequence 19, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
```

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;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
;    LENGTH: 158
;    TYPE: PRT
;    ORGANISM: Human papillomavirus type 39
US-10-530-253-19

  Query Match             79.2%;  Score 38;  DB 9;  Length 158;
  Best Local Similarity   77.8%;  Pred. No. 2.7;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              ||:||| ||
Db         44 VYEFAFSDL 52


RESULT 22
US-10-530-253-26
; Sequence 26, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 26
;    LENGTH: 158
;    TYPE: PRT
;    ORGANISM: Human papillomavirus type 68
US-10-530-253-26

  Query Match             79.2%;  Score 38;  DB 9;  Length 158;
  Best Local Similarity   77.8%;  Pred. No. 2.7;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              ||:||| ||
Db         44 VYEFAFSDL 52


RESULT 23
US-10-530-061-849
; Sequence 849, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 849
;    LENGTH: 10
;    TYPE: PRT
;    ORGANISM: Human papillomavirus
US-10-530-061-849

  Query Match             77.1%;  Score 37;  DB 9;  Length 10;
  Best Local Similarity   66.7%;  Pred. No. 0.26;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |::|||:||
Db          1 VFEFAFKDL 9


RESULT 24
US-10-530-061-1660
; Sequence 1660, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1660
;    LENGTH: 15
;    TYPE: PRT
;    ORGANISM: Human papillomavirus
US-10-530-061-1660

  Query Match             77.1%;  Score 37;  DB 9;  Length 15;
  Best Local Similarity   66.7%;  Pred. No. 0.4;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |::|||:||
Db          1 VFEFAFKDL 9


RESULT 25
US-10-530-253-15
; Sequence 15, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
;    LENGTH: 158
;    TYPE: PRT
;    ORGANISM: Human papillomavirus type 18
US-10-530-253-15
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```
  Query Match             77.1%;  Score 37;  DB 9;  Length 158;
  Best Local Similarity   66.7%;  Pred. No. 4.2;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |::|||:||
Db         44 VFEFAFKDL 52


RESULT 26
US-11-079-463-6948
; Sequence 6948, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PATH00-03DIV2
;  CURRENT APPLICATION NUMBER: US/11/079,463
;  CURRENT FILING DATE:  2005-03-14
;  PRIOR APPLICATION NUMBER: US 60/128,705
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/540,209
;  PRIOR FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 6948
;   LENGTH: 703
;   TYPE: PRT
;   ORGANISM: B.fragilis
US-11-079-463-6948

  Query Match             77.1%;  Score 37;  DB 11;  Length 703;
  Best Local Similarity   77.8%;  Pred. No. 19;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||| | ||
Db        269 VYDFKFSDL 277


RESULT 27
US-11-087-099-3972
; Sequence 3972, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 3972
;   LENGTH: 181
;   TYPE: PRT
;   ORGANISM: Bacillus cereus ATCC 14579
US-11-087-099-3972

  Query Match             75.0%;  Score 36;  DB 11;  Length 181;
  Best Local Similarity   77.8%;  Pred. No. 7.6;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              | |||||:|
Db        118 VVDFAFREL 126


RESULT 28
US-10-467-657-3278
; Sequence 3278, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
;  APPLICANT: CHIRON SpA
;  APPLICANT: FONTANA Maria Rita
;  APPLICANT: PIZZA Mariagrazia
;  APPLICANT: MASIGNANI Vega
;  APPLICANT: MONACI Elisabetta
;  TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
;  FILE REFERENCE:
;  CURRENT APPLICATION NUMBER: US/10/467,657
;  CURRENT FILING DATE:  2003-08-11
;  PRIOR APPLICATION NUMBER: GB-0103424.8
;  PRIOR FILING DATE: 2001-02-12
;  NUMBER OF SEQ ID NOS: 9218
;  SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 3278
;   LENGTH: 1032
;   TYPE: PRT
;   ORGANISM: Neisseria gonorrhoeae
US-10-467-657-3278

  Query Match             75.0%;  Score 36;  DB 9;  Length 1032;
  Best Local Similarity   75.0%;  Pred. No. 44;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRD 8
              :||||| |
Db        108 IYDFAFDD 115


RESULT 29
US-10-530-253-39
; Sequence 39, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 39
;   LENGTH: 152
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(152)
;   OTHER INFORMATION: where Xaa is any amino acid
US-10-530-253-39

  Query Match             72.9%;  Score 35;  DB 9;  Length 152;
  Best Local Similarity   77.8%;  Pred. No. 10;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              || ||| ||
Db         44 VYXFAFXDL 52


RESULT 30
US-10-530-253-25
; Sequence 25, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
```

; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 25
; LENGTH: 160
; TYPE: PRT
; ORGANISM: Human papillomavirus type 59
US-10-530-253-25

Query Match 72.9%; Score 35; DB 9; Length 160;
Best Local Similarity 66.7%; Pred. No. 11;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 VYDFAFRDL 9
|::||| ||
Db 44 VFEFAFNDL 52

RESULT 31
US-10-530-061-841
; Sequence 841, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 841
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-841

Query Match 70.8%; Score 34; DB 9; Length 9;
Best Local Similarity 75.0%; Pred. No. 1.9e+05;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 VYDFAFRD 8
|||| | |
Db 1 VYDFVFAD 8

RESULT 32
US-10-530-061-1668
; Sequence 1668, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1668
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1668

Query Match 70.8%; Score 34; DB 9; Length 15;
Best Local Similarity 77.8%; Pred. No. 1.5;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 VYDFAFRDL 9
| |||| ||
Db 3 VLDFAFTDL 11

RESULT 33
US-10-530-061-1669
; Sequence 1669, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1669
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1669

Query Match 70.8%; Score 34; DB 9; Length 15;
Best Local Similarity 77.8%; Pred. No. 1.5;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 VYDFAFRDL 9
| |||| ||
Db 1 VLDFAFTDL 9

RESULT 34
US-10-530-061-1709
; Sequence 1709, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207

```
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1709
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-1709

  Query Match             70.8%;  Score 34;  DB 9;  Length 15;
  Best Local Similarity   75.0%;  Pred. No. 1.5;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 YDFAFRDL 9
              ||| | ||
Db          1 YDFVFADL 8


RESULT 35
US-10-530-253-16
; Sequence 16, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 31
US-10-530-253-16

  Query Match             70.8%;  Score 34;  DB 9;  Length 149;
  Best Local Similarity   77.8%;  Pred. No. 15;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              | |||| ||
Db         42 VLDFAFTDL 50


RESULT 36
US-10-530-253-18
; Sequence 18, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 35
US-10-530-253-18

  Query Match             68.8%;  Score 33;  DB 9;  Length 149;
  Best Local Similarity   77.8%;  Pred. No. 24;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              |||||  ||
Db         42 VYDFACYDL 50


RESULT 37
US-11-096-568A-6351
; Sequence 6351, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 6351
;   LENGTH: 164
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(164)
;   OTHER INFORMATION: Ceres Seq. ID no. 14314818
US-11-096-568A-6351

  Query Match             68.8%;  Score 33;  DB 11;  Length 164;
  Best Local Similarity   55.6%;  Pred. No. 26;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              ||||: :|:
Db         10 VYDFSVKDI 18


RESULT 38
US-11-188-298-1801
; Sequence 1801, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 1801
;   LENGTH: 397
;   TYPE: PRT
;   ORGANISM: Desulfovibrio vulgaris subsp. vulgaris (strain Hildenborough)
US-11-188-298-1801

  Query Match             68.8%;  Score 33;  DB 11;  Length 397;
  Best Local Similarity   55.6%;  Pred. No. 64;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              ::|||: ||
Db        204 IHDFAYADL 212
```

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RESULT 39
US-10-506-454-708
; Sequence 708, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
;  APPLICANT: Slesarev, Alexi I
;  APPLICANT:  Mezhevaya, Katja V
;  APPLICANT:  Polushin, Nikolai N
;  APPLICANT:  Shcherbinina, Olga V
;  APPLICANT:  Shakhova, Vera V
;  APPLICANT:  Malykh, Andrei G
;  APPLICANT:  Kozyavkin, Sergei A
;  TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
;  TITLE OF INVENTION:  Methanopyrus Kandleri AV19 and Monophyly of Archael Methanogens
;  TITLE OF INVENTION:  and Methods of Use Thereof
;  FILE REFERENCE: FID001
;  CURRENT APPLICATION NUMBER: US/10/506,454
;  CURRENT FILING DATE:  2004-08-31
;  PRIOR APPLICATION NUMBER: PCT/US03/06664
;  PRIOR FILING DATE: 2003-03-04
;  PRIOR APPLICATION NUMBER: 60/361,742
;  PRIOR FILING DATE: 2002-03-04
;  NUMBER OF SEQ ID NOS: 1722
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 708
;   LENGTH: 585
;   TYPE: PRT
;   ORGANISM: Methanopyrus kandleri
US-10-506-454-708

  Query Match             68.8%;  Score 33;  DB 9;  Length 585;
  Best Local Similarity   55.6%;  Pred. No. 95;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFRDL 9
              ||::|| |:
Db        152 VYEYAFHDV 160


RESULT 40
US-10-530-061-564
; Sequence 564, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 564
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-564

  Query Match             66.7%;  Score 32;  DB 9;  Length 10;
  Best Local Similarity   85.7%;  Pred. No. 2.5;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 VYDFAFR 7
              || ||||
Db          4 VYQFAFR 10


RESULT 41
US-11-096-568A-2928
; Sequence 2928, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 2928
;   LENGTH: 247
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(247)
;   OTHER INFORMATION: Ceres Seq. ID no. 14309513
US-11-096-568A-2928

  Query Match             66.7%;  Score 32;  DB 11;  Length 247;
  Best Local Similarity   85.7%;  Pred. No. 62;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YDFAFRD 8
              ||||| |
Db        157 YDFAFVD 163


RESULT 42
US-11-096-568A-2930
; Sequence 2930, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 2930
;   LENGTH: 247
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(247)
;   OTHER INFORMATION: Ceres Seq. ID no. 16625485
US-11-096-568A-2930

  Query Match             66.7%;  Score 32;  DB 11;  Length 247;
  Best Local Similarity   85.7%;  Pred. No. 62;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YDFAFRD 8
              ||||| |
Db        157 YDFAFVD 163


RESULT 43
US-11-096-568A-2927
; Sequence 2927, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
```

; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 2927
; LENGTH: 268
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(268)
; OTHER INFORMATION: Ceres Seq. ID no. 14309512
US-11-096-568A-2927

Query Match 66.7%; Score 32; DB 11; Length 268;
Best Local Similarity 85.7%; Pred. No. 68;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 YDFAFRD 8
||||| |
Db 178 YDFAFVD 184

RESULT 44
US-11-096-568A-17684
; Sequence 17684, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 17684
; LENGTH: 297
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(297)
; OTHER INFORMATION: Ceres Seq. ID no. 12359761
US-11-096-568A-17684

Query Match 66.7%; Score 32; DB 11; Length 297;
Best Local Similarity 85.7%; Pred. No. 75;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 YDFAFRD 8
||||| |
Db 211 YDFAFVD 217

RESULT 45
US-11-096-568A-17683
; Sequence 17683, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 17683
; LENGTH: 304
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(304)
; OTHER INFORMATION: Ceres Seq. ID no. 12359760
US-11-096-568A-17683

Query Match 66.7%; Score 32; DB 11; Length 304;
Best Local Similarity 85.7%; Pred. No. 77;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 YDFAFRD 8
||||| |
Db 218 YDFAFVD 224

RESULT 46
US-11-045-004-928
; Sequence 928, Application US/11045004
; Publication No. US20060078901A1
; GENERAL INFORMATION:
; APPLICANT: BUCHRIESER, CARMEN
; APPLICANT: FRANGEUL, LIONEL
; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIOK, CHRISTOPHE
; APPLICANT: FSIHI, HAFIDA
; APPLICANT: DEHOUX, PIERRE
; APPLICANT: DUSSURGET, OLIVIER
; APPLICANT: CHETOUANI, FARID
; APPLICANT: NEDJARI, HAFED
; APPLICANT: GLASER, PHILIPPE
; APPLICANT: KUNST, FRANCK
; APPLICANT: COSSART, PASCALE
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEI, WERNER
; APPLICANT: KREFT, JURGEN
; APPLICANT: KUHN, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
; APPLICANT: CHAKRABORTY, TRINAD
; APPLICANT: DOMANN, EUGEN
; APPLICANT: HAIN, THORSTEN
; APPLICANT: BERCHE, PATRICK
; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIONEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: GOMEZ-LOPEZ, NURIA
; APPLICANT: MADUENIO, ENCARNA
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: HAUF, JORG
; APPLICANT: ROSE, MATTHIAS
; APPLICANT: VOSS, HAMUT
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
; FILE REFERENCE: 05394.0018-02
; CURRENT APPLICATION NUMBER: US/11/045,004
; CURRENT FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 10/637,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: 10/257,023
; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: PCT/FR01/01118
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: FR 00/04,629
; PRIOR FILING DATE: 2000-04-11
; NUMBER OF SEQ ID NOS: 2854
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 928
; LENGTH: 398
; TYPE: PRT

; ORGANISM: Listeria monocytogenes
US-11-045-004-928

Query Match 66.7%; Score 32; DB 11; Length 398;
Best Local Similarity 62.5%; Pred. No. 1e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 2 YDFAFRDL 9
||| : ||
Db 12 YDFTYEDL 19

RESULT 47
US-11-087-099-3117
; Sequence 3117, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 3117
; LENGTH: 459
; TYPE: PRT
; ORGANISM: Chlorobium tepidum TLS
US-11-087-099-3117

Query Match 66.7%; Score 32; DB 11; Length 459;
Best Local Similarity 75.0%; Pred. No. 1.2e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 YDFAFRDL 9
||| || |
Db 73 YDFMFRGL 80

RESULT 48
US-11-098-686-10105
; Sequence 10105, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
; APPLICANT: Kapur, Vivek and Gebhart, Connie J.
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
; TITLE OF INVENTION: FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
; FILE REFERENCE: 09531-128001
; CURRENT APPLICATION NUMBER: US/11/098,686
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31318
; PRIOR FILING DATE: 2003-10-01
; PRIOR APPLICATION NUMBER: US 60/416,395
; PRIOR FILING DATE: 2002-10-04
; NUMBER OF SEQ ID NOS: 11433
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10105
; LENGTH: 487
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US-11-098-686-10105

Query Match 66.7%; Score 32; DB 11; Length 487;
Best Local Similarity 62.5%; Pred. No. 1.2e+02;
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; Sequence 7758, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRAC
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
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; LENGTH: 627
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-7758

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Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

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RESULT 50
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; Sequence 92, Application US/11052554A
; Publication No. US20050288866A1
; GENERAL INFORMATION:
; APPLICANT: Sachdeva, et al.
; TITLE OF INVENTION: COMPUTATIONAL METHOD FOR IDENTIFYING ADHESIN AND ADHESIN-LIKE
; TITLE OF INVENTION: PROTEINS OF THERAPEUTIC POTENTIAL
; FILE REFERENCE: 30853/40359A
; CURRENT APPLICATION NUMBER: US/11/052,554A
; CURRENT FILING DATE: 2005-02-07
; PRIOR APPLICATION NUMBER: US 60/589,227
; PRIOR FILING DATE: 2004-07-20
; PRIOR APPLICATION NUMBER: IN 173/DEL/2004
; PRIOR FILING DATE: 2004-02-06
; NUMBER OF SEQ ID NOS: 763
; SOFTWARE: PatentIn version 3.3
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; LENGTH: 2399
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; ORGANISM: Helicobacter pylori J99
US-11-052-554A-92

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OM protein - protein search, using sw model

Run on: May 5, 2006, 04:48:55 ; Search time 20.7 Seconds
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35.946 Million cell updates/sec

Title: US-08-170-344-68
Perfect score: 55
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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 210 | 32 | 58.2 | 177 | 2 | US-09-270-767-47758 | Sequence 47758, A |
| 211 | 32 | 58.2 | 180 | 2 | US-09-270-767-58131 | Sequence 58131, A |
| 212 | 32 | 58.2 | 181 | 2 | US-10-001-887-85 | Sequence 85, Appl |
| 213 | 32 | 58.2 | 216 | 2 | US-09-270-767-43641 | Sequence 43641, A |
| 214 | 32 | 58.2 | 273 | 1 | US-08-152-019A-30 | Sequence 30, Appl |
| 215 | 32 | 58.2 | 308 | 2 | US-09-248-796A-14594 | Sequence 14594, A |
| 216 | 32 | 58.2 | 327 | 1 | US-08-739-485-10 | Sequence 10, Appl |
| 217 | 32 | 58.2 | 346 | 2 | US-09-270-767-43877 | Sequence 43877, A |
| 218 | 32 | 58.2 | 355 | 2 | US-08-709-731A-28 | Sequence 28, Appl |
| 219 | 32 | 58.2 | 373 | 1 | US-08-864-804-3 | Sequence 3, Appli |
| 220 | 32 | 58.2 | 376 | 1 | US-07-648-796A-6 | Sequence 6, Appli |
| 221 | 32 | 58.2 | 397 | 1 | US-08-868-288A-5 | Sequence 5, Appli |
| 222 | 32 | 58.2 | 397 | 2 | US-09-235-373-5 | Sequence 5, Appli |
| 223 | 32 | 58.2 | 397 | 2 | US-09-388-993-5 | Sequence 5, Appli |
| 224 | 32 | 58.2 | 397 | 2 | US-09-919-039-178 | Sequence 178, App |
| 225 | 32 | 58.2 | 397 | 2 | US-09-538-092-1052 | Sequence 1052, Ap |
| 226 | 32 | 58.2 | 397 | 2 | US-09-501-714-5 | Sequence 5, Appli |
| 227 | 32 | 58.2 | 422 | 2 | US-08-872-979-8 | Sequence 8, Appli |
| 228 | 32 | 58.2 | 423 | 2 | US-09-270-767-42815 | Sequence 42815, A |
| 229 | 32 | 58.2 | 431 | 2 | US-09-949-016-8402 | Sequence 8402, Ap |
| 230 | 32 | 58.2 | 504 | 2 | US-09-902-540-10955 | Sequence 10955, A |
| 231 | 32 | 58.2 | 645 | 2 | US-09-270-767-46269 | Sequence 46269, A |
| 232 | 32 | 58.2 | 770 | 1 | US-07-648-796A-8 | Sequence 8, Appli |
| 233 | 32 | 58.2 | 799 | 1 | US-07-648-796A-7 | Sequence 7, Appli |
| 234 | 32 | 58.2 | 823 | 2 | US-09-949-016-10470 | Sequence 10470, A |
| 235 | 32 | 58.2 | 857 | 1 | US-07-717-331F-2 | Sequence 2, Appli |
| 236 | 32 | 58.2 | 869 | 2 | US-09-543-681A-4814 | Sequence 4814, Ap |
| 237 | 32 | 58.2 | 934 | 2 | US-09-949-002-289 | Sequence 289, App |
| 238 | 32 | 58.2 | 981 | 2 | US-09-949-002-513 | Sequence 513, App |
| 239 | 32 | 58.2 | 2441 | 1 | US-08-194-468-2 | Sequence 2, Appli |
| 240 | 32 | 58.2 | 2441 | 2 | US-08-961-739-2 | Sequence 2, Appli |
| 241 | 32 | 58.2 | 2441 | 2 | US-09-514-247A-8 | Sequence 8, Appli |
| 242 | 32 | 58.2 | 2441 | 2 | US-09-686-316-2 | Sequence 2, Appli |
| 243 | 32 | 58.2 | 2442 | 2 | US-09-514-247A-10 | Sequence 10, Appl |
| 244 | 32 | 58.2 | 2442 | 2 | US-09-538-092-1370 | Sequence 1370, Ap |
| 245 | 31.5 | 57.3 | 338 | 1 | US-08-933-750C-4 | Sequence 4, Appli |
| 246 | 31.5 | 57.3 | 338 | 2 | US-09-234-613-4 | Sequence 4, Appli |

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| 248 | 31.5 | 57.3 | 348 | 4 | PCT-US93-08528-13 | Sequence 13, Appl |
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| 250 | 31.5 | 57.3 | 415 | 2 | US-09-248-796A-19656 | Sequence 19656, A |
| 251 | 31.5 | 57.3 | 458 | 2 | US-09-538-092-1356 | Sequence 1356, Ap |
| 252 | 31.5 | 57.3 | 488 | 1 | US-08-933-750C-17 | Sequence 17, Appl |
| 253 | 31.5 | 57.3 | 488 | 2 | US-09-234-613-17 | Sequence 17, Appl |
| 254 | 31.5 | 57.3 | 532 | 2 | US-09-826-509-521 | Sequence 521, App |
| 255 | 31.5 | 57.3 | 944 | 2 | US-09-449-285A-2 | Sequence 2, Appli |
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| 257 | 31.5 | 57.3 | 1104 | 2 | US-10-104-047-2506 | Sequence 2506, Ap |
| 258 | 31.5 | 57.3 | 1125 | 2 | US-09-949-016-10194 | Sequence 10194, A |
| 259 | 31.5 | 57.3 | 1214 | 2 | US-09-949-016-6885 | Sequence 6885, Ap |
| 260 | 31.5 | 57.3 | 1318 | 2 | US-09-949-016-7130 | Sequence 7130, Ap |
| 261 | 31 | 56.4 | 11 | 2 | US-08-159-339A-1141 | Sequence 1141, Ap |
| 262 | 31 | 56.4 | 15 | 2 | US-09-009-953-93 | Sequence 93, Appl |
| 263 | 31 | 56.4 | 59 | 2 | US-09-732-210-914 | Sequence 914, App |
| 264 | 31 | 56.4 | 67 | 1 | US-08-686-878A-53 | Sequence 53, Appl |
| 265 | 31 | 56.4 | 67 | 1 | US-08-721-924-3 | Sequence 3, Appli |
| 266 | 31 | 56.4 | 67 | 2 | US-09-175-928-7 | Sequence 7, Appli |
| 267 | 31 | 56.4 | 92 | 2 | US-09-334-601-17 | Sequence 17, Appl |
| 268 | 31 | 56.4 | 92 | 2 | US-09-334-601-18 | Sequence 18, Appl |
| 269 | 31 | 56.4 | 92 | 2 | US-09-334-601-19 | Sequence 19, Appl |
| 270 | 31 | 56.4 | 97 | 2 | US-09-270-767-57466 | Sequence 57466, A |
| 271 | 31 | 56.4 | 108 | 2 | US-09-345-236B-29 | Sequence 29, Appl |
| 272 | 31 | 56.4 | 118 | 2 | US-09-270-767-59555 | Sequence 59555, A |
| 273 | 31 | 56.4 | 119 | 2 | US-09-270-767-58536 | Sequence 58536, A |
| 274 | 31 | 56.4 | 122 | 2 | US-09-651-656-9 | Sequence 9, Appli |
| 275 | 31 | 56.4 | 122 | 2 | US-09-650-855-9 | Sequence 9, Appli |
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| 277 | 31 | 56.4 | 131 | 2 | US-09-270-767-48645 | Sequence 48645, A |
| 278 | 31 | 56.4 | 136 | 2 | US-09-830-217-4 | Sequence 4, Appli |
| 279 | 31 | 56.4 | 136 | 2 | US-10-278-946-4 | Sequence 4, Appli |
| 280 | 31 | 56.4 | 137 | 2 | US-09-270-767-44135 | Sequence 44135, A |
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| 282 | 31 | 56.4 | 145 | 2 | US-09-134-001C-3633 | Sequence 3633, Ap |
| 283 | 31 | 56.4 | 146 | 2 | US-09-270-767-33225 | Sequence 33225, A |
| 284 | 31 | 56.4 | 146 | 2 | US-09-270-767-48442 | Sequence 48442, A |
| 285 | 31 | 56.4 | 147 | 2 | US-08-679-493A-84 | Sequence 84, Appl |
| 286 | 31 | 56.4 | 152 | 2 | US-09-328-352-5567 | Sequence 5567, Ap |
| 287 | 31 | 56.4 | 155 | 2 | US-08-679-493A-70 | Sequence 70, Appl |
| 288 | 31 | 56.4 | 155 | 2 | US-10-104-047-3331 | Sequence 3331, Ap |
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| 296 | 31 | 56.4 | 251 | 2 | US-09-902-540-15293 | Sequence 15293, A |
| 297 | 31 | 56.4 | 254 | 1 | US-08-799-464A-5 | Sequence 5, Appli |
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| 301 | 31 | 56.4 | 254 | 2 | US-08-478-316-18 | Sequence 18, Appl |
| 302 | 31 | 56.4 | 254 | 2 | US-08-478-316-19 | Sequence 19, Appl |
| 303 | 31 | 56.4 | 254 | 2 | US-08-478-316-20 | Sequence 20, Appl |
| 304 | 31 | 56.4 | 254 | 2 | US-08-478-316-21 | Sequence 21, Appl |
| 305 | 31 | 56.4 | 254 | 2 | US-08-478-316-22 | Sequence 22, Appl |
| 306 | 31 | 56.4 | 254 | 2 | US-09-113-750A-38 | Sequence 38, Appl |
| 307 | 31 | 56.4 | 254 | 2 | US-09-019-793A-16 | Sequence 16, Appl |
| 308 | 31 | 56.4 | 254 | 2 | US-09-019-793A-17 | Sequence 17, Appl |
| 309 | 31 | 56.4 | 254 | 2 | US-09-019-793A-18 | Sequence 18, Appl |
| 310 | 31 | 56.4 | 254 | 2 | US-09-019-793A-19 | Sequence 19, Appl |
| 311 | 31 | 56.4 | 254 | 2 | US-09-019-793A-20 | Sequence 20, Appl |
| 312 | 31 | 56.4 | 254 | 2 | US-09-019-793A-21 | Sequence 21, Appl |
| 313 | 31 | 56.4 | 254 | 2 | US-09-019-793A-22 | Sequence 22, Appl |
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| 315 | 31 | 56.4 | 254 | 2 | US-09-601-326-16 | Sequence 16, Appl |
| 316 | 31 | 56.4 | 254 | 2 | US-09-601-326-17 | Sequence 17, Appl |
| 317 | 31 | 56.4 | 254 | 2 | US-09-601-326-18 | Sequence 18, Appl |
| 318 | 31 | 56.4 | 254 | 2 | US-09-601-326-19 | Sequence 19, Appl |
| 319 | 31 | 56.4 | 254 | 2 | US-09-601-326-20 | Sequence 20, Appl |
| 320 | 31 | 56.4 | 254 | 2 | US-09-601-326-21 | Sequence 21, Appl |
| 321 | 31 | 56.4 | 254 | 2 | US-09-601-326-22 | Sequence 22, Appl |
| 322 | 31 | 56.4 | 254 | 4 | PCT-US95-09927-5 | Sequence 5, Appli |
| 323 | 31 | 56.4 | 254 | 4 | PCT-US95-10904-69 | Sequence 69, Appl |
| 324 | 31 | 56.4 | 259 | 2 | US-09-082-090-2 | Sequence 2, Appli |
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| 326 | 31 | 56.4 | 273 | 2 | US-09-651-656-7 | Sequence 7, Appli |
| 327 | 31 | 56.4 | 273 | 2 | US-09-650-855-7 | Sequence 7, Appli |
| 328 | 31 | 56.4 | 281 | 2 | US-09-949-016-9588 | Sequence 9588, Ap |
| 329 | 31 | 56.4 | 290 | 2 | US-09-231-182B-2 | Sequence 2, Appli |
| 330 | 31 | 56.4 | 291 | 1 | US-07-593-657-5 | Sequence 5, Appli |
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| 332 | 31 | 56.4 | 291 | 2 | US-09-029-213B-4 | Sequence 4, Appli |
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| 335 | 31 | 56.4 | 295 | 2 | US-09-543-681A-4711 | Sequence 4711, Ap |
| 336 | 31 | 56.4 | 313 | 2 | US-09-800-729-196 | Sequence 196, App |
| 337 | 31 | 56.4 | 326 | 2 | US-09-800-729-195 | Sequence 195, App |
| 338 | 31 | 56.4 | 343 | 2 | US-09-922-501-15 | Sequence 15, Appl |
| 339 | 31 | 56.4 | 350 | 2 | US-09-270-767-42267 | Sequence 42267, A |
| 340 | 31 | 56.4 | 367 | 2 | US-09-902-540-16234 | Sequence 16234, A |
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| 342 | 31 | 56.4 | 385 | 1 | US-08-597-545-1 | Sequence 1, Appli |
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| 344 | 31 | 56.4 | 385 | 2 | US-09-142-027A-10 | Sequence 10, Appl |
| 345 | 31 | 56.4 | 403 | 2 | US-09-470-526-2 | Sequence 2, Appli |
| 346 | 31 | 56.4 | 407 | 2 | US-09-328-352-7393 | Sequence 7393, Ap |
| 347 | 31 | 56.4 | 409 | 2 | US-09-328-352-7559 | Sequence 7559, Ap |
| 348 | 31 | 56.4 | 416 | 2 | US-10-101-464A-937 | Sequence 937, App |
| 349 | 31 | 56.4 | 437 | 2 | US-09-270-767-45974 | Sequence 45974, A |
| 350 | 31 | 56.4 | 438 | 2 | US-09-252-991A-20028 | Sequence 20028, A |
| 351 | 31 | 56.4 | 455 | 2 | US-09-543-681A-8288 | Sequence 8288, Ap |
| 352 | 31 | 56.4 | 477 | 2 | US-09-270-767-42457 | Sequence 42457, A |
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| 354 | 31 | 56.4 | 495 | 1 | US-07-841-997A-2 | Sequence 2, Appli |
| 355 | 31 | 56.4 | 495 | 1 | US-08-290-301-2 | Sequence 2, Appli |
| 356 | 31 | 56.4 | 495 | 1 | US-08-588-983-2 | Sequence 2, Appli |
| 357 | 31 | 56.4 | 495 | 1 | US-08-588-976-2 | Sequence 2, Appli |
| 358 | 31 | 56.4 | 495 | 2 | US-09-013-598-2 | Sequence 2, Appli |
| 359 | 31 | 56.4 | 495 | 2 | US-08-985-343-2 | Sequence 2, Appli |
| 360 | 31 | 56.4 | 525 | 2 | US-09-470-526-9 | Sequence 9, Appli |
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| 363 | 31 | 56.4 | 597 | 2 | US-09-861-451A-40 | Sequence 40, Appl |
| 364 | 31 | 56.4 | 605 | 2 | US-10-363-937-3 | Sequence 3, Appli |
| 365 | 31 | 56.4 | 659 | 2 | US-10-012-819-70 | Sequence 70, Appl |
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| 367 | 31 | 56.4 | 703 | 2 | US-09-252-991A-17865 | Sequence 17865, A |
| 368 | 31 | 56.4 | 816 | 2 | US-10-101-464A-827 | Sequence 827, App |
| 369 | 31 | 56.4 | 850 | 2 | US-09-952-060-2 | Sequence 2, Appli |
| 370 | 31 | 56.4 | 850 | 2 | US-09-952-060-4 | Sequence 4, Appli |
| 371 | 31 | 56.4 | 875 | 2 | US-09-952-060-6 | Sequence 6, Appli |
| 372 | 31 | 56.4 | 875 | 2 | US-09-952-060-8 | Sequence 8, Appli |
| 373 | 31 | 56.4 | 889 | 2 | US-09-252-991A-18702 | Sequence 18702, A |
| 374 | 31 | 56.4 | 892 | 2 | US-09-328-352-8164 | Sequence 8164, Ap |
| 375 | 31 | 56.4 | 913 | 1 | US-07-743-357-6 | Sequence 6, Appli |
| 376 | 31 | 56.4 | 913 | 1 | US-07-743-357-22 | Sequence 22, Appl |
| 377 | 31 | 56.4 | 999 | 2 | US-10-290-579A-190 | Sequence 190, App |
| 378 | 31 | 56.4 | 1000 | 2 | US-10-290-579A-186 | Sequence 186, App |
| 379 | 31 | 56.4 | 1002 | 2 | US-10-290-579A-184 | Sequence 184, App |
| 380 | 31 | 56.4 | 1002 | 2 | US-10-290-579A-185 | Sequence 185, App |
| 381 | 31 | 56.4 | 1002 | 2 | US-10-290-579A-187 | Sequence 187, App |
| 382 | 31 | 56.4 | 1003 | 1 | US-07-743-357-8 | Sequence 8, Appli |
| 383 | 31 | 56.4 | 1003 | 1 | US-07-743-357-9 | Sequence 9, Appli |
| 384 | 31 | 56.4 | 1003 | 1 | US-07-743-357-10 | Sequence 10, Appl |
| 385 | 31 | 56.4 | 1003 | 2 | US-09-309-572-17 | Sequence 17, Appl |
| 386 | 31 | 56.4 | 1003 | 2 | US-09-718-096-17 | Sequence 17, Appl |
| 387 | 31 | 56.4 | 1003 | 2 | US-10-290-579A-183 | Sequence 183, App |
| 388 | 31 | 56.4 | 1003 | 2 | US-10-290-579A-188 | Sequence 188, App |
| 389 | 31 | 56.4 | 1003 | 2 | US-10-290-579A-192 | Sequence 192, App |
| 390 | 31 | 56.4 | 1003 | 2 | US-10-290-579A-193 | Sequence 193, App |
| 391 | 31 | 56.4 | 1003 | 2 | US-09-393-795-7 | Sequence 7, Appli |
| 392 | 31 | 56.4 | 1003 | 2 | US-09-393-795-9 | Sequence 9, Appli |

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| 393 | 31 | 56.4 | 1003 | 2 | US-09-393-795-11 | Sequence 11, Appl |
| 394 | 31 | 56.4 | 1004 | 1 | US-07-743-357-7 | Sequence 7, Appli |
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| 396 | 31 | 56.4 | 1005 | 2 | US-10-290-579A-191 | Sequence 191, App |
| 397 | 31 | 56.4 | 1007 | 2 | US-10-209-059-28 | Sequence 28, Appl |
| 398 | 31 | 56.4 | 1010 | 2 | US-08-882-046-7 | Sequence 7, Appli |
| 399 | 31 | 56.4 | 1010 | 2 | US-09-566-047-7 | Sequence 7, Appli |
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| 401 | 31 | 56.4 | 1015 | 2 | US-08-463-210-9 | Sequence 9, Appli |
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| 403 | 31 | 56.4 | 1015 | 2 | US-08-463-028-9 | Sequence 9, Appli |
| 404 | 31 | 56.4 | 1015 | 2 | US-08-463-209-9 | Sequence 9, Appli |
| 405 | 31 | 56.4 | 1016 | 1 | US-07-743-357-2 | Sequence 2, Appli |
| 406 | 31 | 56.4 | 1016 | 1 | US-07-743-357-3 | Sequence 3, Appli |
| 407 | 31 | 56.4 | 1016 | 1 | US-07-743-357-4 | Sequence 4, Appli |
| 408 | 31 | 56.4 | 1016 | 1 | US-07-743-357-5 | Sequence 5, Appli |
| 409 | 31 | 56.4 | 1036 | 2 | US-09-068-740A-6 | Sequence 6, Appli |
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| 413 | 31 | 56.4 | 1111 | 2 | US-08-800-593-15 | Sequence 15, Appl |
| 414 | 31 | 56.4 | 1111 | 2 | US-09-756-071B-15 | Sequence 15, Appl |
| 415 | 31 | 56.4 | 1172 | 2 | US-09-560-385A-28 | Sequence 28, Appl |
| 416 | 31 | 56.4 | 1172 | 2 | US-09-560-385A-32 | Sequence 32, Appl |
| 417 | 31 | 56.4 | 1187 | 2 | US-09-068-740A-7 | Sequence 7, Appli |
| 418 | 31 | 56.4 | 1193 | 1 | US-08-317-450B-13 | Sequence 13, Appl |
| 419 | 31 | 56.4 | 1193 | 1 | US-08-400-159-10 | Sequence 10, Appl |
| 420 | 31 | 56.4 | 1193 | 2 | US-08-611-729A-10 | Sequence 10, Appl |
| 421 | 31 | 56.4 | 1193 | 2 | US-08-800-593-13 | Sequence 13, Appl |
| 422 | 31 | 56.4 | 1193 | 2 | US-09-560-385A-26 | Sequence 26, Appl |
| 423 | 31 | 56.4 | 1193 | 2 | US-09-560-385A-30 | Sequence 30, Appl |
| 424 | 31 | 56.4 | 1193 | 2 | US-09-195-524-10 | Sequence 10, Appl |
| 425 | 31 | 56.4 | 1193 | 2 | US-09-310-685-8 | Sequence 8, Appli |
| 426 | 31 | 56.4 | 1193 | 2 | US-10-053-662A-31 | Sequence 31, Appl |
| 427 | 31 | 56.4 | 1193 | 2 | US-09-756-071B-13 | Sequence 13, Appl |
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| 429 | 31 | 56.4 | 1208 | 2 | US-10-213-329-1 | Sequence 1, Appli |
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| 431 | 31 | 56.4 | 1218 | 1 | US-08-400-159-6 | Sequence 6, Appli |
| 432 | 31 | 56.4 | 1218 | 2 | US-08-611-729A-6 | Sequence 6, Appli |
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| 434 | 31 | 56.4 | 1218 | 2 | US-09-214-278-7 | Sequence 7, Appli |
| 435 | 31 | 56.4 | 1218 | 2 | US-09-068-740A-11 | Sequence 11, Appl |
| 436 | 31 | 56.4 | 1218 | 2 | US-09-855-722-7 | Sequence 7, Appli |
| 437 | 31 | 56.4 | 1218 | 2 | US-09-566-047-2 | Sequence 2, Appli |
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| 442 | 31 | 56.4 | 1218 | 2 | US-09-310-685-4 | Sequence 4, Appli |
| 443 | 31 | 56.4 | 1219 | 2 | US-08-882-046-5 | Sequence 5, Appli |
| 444 | 31 | 56.4 | 1219 | 2 | US-09-566-047-5 | Sequence 5, Appli |
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| 449 | 31 | 56.4 | 1800 | 2 | US-09-561-818A-8 | Sequence 8, Appli |
| 450 | 31 | 56.4 | 1816 | 2 | US-09-561-818A-2 | Sequence 2, Appli |
| 451 | 31 | 56.4 | 1824 | 2 | US-09-561-818A-6 | Sequence 6, Appli |
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| 453 | 31 | 56.4 | 2254 | 1 | US-08-286-819A-28 | Sequence 28, Appl |
| 454 | 31 | 56.4 | 2254 | 2 | US-08-980-357-28 | Sequence 28, Appl |
| 455 | 31 | 56.4 | 2254 | 2 | US-09-357-375-28 | Sequence 28, Appl |
| 456 | 31 | 56.4 | 2289 | 2 | US-09-051-019-2 | Sequence 2, Appli |
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| 459 | 30 | 54.5 | 19 | 2 | US-08-974-022-40 | Sequence 40, Appl |
| 460 | 30 | 54.5 | 19 | 2 | US-08-795-445A-40 | Sequence 40, Appl |
| 461 | 30 | 54.5 | 19 | 2 | US-08-795-447A-40 | Sequence 40, Appl |
| 462 | 30 | 54.5 | 19 | 2 | US-08-974-186-40 | Sequence 40, Appl |
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| 465 | 30 | 54.5 | 19 | 2 | US-08-577-788C-40 | Sequence 40, Appl |
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| 472 | 30 | 54.5 | 26 | 2 | US-08-779-599-16 | Sequence 16, Appl |
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| 483 | 30 | 54.5 | 48 | 2 | US-08-795-446B-43 | Sequence 43, Appl |
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| 488 | 30 | 54.5 | 62 | 2 | US-09-270-767-50053 | Sequence 50053, A |
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| 492 | 30 | 54.5 | 70 | 2 | US-08-795-447A-41 | Sequence 41, Appl |
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| 534 | 30 | 54.5 | 187 | 2 | US-10-232-858-81 | Sequence 81, Appl |
| 535 | 30 | 54.5 | 187 | 2 | US-09-338-063A-81 | Sequence 81, Appl |
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| 608 | 30 | 54.5 | 401 | 2 | US-08-795-445A-6 | Sequence 6, Appli |
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| 614 | 30 | 54.5 | 401 | 2 | US-08-974-186-6 | Sequence 6, Appli |
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| 639 | 30 | 54.5 | 401 | 2 | US-09-338-063A-64 | Sequence 64, Appl |
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| 717 | 30 | 54.5 | 940 | 2 | US-09-651-656-101 | Sequence 101, App |
| 718 | 30 | 54.5 | 940 | 2 | US-09-650-855-101 | Sequence 101, App |
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| 725 | 30 | 54.5 | 969 | 4 | PCT-US93-02147A-2 | Sequence 2, Appli |
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| 727 | 30 | 54.5 | 994 | 2 | US-09-543-681A-7288 | Sequence 7288, Ap |
| 728 | 30 | 54.5 | 1026 | 2 | US-10-104-047-2509 | Sequence 2509, Ap |
| 729 | 30 | 54.5 | 1059 | 2 | US-09-134-513-2 | Sequence 2, Appli |
| 730 | 30 | 54.5 | 1059 | 2 | US-09-134-000C-5600 | Sequence 5600, Ap |
| 731 | 30 | 54.5 | 1059 | 2 | US-10-160-719A-2 | Sequence 2, Appli |
| 732 | 30 | 54.5 | 1059 | 2 | US-10-209-059-42 | Sequence 42, Appl |
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| 735 | 30 | 54.5 | 1079 | 1 | US-08-480-751-8 | Sequence 8, Appli |
| 736 | 30 | 54.5 | 1079 | 1 | US-08-943-986-8 | Sequence 8, Appli |
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| 738 | 30 | 54.5 | 1079 | 2 | US-08-484-719B-8 | Sequence 8, Appli |
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| 746 | 30 | 54.5 | 1085 | 2 | US-08-484-159-5 | Sequence 5, Appli |
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| 748 | 30 | 54.5 | 1086 | 2 | US-10-160-719A-38 | Sequence 38, Appl |
| 749 | 30 | 54.5 | 1086 | 2 | US-09-900-237-10 | Sequence 10, Appl |
| 750 | 30 | 54.5 | 1086 | 2 | US-10-209-059-50 | Sequence 50, Appl |
| 751 | 30 | 54.5 | 1094 | 2 | US-10-160-719A-26 | Sequence 26, Appl |
| 752 | 30 | 54.5 | 1094 | 2 | US-10-160-719A-46 | Sequence 46, Appl |
| 753 | 30 | 54.5 | 1094 | 2 | US-10-209-059-18 | Sequence 18, Appl |
| 754 | 30 | 54.5 | 1101 | 2 | US-09-561-709B-5 | Sequence 5, Appli |
| 755 | 30 | 54.5 | 1148 | 2 | US-09-900-237-4 | Sequence 4, Appli |
| 756 | 30 | 54.5 | 1165 | 2 | US-09-900-237-8 | Sequence 8, Appli |
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| 758 | 30 | 54.5 | 1218 | 2 | US-09-198-452A-98 | Sequence 98, Appl |
| 759 | 30 | 54.5 | 1224 | 2 | US-09-107-532A-6220 | Sequence 6220, Ap |
| 760 | 30 | 54.5 | 1225 | 2 | US-09-583-110-3637 | Sequence 3637, Ap |
| 761 | 30 | 54.5 | 1239 | 2 | US-09-107-433-4267 | Sequence 4267, Ap |
| 762 | 30 | 54.5 | 1283 | 2 | US-09-248-796A-18091 | Sequence 18091, A |
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| 766 | 30 | 54.5 | 1400 | 4 | PCT-US93-05857-7 | Sequence 7, Appli |
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| 768 | 30 | 54.5 | 1428 | 2 | US-09-964-956-33 | Sequence 33, Appl |
| 769 | 30 | 54.5 | 1551 | 2 | US-09-949-016-6785 | Sequence 6785, Ap |
| 770 | 30 | 54.5 | 1587 | 2 | US-09-845-583A-10 | Sequence 10, Appl |
| 771 | 30 | 54.5 | 1587 | 2 | US-09-561-709B-3 | Sequence 3, Appli |
| 772 | 30 | 54.5 | 1725 | 2 | US-09-562-702A-20 | Sequence 20, Appl |
| 773 | 30 | 54.5 | 1725 | 2 | US-09-561-818A-20 | Sequence 20, Appl |
| 774 | 30 | 54.5 | 1725 | 2 | US-10-037-182-12 | Sequence 12, Appl |
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| 776 | 30 | 54.5 | 1765 | 2 | US-09-562-702A-16 | Sequence 16, Appl |
| 777 | 30 | 54.5 | 1765 | 2 | US-09-561-818A-16 | Sequence 16, Appl |
| 778 | 30 | 54.5 | 1765 | 2 | US-10-037-182-8 | Sequence 8, Appli |
| 779 | 30 | 54.5 | 1786 | 2 | US-09-562-702A-14 | Sequence 14, Appl |
| 780 | 30 | 54.5 | 1786 | 2 | US-09-562-702A-18 | Sequence 18, Appl |
| 781 | 30 | 54.5 | 1786 | 2 | US-09-561-818A-14 | Sequence 14, Appl |
| 782 | 30 | 54.5 | 1786 | 2 | US-09-561-818A-18 | Sequence 18, Appl |
| 783 | 30 | 54.5 | 1786 | 2 | US-09-561-709B-9 | Sequence 9, Appli |
| 784 | 30 | 54.5 | 1786 | 2 | US-09-538-092-869 | Sequence 869, App |
| 785 | 30 | 54.5 | 1786 | 2 | US-10-037-182-6 | Sequence 6, Appli |
| 786 | 30 | 54.5 | 1786 | 2 | US-10-037-182-10 | Sequence 10, Appl |
| 787 | 30 | 54.5 | 1792 | 2 | US-09-561-818A-12 | Sequence 12, Appl |
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| 789 | 30 | 54.5 | 1798 | 2 | US-09-561-709B-11 | Sequence 11, Appl |
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| 791 | 30 | 54.5 | 1799 | 2 | US-09-845-583A-6 | Sequence 6, Appli |
| 792 | 30 | 54.5 | 1816 | 2 | US-09-561-818A-10 | Sequence 10, Appl |
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| 795 | 30 | 54.5 | 2052 | 2 | US-09-619-062-2 | Sequence 2, Appli |
| 796 | 30 | 54.5 | 2414 | 1 | US-08-227-536-2 | Sequence 2, Appli |
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| 798 | 30 | 54.5 | 2414 | 4 | PCT-US95-04682-2 | Sequence 2, Appli |
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| 802 | 30 | 54.5 | 3635 | 2 | US-10-037-417-47 | Sequence 47, Appl |
| 803 | 30 | 54.5 | 3635 | 2 | US-10-037-182-4 | Sequence 4, Appli |
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| 805 | 30 | 54.5 | 3695 | 2 | US-10-037-182-2 | Sequence 2, Appli |
| 806 | 30 | 54.5 | 3969 | 2 | US-08-061-376-5 | Sequence 5, Appli |
| 807 | 30 | 54.5 | 3969 | 2 | US-09-538-092-1262 | Sequence 1262, Ap |
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| 815 | 29.5 | 53.6 | 376 | 2 | US-09-150-133-7 | Sequence 7, Appli |
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| 817 | 29.5 | 53.6 | 376 | 2 | US-09-374-493-7 | Sequence 7, Appli |
| 818 | 29.5 | 53.6 | 376 | 2 | US-09-374-824-7 | Sequence 7, Appli |
| 819 | 29.5 | 53.6 | 376 | 2 | US-09-374-492-7 | Sequence 7, Appli |
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| 825 | 29.5 | 53.6 | 1572 | 2 | US-10-037-182-20 | Sequence 20, Appl |
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| 832 | 29.5 | 53.6 | 1605 | 2 | US-10-037-182-18 | Sequence 18, Appl |
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| 834 | 29.5 | 53.6 | 1609 | 2 | US-09-561-818A-22 | Sequence 22, Appl |
| 835 | 29.5 | 53.6 | 1609 | 2 | US-09-538-092-900 | Sequence 900, App |
| 836 | 29.5 | 53.6 | 1609 | 2 | US-10-037-182-14 | Sequence 14, Appl |
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| 844 | 29 | 52.7 | 19 | 1 | US-08-444-733-79 | Sequence 79, Appl |
| 845 | 29 | 52.7 | 19 | 1 | US-08-464-134-79 | Sequence 79, Appl |
| 846 | 29 | 52.7 | 19 | 1 | US-08-461-361-79 | Sequence 79, Appl |
| 847 | 29 | 52.7 | 19 | 1 | US-08-485-910-79 | Sequence 79, Appl |
| 848 | 29 | 52.7 | 19 | 4 | PCT-US95-06266-63 | Sequence 63, Appl |
| 849 | 29 | 52.7 | 26 | 1 | US-08-620-151-7 | Sequence 7, Appli |
| 850 | 29 | 52.7 | 26 | 1 | US-08-620-151-101 | Sequence 101, App |
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| 852 | 29 | 52.7 | 28 | 2 | US-08-793-792-1 | Sequence 1, Appli |
| 853 | 29 | 52.7 | 32 | 2 | US-08-793-792-5 | Sequence 5, Appli |
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| 857 | 29 | 52.7 | 36 | 1 | US-08-444-733-71 | Sequence 71, Appl |
| 858 | 29 | 52.7 | 36 | 1 | US-08-444-733-77 | Sequence 77, Appl |
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| 860 | 29 | 52.7 | 36 | 1 | US-08-464-134-77 | Sequence 77, Appl |
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| 862 | 29 | 52.7 | 36 | 1 | US-08-461-361-77 | Sequence 77, Appl |
| 863 | 29 | 52.7 | 36 | 1 | US-08-485-910-71 | Sequence 71, Appl |
| 864 | 29 | 52.7 | 36 | 1 | US-08-485-910-77 | Sequence 77, Appl |
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| 866 | 29 | 52.7 | 36 | 4 | PCT-US95-06266-61 | Sequence 61, Appl |
| 867 | 29 | 52.7 | 37 | 2 | US-08-793-792-9 | Sequence 9, Appli |
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| 869 | 29 | 52.7 | 44 | 1 | US-08-208-108-8 | Sequence 8, Appli |
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| 874 | 29 | 52.7 | 44 | 1 | US-08-485-910-73 | Sequence 73, Appl |
| 875 | 29 | 52.7 | 44 | 4 | PCT-US95-06266-57 | Sequence 57, Appl |
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| 877 | 29 | 52.7 | 47 | 2 | US-08-977-378-13 | Sequence 13, Appl |
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| 883 | 29 | 52.7 | 56 | 1 | US-08-464-134-81 | Sequence 81, Appl |
| 884 | 29 | 52.7 | 56 | 1 | US-08-461-361-81 | Sequence 81, Appl |
| 885 | 29 | 52.7 | 56 | 1 | US-08-485-910-81 | Sequence 81, Appl |
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| 893 | 29 | 52.7 | 61 | 2 | US-09-248-796A-22505 | Sequence 22505, A |
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| 902 | 29 | 52.7 | 86 | 1 | US-08-464-134-75 | Sequence 75, Appl |
| 903 | 29 | 52.7 | 86 | 1 | US-08-461-361-75 | Sequence 75, Appl |
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| 931 | 29 | 52.7 | 125 | 2 | US-09-314-844F-4 | Sequence 4, Appli |
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| 934 | 29 | 52.7 | 143 | 2 | US-09-270-767-33846 | Sequence 33846, A |
| 935 | 29 | 52.7 | 143 | 2 | US-09-270-767-49063 | Sequence 49063, A |
| 936 | 29 | 52.7 | 144 | 2 | US-09-107-532A-5210 | Sequence 5210, Ap |
| 937 | 29 | 52.7 | 146 | 2 | US-09-252-991A-25930 | Sequence 25930, A |
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| 952 | 29 | 52.7 | 170 | 2 | US-09-489-039A-13010 | Sequence 13010, A |
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| 960 | 29 | 52.7 | 178 | 2 | US-09-624-670-25 | Sequence 25, Appl |
| 961 | 29 | 52.7 | 180 | 2 | US-09-342-325C-56 | Sequence 56, Appl |
| 962 | 29 | 52.7 | 180 | 2 | US-09-107-532A-5901 | Sequence 5901, Ap |
| 963 | 29 | 52.7 | 180 | 2 | US-10-244-367-56 | Sequence 56, Appl |
| 964 | 29 | 52.7 | 182 | 2 | US-09-270-767-43121 | Sequence 43121, A |
| 965 | 29 | 52.7 | 182 | 2 | US-09-311-021-14 | Sequence 14, Appl |
| 966 | 29 | 52.7 | 183 | 2 | US-09-270-767-48846 | Sequence 48846, A |
| 967 | 29 | 52.7 | 184 | 2 | US-09-482-273-231 | Sequence 231, App |
| 968 | 29 | 52.7 | 184 | 2 | US-09-270-767-31979 | Sequence 31979, A |
| 969 | 29 | 52.7 | 184 | 2 | US-09-270-767-47196 | Sequence 47196, A |
| 970 | 29 | 52.7 | 185 | 2 | US-09-482-273-190 | Sequence 190, App |
| 971 | 29 | 52.7 | 190 | 2 | US-09-543-681A-8168 | Sequence 8168, Ap |
| 972 | 29 | 52.7 | 192 | 1 | US-07-949-812-3 | Sequence 3, Appli |
| 973 | 29 | 52.7 | 198 | 2 | US-09-270-767-43282 | Sequence 43282, A |
| 974 | 29 | 52.7 | 198 | 2 | US-09-981-087A-25 | Sequence 25, Appl |
| 975 | 29 | 52.7 | 198 | 2 | US-09-978-382A-25 | Sequence 25, Appl |
| 976 | 29 | 52.7 | 198 | 2 | US-09-978-740A-25 | Sequence 25, Appl |

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| 977 | 29 | 52.7 | 198 | 2 | US-09-978-729A-25 | Sequence 25, Appl |
| 978 | 29 | 52.7 | 198 | 2 | US-09-978-730-25 | Sequence 25, Appl |
| 979 | 29 | 52.7 | 201 | 2 | US-09-322-478-10 | Sequence 10, Appl |
| 980 | 29 | 52.7 | 201 | 2 | US-09-489-039A-8533 | Sequence 8533, Ap |
| 981 | 29 | 52.7 | 201 | 2 | US-09-586-106D-10 | Sequence 10, Appl |
| 982 | 29 | 52.7 | 201 | 2 | US-10-799-870-10 | Sequence 10, Appl |
| 983 | 29 | 52.7 | 204 | 1 | US-08-808-550-32 | Sequence 32, Appl |
| 984 | 29 | 52.7 | 213 | 2 | US-09-902-540-15826 | Sequence 15826, A |
| 985 | 29 | 52.7 | 218 | 2 | US-09-270-767-61022 | Sequence 61022, A |
| 986 | 29 | 52.7 | 219 | 2 | US-09-903-456-38 | Sequence 38, Appl |
| 987 | 29 | 52.7 | 219 | 2 | US-09-624-670-37 | Sequence 37, Appl |
| 988 | 29 | 52.7 | 220 | 2 | US-09-270-767-35795 | Sequence 35795, A |
| 989 | 29 | 52.7 | 220 | 2 | US-09-270-767-51012 | Sequence 51012, A |
| 990 | 29 | 52.7 | 221 | 1 | US-07-949-812-2 | Sequence 2, Appli |
| 991 | 29 | 52.7 | 222 | 2 | US-09-270-767-41517 | Sequence 41517, A |
| 992 | 29 | 52.7 | 224 | 1 | US-08-616-857-2 | Sequence 2, Appli |
| 993 | 29 | 52.7 | 224 | 2 | US-09-252-991A-25249 | Sequence 25249, A |
| 994 | 29 | 52.7 | 224 | 2 | US-09-546-013-22 | Sequence 22, Appl |
| 995 | 29 | 52.7 | 233 | 2 | US-09-270-767-32684 | Sequence 32684, A |
| 996 | 29 | 52.7 | 233 | 2 | US-09-270-767-47901 | Sequence 47901, A |
| 997 | 29 | 52.7 | 238 | 2 | US-09-257-179-80 | Sequence 80, Appl |
| 998 | 29 | 52.7 | 240 | 2 | US-09-489-847-143 | Sequence 143, App |
| 999 | 29 | 52.7 | 240 | 2 | US-09-270-767-45512 | Sequence 45512, A |
| 1000 | 29 | 52.7 | 244 | 2 | US-09-163-507-1 | Sequence 1, Appli |

ALIGNMENTS

```
RESULT 1
US-08-159-339A-1170
; Sequence 1170, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  1170:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  11 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-1170

  Query Match             100.0%;  Score 55;  DB 2;  Length 11;
  Best Local Similarity   100.0%;  Pred. No. 0.0058;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |||||||||
Db          1 PYAVCDKCL 9


RESULT 2
US-10-612-818-4
; Sequence 4, Application US/10612818
; Patent No. 6933123
; GENERAL INFORMATION:
;  APPLICANT: Impact Diagnostics
;  APPLICANT:  Impact Diagnostics
;  TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomaviruses
;  TITLE OF INVENTION:  18 for Detecting and/or Diagnosing Cervical and Other Human Papil
;  TITLE OF INVENTION:  Associated Cancers
;  FILE REFERENCE: 3352-2-2
;  CURRENT APPLICATION NUMBER: US/10/612,818
;  CURRENT FILING DATE:  2003-07-01
;  PRIOR APPLICATION NUMBER: US 60/394,172
;  PRIOR FILING DATE: 2002-07-02
;  PRIOR APPLICATION NUMBER: US 09/828,645
;  PRIOR FILING DATE: 2001-04-05
;  NUMBER OF SEQ ID NOS: 8
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
;   LENGTH: 22
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Derived from the E6 early coding region of HPV 16
US-10-612-818-4

  Query Match             100.0%;  Score 55;  DB 2;  Length 22;
  Best Local Similarity   100.0%;  Pred. No. 0.011;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |||||||||
Db          5 PYAVCDKCL 13


RESULT 3
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
;  APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
;  TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 FC
;  TITLE OF INVENTION:  TRANSCRIPTIONAL REGULATION
;  FILE REFERENCE: N73477C GCW
;  CURRENT APPLICATION NUMBER: US/09/701,080C
;  CURRENT FILING DATE:  2001-02-27
;  PRIOR APPLICATION NUMBER: GB 9811303.8
;  PRIOR FILING DATE: 1998-05-26
;  PRIOR APPLICATION NUMBER: GB 9900157.0
;  PRIOR FILING DATE: 1999-01-05
;  NUMBER OF SEQ ID NOS: 36
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
;   LENGTH: 151
;   TYPE: PRT
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; ORGANISM: Human papillomavirus
US-09-701-080C-18

Query Match 100.0%; Score 55; DB 2; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.073;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
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Db 59 PYAVCDKCL 67

RESULT 4
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: WOB1 AO INS
; CURRENT APPLICATION NUMBER: US/09/980,523A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-09-980-523A-2

Query Match 100.0%; Score 55; DB 2; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.077;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
||||||||| 
Db 66 PYAVCDKCL 74

RESULT 5
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; APPLICANT: Parmenter, Cheryl A.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; TITLE OF INVENTION: Cervical Cancer
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jagtiani & Associates
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; REFERENCE/DOCKET NUMBER: UNME-0001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 162 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
US-08-316-239B-3

Query Match 100.0%; Score 55; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.078;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
||||||||| 
Db 66 PYAVCDKCL 74

RESULT 6
US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; APPLICANT: Parmenter, Cheryl A.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; TITLE OF INVENTION: Cervical Cancer
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jagtiani & Associates
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; REFERENCE/DOCKET NUMBER: UNME-0001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 162 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO

US-08-316-239B-4

Query Match 100.0%; Score 55; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.078;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
||||||||||
Db 66 PYAVCDKCL 74

RESULT 7
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

Query Match 100.0%; Score 55; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.083;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
||||||||||
Db 4 PYAVCDKCL 12

RESULT 8
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

Query Match 100.0%; Score 55; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.083;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
||||||||||
Db 135 PYAVCDKCL 143

RESULT 9
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-12

Query Match 100.0%; Score 55; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.083;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
||||||||||
Db 4 PYAVCDKCL 12

RESULT 10
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-14

Query Match 100.0%; Score 55; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.083;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
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Db 135 PYAVCDKCL 143

RESULT 11
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOUL, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/09/462,993
; CURRENT FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Derivated from
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
; OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

Query Match 100.0%; Score 55; DB 2; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
||||||||| 
Db 94 PYAVCDKCL 102

RESULT 12
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

Query Match 100.0%; Score 55; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
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Db 66 PYAVCDKCL 74

RESULT 13
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match 100.0%; Score 55; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
||||||||| 
Db 66 PYAVCDKCL 74

RESULT 14
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 55; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 PYAVCDKCL 9
              |||||||||
Db         66 PYAVCDKCL 74


RESULT 15
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-4

  Query Match             100.0%;  Score 55;  DB 2;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 0.13;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |||||||||
Db        172 PYAVCDKCL 180


RESULT 16
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-10

  Query Match             100.0%;  Score 55;  DB 2;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.14;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |||||||||
Db        191 PYAVCDKCL 199


RESULT 17
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-6

  Query Match             100.0%;  Score 55;  DB 2;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 0.17;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |||||||||
Db        172 PYAVCDKCL 180


RESULT 18
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-14

  Query Match             100.0%;  Score 55;  DB 2;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 0.18;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |||||||||
Db        191 PYAVCDKCL 199


RESULT 19
```

```
US-08-934-915-162
; Sequence 162, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  162:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-162

  Query Match             90.9%;  Score 50;  DB 1;  Length 20;
  Best Local Similarity   88.9%;  Pred. No. 0.068;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |||||:|||
Db          5 PYAVCNKCL 13


RESULT 20
US-08-159-339A-1169
; Sequence 1169, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  1169:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  8 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-1169

  Query Match             74.5%;  Score 41;  DB 2;  Length 8;
  Best Local Similarity   100.0%;  Pred. No. 4.6e+05;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 AVCDKCL 9
              |||||||
Db          1 AVCDKCL 7


RESULT 21
US-08-159-339A-561
; Sequence 561, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
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;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  561:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  10 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-561

  Query Match             74.5%;  Score 41;  DB 2;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 1;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 AVCDKCL 9
              |||||||
Db          1 AVCDKCL 7


RESULT 22
US-09-513-999C-7370
; Sequence 7370, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
;  APPLICANT: Dumas Milne Edwards, J.B.
;  APPLICANT:  Duclert, A.
;  APPLICANT:  Giordano, J.Y.
;  TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
;  FILE REFERENCE: 59.US2.REG
;  CURRENT APPLICATION NUMBER: US/09/513,999C
;  CURRENT FILING DATE:  2000-02-24
;  PRIOR APPLICATION NUMBER: US 60/122,487
;  PRIOR FILING DATE: 1999-02-26
;  NUMBER OF SEQ ID NOS: 36681
;  SOFTWARE: Patent.pm
; SEQ ID NO 7370
;   LENGTH: 74
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-513-999C-7370

  Query Match             70.9%;  Score 39;  DB 2;  Length 74;
  Best Local Similarity   75.0%;  Pred. No. 15;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKC 8
              ||  ||||
Db         23 PYNKCDKC 30


RESULT 23
US-08-889-291-18
; Sequence 18, Application US/08889291
; Patent No. 5994519
;  GENERAL INFORMATION:
;    APPLICANT:  Osbourn, Jane K
;    APPLICANT:  Derbyshire, Elaine J
;    APPLICANT:  McCafferty, John G
;    APPLICANT:  Vaughan, Tristan J
;    APPLICANT:  Johnson, Kevin S
;    TITLE OF INVENTION:  Labelling and selection of molecules
;    NUMBER OF SEQUENCES:  36
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray & Borun
;      STREET:  6300 Sears Tower, 233 South Wacker Drive
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  USA
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25 (EPO)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/889,291
;      FILING DATE:  08-JUL-1997
;      CLASSIFICATION:  435
;      CLASSIFICATION:  16/00, A61K 39/395
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/GB97/01835
;      FILING DATE:  08-JUL-1997
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9614292.2
;      FILING DATE:  08-JUL-1996
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9624880.2
;      FILING DATE:  29-NOV-1996
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9712818.5
;      FILING DATE:  18-JUN-1997
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  David W. Clough
;      REGISTRATION NUMBER:  36,107
;      REFERENCE/DOCKET NUMBER:  28111/34063
;  INFORMATION FOR SEQ ID NO:  18:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  16 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
US-08-889-291-18

  Query Match             69.1%;  Score 38;  DB 1;  Length 16;
  Best Local Similarity   71.4%;  Pred. No. 5;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDK 7
              |||:||:
Db          9 PYAICDR 15


RESULT 24
US-09-098-244-18
; Sequence 18, Application US/09098244
; Patent No. 6180336
; GENERAL INFORMATION:
;    APPLICANT:  Osbourn, Jane K
;    APPLICANT:  Derbyshire, Elaine J
;    APPLICANT:  McCafferty, John G
;    APPLICANT:  Vaughan, Tristan J
;    APPLICANT:  Johnson, Kevin S
;    TITLE OF INVENTION:  Labelling and selection of molecules
;    NUMBER OF SEQUENCES:  36
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray & Borun
;      STREET:  6300 Sears Tower, 233 South Wacker Drive
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  USA
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
```

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;       SOFTWARE:  PatentIn Release #1.0, Version #1.25 (EPO)
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/09/098,244
;       FILING DATE:  17-JUN-1998
;       CLASSIFICATION:  435
;       CLASSIFICATION:  16/00, A61K 39/395
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 08/889,291
;       FILING DATE:  08-JUL-1997
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  PCT/GB97/01835
;       FILING DATE:  08-JUL-1997
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  GB 9614292.2
;       FILING DATE:  08-JUL-1996
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  GB 9624880.2
;       FILING DATE:  29-NOV-1996
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  GB 9712818.5
;       FILING DATE:  18-JUN-1997
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  David W. Clough
;       REGISTRATION NUMBER:  36,107
;       REFERENCE/DOCKET NUMBER:  28111/34800
;   INFORMATION FOR SEQ ID NO:  18:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  16 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
US-09-098-244-18

  Query Match             69.1%;  Score 38;  DB 2;  Length 16;
  Best Local Similarity   71.4%;  Pred. No. 5;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDK 7
                |||:||:
Db          9 PYAICDR 15


RESULT 25
US-09-375-314-18
; Sequence 18, Application US/09375314
; Patent No. 6342588
;  GENERAL INFORMATION:
;    APPLICANT:  Osbourn, Jane K
;    APPLICANT:  Derbyshire, Elaine J
;    APPLICANT:  McCafferty, John G
;    APPLICANT:  Vaughan, Tristan J
;    APPLICANT:  Johnson, Kevin S
;    TITLE OF INVENTION:  Labelling and selection of molecules
;    NUMBER OF SEQUENCES:  36
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray & Borun
;      STREET:  6300 Sears Tower, 233 South Wacker Drive
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  USA
;      ZIP:  60606-6402
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25 (EPO)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/375,314
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/889,291
;      FILING DATE:  08-JUL-1997
;      APPLICATION NUMBER:  PCT/GB97/01835
;      FILING DATE:  08-JUL-1997
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9614292.2
;      FILING DATE:  08-JUL-1996
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9624880.2
;      FILING DATE:  29-NOV-1996
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9712818.5
;      FILING DATE:  18-JUN-1997
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  David W. Clough
;      REGISTRATION NUMBER:  36,107
;      REFERENCE/DOCKET NUMBER:  28111/34063
;  INFORMATION FOR SEQ ID NO:  18:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  16 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
US-09-375-314-18

  Query Match             69.1%;  Score 38;  DB 2;  Length 16;
  Best Local Similarity   71.4%;  Pred. No. 5;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDK 7
                |||:||:
Db          9 PYAICDR 15


RESULT 26
US-09-767-395-18
; Sequence 18, Application US/09767395
; Patent No. 6489123
;   GENERAL INFORMATION:
;       APPLICANT: Osbourn, Jane K
;                  Derbyshire, Elaine J
;                  McCafferty, John G
;                  Vaughan, Tristan J
;                  Johnson, Kevin S
;       TITLE OF INVENTION: Labelling and selection of molecules
;       NUMBER OF SEQUENCES: 36
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
;            STREET: 6300 Sears Tower, 233 South Wacker Drive
;            CITY: Chicago
;            STATE: Illinois
;            COUNTRY: USA
;            ZIP: 60606-6402
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/767,395
;            FILING DATE: 23-Jan-2001
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 09/098,244
;            FILING DATE: <Unknown>
;            APPLICATION NUMBER: PCT/GB97/01835
;            FILING DATE: 08-JUL-1997
;            APPLICATION NUMBER: GB 9614292.2
;            FILING DATE: 08-JUL-1996
;            APPLICATION NUMBER: GB 9624880.2
;            FILING DATE: 29-NOV-1996
;            APPLICATION NUMBER: GB 9712818.5
;            FILING DATE: 18-JUN-1997
;       ATTORNEY/AGENT INFORMATION:
;            NAME: David W. Clough
;            REGISTRATION NUMBER: 36,107
;            REFERENCE/DOCKET NUMBER: 28111/34800
;
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;   INFORMATION FOR SEQ ID NO: 18:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 16 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        SEQUENCE DESCRIPTION: SEQ ID NO: 18:
US-09-767-395-18

  Query Match             69.1%;  Score 38;  DB 2;  Length 16;
  Best Local Similarity   71.4%;  Pred. No. 5;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDK 7
              |||:||:
Db          9 PYAICDR 15


RESULT 27
US-08-159-339A-74
; Sequence 74, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  74:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-74

  Query Match             67.3%;  Score 37;  DB 2;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 4.6e+05;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 VCDKCL 9
              ||||||
Db          1 VCDKCL 6


RESULT 28
US-08-159-339A-249
; Sequence 249, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  249:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-249

  Query Match             67.3%;  Score 37;  DB 2;  Length 9;
  Best Local Similarity   77.8%;  Pred. No. 4.6e+05;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |||| || |
Db          1 PYAVADKAL 9


RESULT 29
US-08-247-904B-10
; Sequence 10, Application US/08247904B
; Patent No. 5981699
;  GENERAL INFORMATION:
;    APPLICANT:  Rolfe, Mark
;    APPLICANT:  Eckstein, Jens W.
```

```
;    APPLICANT:  Draetta, Giulio
;    TITLE OF INVENTION:  Human Ubiquitin Conjugating Enzyme
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Foley, Hoag & Eliot
;      STREET:  One Post Office Square
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  ASCII(text)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/247,904B
;      FILING DATE:  23-MAY-1994
;      CLASSIFICATION:  530
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Vincent, Matthew P.
;      REGISTRATION NUMBER:  36,709
;      REFERENCE/DOCKET NUMBER:  MIV-029.01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 832-1000
;      TELEFAX:  (617) 832-7000
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  158 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-247-904B-10

  Query Match             67.3%;  Score 37;  DB 1;  Length 158;
  Best Local Similarity   55.6%;  Pred. No. 67;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |:| | ||:
Db         61 PHAACHKCI 69


RESULT 30
US-08-767-942A-19
; Sequence 19, Application US/08767942A
; Patent No. 6068982
;  GENERAL INFORMATION:
;    APPLICANT:  Rolfe, Mark
;    APPLICANT:  Chiu, M. Isabel
;    APPLICANT:  Berlin, Vivian
;    APPLICANT:  Damagnez, Veronique
;    APPLICANT:  Draetta, Giulio
;    APPLICANT:  Guillaume, Cottarel
;    TITLE OF INVENTION:  UBIQUITIN CONJUGATING ENZYMES
;    NUMBER OF SEQUENCES:  45
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  FOLEY, HOAG & ELIOT LLP
;      STREET:  One Post Office Square
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109-2170
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/767,942A
;      FILING DATE:  17-DEC-1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Vincent, Matthew P.
;      REGISTRATION NUMBER:  36,709
;      REFERENCE/DOCKET NUMBER:  MIV-029.04
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-832-1000
;      TELEFAX:  617-832-7000
;  INFORMATION FOR SEQ ID NO:  19:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  158 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-767-942A-19

  Query Match             67.3%;  Score 37;  DB 2;  Length 158;
  Best Local Similarity   55.6%;  Pred. No. 67;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |:| | ||:
Db         61 PHAACHKCI 69


RESULT 31
US-08-117-083-14
; Sequence 14, Application US/08117083
; Patent No. 5719054
;  GENERAL INFORMATION:
;    APPLICANT:  Boursnell, Michael E.
;    APPLICANT:  Inglis, Stephen C.
;    APPLICANT:  Munro, Alan J.
;    TITLE OF INVENTION:  Recombinant Virus Vectors Encoding Human
;    TITLE OF INVENTION:  Papilloma Virus Proteins
;    NUMBER OF SEQUENCES:  70
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Walter H. Dreger
;      STREET:  4 Embarcadero Center, Suite 3400
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/117,083
;      FILING DATE:  10-SEP-1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Dreger, Walter H.
;      REGISTRATION NUMBER:  24,190
;      REFERENCE/DOCKET NUMBER:  A-58783
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-781-1989
;      TELEFAX:  415-398-3249
;      TELEX:  910 277299
;  INFORMATION FOR SEQ ID NO:  14:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  271 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    FEATURE:
;      NAME/KEY:  Protein
;      LOCATION:  1..271
;      OTHER INFORMATION:  /note= "Xaa refers to stop codon in
;      OTHER INFORMATION:  the open reading frame."
US-08-117-083-14

  Query Match             67.3%;  Score 37;  DB 1;  Length 271;
  Best Local Similarity   55.6%;  Pred. No. 1.1e+02;
```

```
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |:| | ||:
Db         62 PHAACHKCI 70


RESULT 32
US-09-485-885-21
; Sequence 21, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 21
;   LENGTH: 278
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-21

  Query Match             67.3%;  Score 37;  DB 2;  Length 278;
  Best Local Similarity   55.6%;  Pred. No. 1.2e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |:| | ||:
Db        172 PHAACHKCI 180


RESULT 33
US-09-485-885-23
; Sequence 23, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 23
;   LENGTH: 383
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-23

  Query Match             67.3%;  Score 37;  DB 2;  Length 383;
  Best Local Similarity   55.6%;  Pred. No. 1.6e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |:| | ||:
Db        172 PHAACHKCI 180


RESULT 34
US-10-012-819-6
; Sequence 6, Application US/10012819
; Patent No. 6916615
; GENERAL INFORMATION:
;  APPLICANT: Legrain, Pierre
;  APPLICANT:  Selig, Luc
;  APPLICANT:  Rain, Jean-Christophe
;  TITLE OF INVENTION: Collection of Prokaryotic DNA for Two-Hybrid System, Helicobacter
;  TITLE OF INVENTION:  pylori Protein-Protein Interactions and Applications thereof
;  FILE REFERENCE: B5053
;  CURRENT APPLICATION NUMBER: US/10/012,819
;  CURRENT FILING DATE:  2001-10-30
;  PRIOR APPLICATION NUMBER: EP 99401066.8
;  PRIOR FILING DATE: 1999-04-30
;  NUMBER OF SEQ ID NOS: 278
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
;   LENGTH: 34
;   TYPE: PRT
;   ORGANISM: Helicobacter pylori
US-10-012-819-6

  Query Match             65.5%;  Score 36;  DB 2;  Length 34;
  Best Local Similarity   71.4%;  Pred. No. 22;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YAVCDKC 8
              | ||:||
Db          5 YGVCEKC 11


RESULT 35
US-09-949-016-8725
; Sequence 8725, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8725
;   LENGTH: 464
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-8725

  Query Match             65.5%;  Score 36;  DB 2;  Length 464;
  Best Local Similarity   62.5%;  Pred. No. 2.7e+02;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKC 8
              ||  || |
Db        407 PYGFCDHC 414


RESULT 36
US-09-949-016-8726
; Sequence 8726, Application US/09949016
```

```
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8726
;   LENGTH: 464
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-8726

  Query Match             65.5%;  Score 36;  DB 2;  Length 464;
  Best Local Similarity   62.5%;  Pred. No. 2.7e+02;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKC 8
              ||  || |
Db        407 PYGFCDHC 414


RESULT 37
US-09-949-016-8727
; Sequence 8727, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8727
;   LENGTH: 464
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-8727

  Query Match             65.5%;  Score 36;  DB 2;  Length 464;
  Best Local Similarity   62.5%;  Pred. No. 2.7e+02;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKC 8
              ||  || |
Db        407 PYGFCDHC 414


RESULT 38
US-09-949-016-8728
; Sequence 8728, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8728
;   LENGTH: 464
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-8728

  Query Match             65.5%;  Score 36;  DB 2;  Length 464;
  Best Local Similarity   62.5%;  Pred. No. 2.7e+02;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKC 8
              ||  || |
Db        407 PYGFCDHC 414


RESULT 39
US-09-949-016-8729
; Sequence 8729, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8729
;   LENGTH: 464
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-8729

  Query Match             65.5%;  Score 36;  DB 2;  Length 464;
  Best Local Similarity   62.5%;  Pred. No. 2.7e+02;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKC 8
              ||  || |
Db        407 PYGFCDHC 414


RESULT 40
US-09-949-016-8730
; Sequence 8730, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
```

```
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8730
;   LENGTH: 464
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-8730

  Query Match             65.5%;  Score 36;  DB 2;  Length 464;
  Best Local Similarity   62.5%;  Pred. No. 2.7e+02;
  Matches    5;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKC 8
              ||  || |
Db        407 PYGFCDHC 414


RESULT 41
US-09-949-016-7517
; Sequence 7517, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7517
;   LENGTH: 2123
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-7517

  Query Match             65.5%;  Score 36;  DB 2;  Length 2123;
  Best Local Similarity   77.8%;  Pred. No. 1.2e+03;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    2;  Gaps    1;

Qy          1 PYAVCDKCL 9
              ||  |||||
Db        799 PY--CDKCL 805


RESULT 42
US-09-961-403-7
; Sequence 7, Application US/09961403
; Patent No. 6780594
; GENERAL INFORMATION:
;  APPLICANT: HE-STUMPP, HOLGER
;  APPLICANT:  HAENDLER, BERNARD
;  APPLICANT:  KRAETZSCHMAR, JOERN
;  APPLICANT:  KREFT, BERTHOLT
;  APPLICANT:  WINTERHAGER, ELKE
;  APPLICANT:  REGIDOR, PEDRO
;  APPLICANT:  SCOTTI, SIMONE
;  TITLE OF INVENTION: METHOD FOR IN VITRO DIAGNOSIS OF ENDOMETRIOSIS
;  FILE REFERENCE: SCH-1789
;  CURRENT APPLICATION NUMBER: US/09/961,403
;  CURRENT FILING DATE:  2001-09-25
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
;   LENGTH: 3070
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-961-403-7

  Query Match             65.5%;  Score 36;  DB 2;  Length 3070;
  Best Local Similarity   77.8%;  Pred. No. 1.7e+03;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    2;  Gaps    1;

Qy          1 PYAVCDKCL 9
              ||  |||||
Db        783 PY--CDKCL 789


RESULT 43
US-09-562-702A-8
; Sequence 8, Application US/09562702A
; Patent No. 6632790
; GENERAL INFORMATION:
;  APPLICANT: Yurchenco, Peter
;  TITLE OF INVENTION: Laminin 2 and Methods for Its Use
;  FILE REFERENCE: 99-274-B
;  CURRENT APPLICATION NUMBER: US/09/562,702A
;  CURRENT FILING DATE:  2000-04-28
;  PRIOR APPLICATION NUMBER: 60/155,945
;  PRIOR FILING DATE: 1999-09-24
;  PRIOR APPLICATION NUMBER: 60/143,289
;  PRIOR FILING DATE: 1999-07-12
;  PRIOR APPLICATION NUMBER: 60/139,198
;  PRIOR FILING DATE: 1999-06-15
;  PRIOR APPLICATION NUMBER: 60/131,720
;  PRIOR FILING DATE: 1999-04-30
;  NUMBER OF SEQ ID NOS: 32
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
;   LENGTH: 3088
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-562-702A-8

  Query Match             65.5%;  Score 36;  DB 2;  Length 3088;
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Db        761 PY--CDKCL 767


RESULT 44
US-09-562-702A-4
; Sequence 4, Application US/09562702A
; Patent No. 6632790
; GENERAL INFORMATION:
;  APPLICANT: Yurchenco, Peter
;  TITLE OF INVENTION: Laminin 2 and Methods for Its Use
;  FILE REFERENCE: 99-274-B
;  CURRENT APPLICATION NUMBER: US/09/562,702A
;  CURRENT FILING DATE:  2000-04-28
;  PRIOR APPLICATION NUMBER: 60/155,945
;  PRIOR FILING DATE: 1999-09-24
;  PRIOR APPLICATION NUMBER: 60/143,289
;  PRIOR FILING DATE: 1999-07-12
;  PRIOR APPLICATION NUMBER: 60/139,198
;  PRIOR FILING DATE: 1999-06-15
;  PRIOR APPLICATION NUMBER: 60/131,720
;  PRIOR FILING DATE: 1999-04-30
;  NUMBER OF SEQ ID NOS: 32
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
;   LENGTH: 3089
;   TYPE: PRT
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; ORGANISM: Homo sapiens
US-09-562-702A-4

Query Match 65.5%; Score 36; DB 2; Length 3089;
Best Local Similarity 77.8%; Pred. No. 1.7e+03;
Matches 7; Conservative 0; Mismatches 0; Indels 2; Gaps 1;

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Db 761 PY--CDKCL 767

RESULT 45
US-09-562-702A-2
; Sequence 2, Application US/09562702A
; Patent No. 6632790
; GENERAL INFORMATION:
; APPLICANT: Yurchenco, Peter
; TITLE OF INVENTION: Laminin 2 and Methods for Its Use
; FILE REFERENCE: 99-274-B
; CURRENT APPLICATION NUMBER: US/09/562,702A
; CURRENT FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: 60/155,945
; PRIOR FILING DATE: 1999-09-24
; PRIOR APPLICATION NUMBER: 60/143,289
; PRIOR FILING DATE: 1999-07-12
; PRIOR APPLICATION NUMBER: 60/139,198
; PRIOR FILING DATE: 1999-06-15
; PRIOR APPLICATION NUMBER: 60/131,720
; PRIOR FILING DATE: 1999-04-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-562-702A-2

Query Match 65.5%; Score 36; DB 2; Length 3110;
Best Local Similarity 77.8%; Pred. No. 1.7e+03;
Matches 7; Conservative 0; Mismatches 0; Indels 2; Gaps 1;

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Db 783 PY--CDKCL 789

RESULT 46
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; Sequence 6, Application US/09562702A
; Patent No. 6632790
; GENERAL INFORMATION:
; APPLICANT: Yurchenco, Peter
; TITLE OF INVENTION: Laminin 2 and Methods for Its Use
; FILE REFERENCE: 99-274-B
; CURRENT APPLICATION NUMBER: US/09/562,702A
; CURRENT FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: 60/155,945
; PRIOR FILING DATE: 1999-09-24
; PRIOR APPLICATION NUMBER: 60/143,289
; PRIOR FILING DATE: 1999-07-12
; PRIOR APPLICATION NUMBER: 60/139,198
; PRIOR FILING DATE: 1999-06-15
; PRIOR APPLICATION NUMBER: 60/131,720
; PRIOR FILING DATE: 1999-04-30
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-562-702A-6

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Matches 7; Conservative 0; Mismatches 0; Indels 2; Gaps 1;

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Db 783 PY--CDKCL 789

RESULT 47
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; Sequence 7, Application US/09561709B
; Patent No. 6682911
; GENERAL INFORMATION:
; APPLICANT: Burgeson, Robert
; APPLICANT: Champliaud, Marie-France
; APPLICANT: Olson, Pamela
; APPLICANT: Koch, Manuel
; APPLICANT: Brunken, William
; TITLE OF INVENTION: LAMININS AND USES THEREOF
; FILE REFERENCE: 10287-060001
; CURRENT APPLICATION NUMBER: US/09/561,709B
; CURRENT FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: US 09/168,949
; PRIOR FILING DATE: 1998-10-09
; PRIOR APPLICATION NUMBER: US 60/061,609
; PRIOR FILING DATE: 1997-10-10
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 3110
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-561-709B-7

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Best Local Similarity 77.8%; Pred. No. 1.7e+03;
Matches 7; Conservative 0; Mismatches 0; Indels 2; Gaps 1;

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Db 783 PY--CDKCL 789

RESULT 48
US-09-917-254-86
; Sequence 86, Application US/09917254
; Patent No. 6703204
; GENERAL INFORMATION:
; APPLICANT: Mutter, George
; APPLICANT: Baak, Jan
; TITLE OF INVENTION: Prognostic Classification of Breast Cancer
; FILE REFERENCE: B0801/7224(JRV)
; CURRENT APPLICATION NUMBER: US/09/917,254
; CURRENT FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: US 60/222,093
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: PatentIn version 3.0
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; LENGTH: 3110
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US-09-917-254-86

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Db 783 PY--CDKCL 789

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RESULT 49
US-09-949-016-5937
; Sequence 5937, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5937
;   LENGTH: 3110
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-5937

  Query Match             65.5%;  Score 36;  DB 2;  Length 3110;
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Db        783 PY--CDKCL 789


RESULT 50
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; Sequence 4, Application US/08460309
; Patent No. 5837496
;  GENERAL INFORMATION:
;    APPLICANT:  Engvall, Eva
;    APPLICANT:  Leivo, Ilmo
;    TITLE OF INVENTION:  Nucleic Acids Encoding Merosin, Merosin
;    TITLE OF INVENTION:  Fragments and Uses Thereof
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Campbell and Flores
;      STREET:  4370 La Jolla Village Drive, Suite 700
;      CITY:  San Diego
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  92122
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
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;      APPLICATION NUMBER:  US/08/460,309
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/125,077
;      FILING DATE:  22-SEP-1993
;      APPLICATION NUMBER:  US PCT/US 94/10730
;      FILING DATE:  21-SEP-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/472,319
;      FILING DATE:  30-JAN-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/919,951
;      FILING DATE:  27-JUL-1992
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Campbell, Cathryn A.
;      REGISTRATION NUMBER:  31,815
;      REFERENCE/DOCKET NUMBER:  P-LA 9721
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (619) 535-9001
;      TELEFAX:  (619) 535-8949
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  3111 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
US-08-460-309-4

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Db        783 PY--CDKCL 789


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Listing first 1000 summaries

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| 48 | 40 | 72.7 | 427 | 4 | US-10-425-115-304190 | Sequence 304190, |
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| 107 | 36 | 65.5 | 309 | 5 | US-10-878-523-102 | Sequence 102, App |
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| 112 | 36 | 65.5 | 367 | 5 | US-10-878-523-105 | Sequence 105, App |
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| 117 | 36 | 65.5 | 1064 | 4 | US-10-437-963-132415 | Sequence 132415, |
| 118 | 36 | 65.5 | 1070 | 5 | US-10-947-052-5 | Sequence 5, Appli |
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| 120 | 36 | 65.5 | 2231 | 4 | US-10-369-493-1830 | Sequence 1830, Ap |
| 121 | 36 | 65.5 | 3070 | 3 | US-09-961-403-7 | Sequence 7, Appli |
| 122 | 36 | 65.5 | 3122 | 5 | US-10-723-860-698 | Sequence 698, App |
| 123 | 36 | 65.5 | 3150 | 5 | US-10-450-763-50773 | Sequence 50773, A |
| 124 | 36 | 65.5 | 4640 | 4 | US-10-408-765A-2103 | Sequence 2103, Ap |
| 125 | 36 | 65.5 | 4641 | 5 | US-10-850-591-2 | Sequence 2, Appli |
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| 386 | 33 | 60.0 | 688 | 4 | US-10-369-493-5438 | Sequence 5438, Ap |
| 387 | 33 | 60.0 | 698 | 4 | US-10-102-554-2 | Sequence 2, Appli |
| 388 | 33 | 60.0 | 698 | 5 | US-10-809-075-2 | Sequence 2, Appli |
| 389 | 33 | 60.0 | 704 | 3 | US-09-738-973-191 | Sequence 191, App |
| 390 | 33 | 60.0 | 704 | 3 | US-09-854-133-191 | Sequence 191, App |
| 391 | 33 | 60.0 | 704 | 4 | US-10-144-649A-191 | Sequence 191, App |
| 392 | 33 | 60.0 | 708 | 4 | US-10-108-260A-4329 | Sequence 4329, Ap |

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| 394 | 33 | 60.0 | 740 | 3 | US-09-771-161A-265 | Sequence 265, App |
| 395 | 33 | 60.0 | 740 | 3 | US-09-771-161A-266 | Sequence 266, App |
| 396 | 33 | 60.0 | 740 | 5 | US-10-872-645-3 | Sequence 3, Appli |
| 397 | 33 | 60.0 | 740 | 5 | US-10-745-237-354 | Sequence 354, App |
| 398 | 33 | 60.0 | 741 | 4 | US-10-437-963-118054 | Sequence 118054, |
| 399 | 33 | 60.0 | 745 | 5 | US-10-809-075-4 | Sequence 4, Appli |
| 400 | 33 | 60.0 | 759 | 4 | US-10-015-115-70 | Sequence 70, Appl |
| 401 | 33 | 60.0 | 774 | 6 | US-11-097-143-7749 | Sequence 7749, Ap |
| 402 | 33 | 60.0 | 777 | 4 | US-10-015-115-69 | Sequence 69, Appl |
| 403 | 33 | 60.0 | 777 | 4 | US-10-362-571-8 | Sequence 8, Appli |
| 404 | 33 | 60.0 | 816 | 4 | US-10-015-115-71 | Sequence 71, Appl |
| 405 | 33 | 60.0 | 848 | 4 | US-10-437-963-134694 | Sequence 134694, |
| 406 | 33 | 60.0 | 851 | 4 | US-10-282-122A-78088 | Sequence 78088, A |
| 407 | 33 | 60.0 | 868 | 3 | US-09-815-242-11233 | Sequence 11233, A |
| 408 | 33 | 60.0 | 868 | 4 | US-10-282-122A-58502 | Sequence 58502, A |
| 409 | 33 | 60.0 | 868 | 4 | US-10-282-122A-67041 | Sequence 67041, A |
| 410 | 33 | 60.0 | 891 | 4 | US-10-015-115-18 | Sequence 18, Appl |
| 411 | 33 | 60.0 | 894 | 4 | US-10-437-963-110757 | Sequence 110757, |
| 412 | 33 | 60.0 | 906 | 3 | US-09-863-901-6 | Sequence 6, Appli |
| 413 | 33 | 60.0 | 906 | 4 | US-10-307-389-6 | Sequence 6, Appli |
| 414 | 33 | 60.0 | 939 | 4 | US-10-188-248-40 | Sequence 40, Appl |
| 415 | 33 | 60.0 | 969 | 4 | US-10-282-122A-63852 | Sequence 63852, A |
| 416 | 33 | 60.0 | 970 | 5 | US-10-775-180-624 | Sequence 624, App |
| 417 | 33 | 60.0 | 970 | 5 | US-10-775-204-1641 | Sequence 1641, Ap |
| 418 | 33 | 60.0 | 978 | 4 | US-10-437-963-159563 | Sequence 159563, |
| 419 | 33 | 60.0 | 993 | 4 | US-10-437-963-201464 | Sequence 201464, |
| 420 | 33 | 60.0 | 1041 | 4 | US-10-437-963-102649 | Sequence 102649, |
| 421 | 33 | 60.0 | 1078 | 4 | US-10-425-115-293711 | Sequence 293711, |
| 422 | 33 | 60.0 | 1138 | 4 | US-10-043-487-266 | Sequence 266, App |
| 423 | 33 | 60.0 | 1149 | 4 | US-10-369-493-22391 | Sequence 22391, A |
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| 426 | 33 | 60.0 | 1322 | 5 | US-10-450-763-54996 | Sequence 54996, A |
| 427 | 33 | 60.0 | 1322 | 5 | US-10-450-763-56050 | Sequence 56050, A |
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| 429 | 33 | 60.0 | 1433 | 4 | US-10-282-122A-46295 | Sequence 46295, A |
| 430 | 33 | 60.0 | 1517 | 4 | US-10-425-115-271795 | Sequence 271795, |
| 431 | 33 | 60.0 | 1542 | 4 | US-10-408-765A-269 | Sequence 269, App |
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| 433 | 33 | 60.0 | 1581 | 4 | US-10-425-115-293701 | Sequence 293701, |
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| 435 | 33 | 60.0 | 1759 | 4 | US-10-425-115-271806 | Sequence 271806, |
| 436 | 33 | 60.0 | 1770 | 4 | US-10-425-115-271828 | Sequence 271828, |
| 437 | 33 | 60.0 | 1807 | 5 | US-10-723-860-1336 | Sequence 1336, Ap |
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| 452 | 32.5 | 59.1 | 524 | 4 | US-10-027-801-10 | Sequence 10, Appl |
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| 458 | 32.5 | 59.1 | 1464 | 3 | US-09-842-777-10 | Sequence 10, Appl |
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| 466 | 32 | 58.2 | 14 | 5 | US-10-433-919-9 | Sequence 9, Appli |
| 467 | 32 | 58.2 | 14 | 5 | US-10-433-919-11 | Sequence 11, Appl |
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| 469 | 32 | 58.2 | 30 | 4 | US-10-296-734-175 | Sequence 175, App |
| 470 | 32 | 58.2 | 37 | 4 | US-10-156-761-12484 | Sequence 12484, A |
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| 472 | 32 | 58.2 | 37 | 4 | US-10-282-122A-64888 | Sequence 64888, A |
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| 477 | 32 | 58.2 | 54 | 4 | US-10-424-599-258412 | Sequence 258412, |
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| 483 | 32 | 58.2 | 69 | 4 | US-10-015-115-75 | Sequence 75, Appl |
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| 508 | 32 | 58.2 | 148 | 4 | US-10-424-599-189229 | Sequence 189229, |
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| 525 | 32 | 58.2 | 177 | 4 | US-10-425-115-257934 | Sequence 257934, |
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| 568 | 32 | 58.2 | 397 | 5 | US-10-473-127-1139 | Sequence 1139, Ap |
| 569 | 32 | 58.2 | 397 | 5 | US-10-473-127-1140 | Sequence 1140, Ap |
| 570 | 32 | 58.2 | 397 | 5 | US-10-473-127-1143 | Sequence 1143, Ap |
| 571 | 32 | 58.2 | 397 | 5 | US-10-473-127-1144 | Sequence 1144, Ap |
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| 595 | 32 | 58.2 | 431 | 5 | US-10-680-287A-669 | Sequence 669, App |
| 596 | 32 | 58.2 | 431 | 5 | US-10-477-173-669 | Sequence 669, App |
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| 608 | 32 | 58.2 | 497 | 4 | US-10-437-963-153262 | Sequence 153262, |
| 609 | 32 | 58.2 | 506 | 4 | US-10-225-068-180 | Sequence 180, App |
| 610 | 32 | 58.2 | 506 | 4 | US-10-374-780A-366 | Sequence 366, App |
| 611 | 32 | 58.2 | 506 | 5 | US-10-225-068-180 | Sequence 180, App |
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| 614 | 32 | 58.2 | 528 | 5 | US-10-745-237-252 | Sequence 252, App |
| 615 | 32 | 58.2 | 531 | 5 | US-10-469-204-137 | Sequence 137, App |
| 616 | 32 | 58.2 | 533 | 4 | US-10-408-765A-2278 | Sequence 2278, Ap |
| 617 | 32 | 58.2 | 536 | 4 | US-10-408-765A-1902 | Sequence 1902, Ap |
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| 624 | 32 | 58.2 | 547 | 3 | US-09-779-307-12 | Sequence 12, Appl |
| 625 | 32 | 58.2 | 547 | 3 | US-09-779-307-13 | Sequence 13, Appl |
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| 634 | 32 | 58.2 | 606 | 4 | US-10-437-963-195106 | Sequence 195106, |
| 635 | 32 | 58.2 | 606 | 5 | US-10-756-149-5371 | Sequence 5371, Ap |
| 636 | 32 | 58.2 | 611 | 6 | US-11-097-143-9000 | Sequence 9000, Ap |
| 637 | 32 | 58.2 | 613 | 6 | US-11-097-143-14598 | Sequence 14598, A |
| 638 | 32 | 58.2 | 627 | 4 | US-10-437-963-124295 | Sequence 124295, |
| 639 | 32 | 58.2 | 637 | 6 | US-11-097-143-12783 | Sequence 12783, A |
| 640 | 32 | 58.2 | 642 | 6 | US-11-097-143-8331 | Sequence 8331, Ap |
| 641 | 32 | 58.2 | 673 | 6 | US-11-097-143-9486 | Sequence 9486, Ap |
| 642 | 32 | 58.2 | 685 | 5 | US-10-723-860-700 | Sequence 700, App |
| 643 | 32 | 58.2 | 685 | 5 | US-10-370-715B-96 | Sequence 96, Appl |
| 644 | 32 | 58.2 | 685 | 5 | US-10-756-149-4897 | Sequence 4897, Ap |
| 645 | 32 | 58.2 | 697 | 4 | US-10-437-963-152460 | Sequence 152460, |
| 646 | 32 | 58.2 | 727 | 4 | US-10-231-913-98 | Sequence 98, Appl |
| 647 | 32 | 58.2 | 743 | 5 | US-10-618-281-75 | Sequence 75, Appl |
| 648 | 32 | 58.2 | 766 | 3 | US-09-925-301-1276 | Sequence 1276, Ap |
| 649 | 32 | 58.2 | 766 | 4 | US-10-264-049-2675 | Sequence 2675, Ap |
| 650 | 32 | 58.2 | 777 | 6 | US-11-097-143-7761 | Sequence 7761, Ap |
| 651 | 32 | 58.2 | 780 | 4 | US-10-437-963-118033 | Sequence 118033, |
| 652 | 32 | 58.2 | 807 | 4 | US-10-437-963-159337 | Sequence 159337, |
| 653 | 32 | 58.2 | 821 | 4 | US-10-292-798-1370 | Sequence 1370, Ap |
| 654 | 32 | 58.2 | 860 | 5 | US-10-732-923-4703 | Sequence 4703, Ap |
| 655 | 32 | 58.2 | 865 | 4 | US-10-282-122A-69151 | Sequence 69151, A |
| 656 | 32 | 58.2 | 866 | 4 | US-10-087-887-66 | Sequence 66, Appl |
| 657 | 32 | 58.2 | 866 | 4 | US-10-087-887-73 | Sequence 73, Appl |
| 658 | 32 | 58.2 | 876 | 4 | US-10-282-122A-77326 | Sequence 77326, A |
| 659 | 32 | 58.2 | 904 | 5 | US-10-450-763-37053 | Sequence 37053, A |
| 660 | 32 | 58.2 | 904 | 5 | US-10-450-763-46040 | Sequence 46040, A |
| 661 | 32 | 58.2 | 904 | 5 | US-10-450-763-47327 | Sequence 47327, A |
| 662 | 32 | 58.2 | 918 | 5 | US-10-732-923-4702 | Sequence 4702, Ap |
| 663 | 32 | 58.2 | 919 | 4 | US-10-282-122A-62436 | Sequence 62436, A |
| 664 | 32 | 58.2 | 934 | 5 | US-10-989-891-150 | Sequence 150, App |
| 665 | 32 | 58.2 | 939 | 5 | US-10-688-745-40 | Sequence 40, Appl |
| 666 | 32 | 58.2 | 939 | 5 | US-10-732-923-4695 | Sequence 4695, Ap |
| 667 | 32 | 58.2 | 939 | 5 | US-10-732-923-4701 | Sequence 4701, Ap |
| 668 | 32 | 58.2 | 941 | 4 | US-10-282-122A-53125 | Sequence 53125, A |
| 669 | 32 | 58.2 | 944 | 5 | US-10-732-923-4700 | Sequence 4700, Ap |
| 670 | 32 | 58.2 | 971 | 4 | US-10-282-122A-62212 | Sequence 62212, A |
| 671 | 32 | 58.2 | 972 | 4 | US-10-282-122A-64582 | Sequence 64582, A |
| 672 | 32 | 58.2 | 988 | 4 | US-10-437-963-129169 | Sequence 129169, |
| 673 | 32 | 58.2 | 996 | 4 | US-10-369-493-18149 | Sequence 18149, A |
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| 675 | 32 | 58.2 | 1003 | 4 | US-10-325-468-20 | Sequence 20, Appl |
| 676 | 32 | 58.2 | 1003 | 4 | US-10-325-468-23 | Sequence 23, Appl |
| 677 | 32 | 58.2 | 1003 | 4 | US-10-325-468-35 | Sequence 35, Appl |
| 678 | 32 | 58.2 | 1004 | 4 | US-10-437-963-178369 | Sequence 178369, |
| 679 | 32 | 58.2 | 1182 | 4 | US-10-282-122A-51577 | Sequence 51577, A |
| 680 | 32 | 58.2 | 1229 | 4 | US-10-424-599-253527 | Sequence 253527, |
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| 682 | 32 | 58.2 | 1369 | 5 | US-10-732-923-13517 | Sequence 13517, A |
| 683 | 32 | 58.2 | 1565 | 4 | US-10-425-115-271851 | Sequence 271851, |
| 684 | 32 | 58.2 | 1595 | 4 | US-10-437-963-123085 | Sequence 123085, |

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| 686 | 32 | 58.2 | 1639 | 6 | US-11-097-143-6213 | Sequence 6213, Ap |
| 687 | 32 | 58.2 | 1788 | 6 | US-11-097-143-15777 | Sequence 15777, A |
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| 691 | 32 | 58.2 | 2440 | 5 | US-10-732-923-18452 | Sequence 18452, A |
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| 694 | 32 | 58.2 | 2441 | 5 | US-10-473-127-643 | Sequence 643, App |
| 695 | 32 | 58.2 | 2441 | 5 | US-10-732-923-18428 | Sequence 18428, A |
| 696 | 32 | 58.2 | 2441 | 5 | US-10-732-923-18429 | Sequence 18429, A |
| 697 | 32 | 58.2 | 2442 | 4 | US-10-109-886-10 | Sequence 10, Appl |
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| 699 | 32 | 58.2 | 2442 | 5 | US-10-473-127-633 | Sequence 633, App |
| 700 | 32 | 58.2 | 2442 | 5 | US-10-473-127-645 | Sequence 645, App |
| 701 | 32 | 58.2 | 2442 | 5 | US-10-473-127-647 | Sequence 647, App |
| 702 | 32 | 58.2 | 2442 | 5 | US-10-732-923-18450 | Sequence 18450, A |
| 703 | 32 | 58.2 | 2442 | 5 | US-10-732-923-18451 | Sequence 18451, A |
| 704 | 32 | 58.2 | 2442 | 5 | US-10-840-060-92 | Sequence 92, Appl |
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| 706 | 32 | 58.2 | 3275 | 5 | US-10-840-060-90 | Sequence 90, Appl |
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| 708 | 32 | 58.2 | 3276 | 5 | US-10-732-923-18447 | Sequence 18447, A |
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| 710 | 31.5 | 57.3 | 134 | 4 | US-10-363-829-492 | Sequence 492, App |
| 711 | 31.5 | 57.3 | 154 | 3 | US-09-764-864-1321 | Sequence 1321, Ap |
| 712 | 31.5 | 57.3 | 190 | 3 | US-09-864-761-34862 | Sequence 34862, A |
| 713 | 31.5 | 57.3 | 190 | 3 | US-09-864-761-36988 | Sequence 36988, A |
| 714 | 31.5 | 57.3 | 200 | 4 | US-10-029-386-33942 | Sequence 33942, A |
| 715 | 31.5 | 57.3 | 326 | 4 | US-10-363-829-392 | Sequence 392, App |
| 716 | 31.5 | 57.3 | 338 | 3 | US-09-840-787-4 | Sequence 4, Appli |
| 717 | 31.5 | 57.3 | 340 | 5 | US-10-450-763-35320 | Sequence 35320, A |
| 718 | 31.5 | 57.3 | 342 | 4 | US-10-094-749-2677 | Sequence 2677, Ap |
| 719 | 31.5 | 57.3 | 357 | 4 | US-10-104-047-2570 | Sequence 2570, Ap |
| 720 | 31.5 | 57.3 | 374 | 4 | US-10-029-386-33411 | Sequence 33411, A |
| 721 | 31.5 | 57.3 | 396 | 4 | US-10-029-386-33743 | Sequence 33743, A |
| 722 | 31.5 | 57.3 | 397 | 6 | US-11-097-143-15141 | Sequence 15141, A |
| 723 | 31.5 | 57.3 | 406 | 3 | US-09-764-864-976 | Sequence 976, App |
| 724 | 31.5 | 57.3 | 443 | 6 | US-11-097-143-22845 | Sequence 22845, A |
| 725 | 31.5 | 57.3 | 444 | 4 | US-10-108-260A-3223 | Sequence 3223, Ap |
| 726 | 31.5 | 57.3 | 458 | 4 | US-10-408-765A-2340 | Sequence 2340, Ap |
| 727 | 31.5 | 57.3 | 458 | 5 | US-10-719-993-448 | Sequence 448, App |
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| 730 | 31.5 | 57.3 | 464 | 4 | US-10-108-260A-3590 | Sequence 3590, Ap |
| 731 | 31.5 | 57.3 | 488 | 3 | US-09-840-787-17 | Sequence 17, Appl |
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| 734 | 31.5 | 57.3 | 532 | 4 | US-10-225-928-2 | Sequence 2, Appli |
| 735 | 31.5 | 57.3 | 532 | 4 | US-10-225-567A-195 | Sequence 195, App |
| 736 | 31.5 | 57.3 | 532 | 4 | US-10-366-288-34 | Sequence 34, Appl |
| 737 | 31.5 | 57.3 | 532 | 5 | US-10-925-095-521 | Sequence 521, App |
| 738 | 31.5 | 57.3 | 558 | 4 | US-10-363-616-374 | Sequence 374, App |
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| 741 | 31.5 | 57.3 | 610 | 4 | US-10-094-749-2604 | Sequence 2604, Ap |
| 742 | 31.5 | 57.3 | 610 | 4 | US-10-108-260A-3772 | Sequence 3772, Ap |
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| 746 | 31.5 | 57.3 | 686 | 5 | US-10-486-977-6 | Sequence 6, Appli |
| 747 | 31.5 | 57.3 | 714 | 4 | US-10-108-260A-2908 | Sequence 2908, Ap |
| 748 | 31.5 | 57.3 | 738 | 4 | US-10-408-765A-740 | Sequence 740, App |
| 749 | 31.5 | 57.3 | 745 | 4 | US-10-029-386-32029 | Sequence 32029, A |
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| 752 | 31.5 | 57.3 | 841 | 5 | US-10-450-763-46526 | Sequence 46526, A |
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| 755 | 31.5 | 57.3 | 944 | 3 | US-09-964-238-2 | Sequence 2, Appli |
| 756 | 31.5 | 57.3 | 1098 | 4 | US-10-087-192-231 | Sequence 231, App |
| 757 | 31.5 | 57.3 | 1104 | 4 | US-10-104-047-2506 | Sequence 2506, Ap |
| 758 | 31.5 | 57.3 | 1117 | 4 | US-10-232-561-12 | Sequence 12, Appl |
| 759 | 31.5 | 57.3 | 1117 | 5 | US-10-631-467-1591 | Sequence 1591, Ap |
| 760 | 31.5 | 57.3 | 1124 | 5 | US-10-631-467-876 | Sequence 876, App |
| 761 | 31.5 | 57.3 | 1125 | 3 | US-09-974-298-114 | Sequence 114, App |
| 762 | 31.5 | 57.3 | 1125 | 4 | US-10-087-192-234 | Sequence 234, App |
| 763 | 31.5 | 57.3 | 1154 | 4 | US-10-232-561-10 | Sequence 10, Appl |
| 764 | 31 | 56.4 | 9 | 4 | US-10-133-210-129 | Sequence 129, App |
| 765 | 31 | 56.4 | 15 | 4 | US-10-103-395-93 | Sequence 93, Appl |
| 766 | 31 | 56.4 | 16 | 4 | US-10-182-936A-182 | Sequence 182, App |
| 767 | 31 | 56.4 | 22 | 4 | US-10-059-271-59 | Sequence 59, Appl |
| 768 | 31 | 56.4 | 39 | 5 | US-10-450-763-42961 | Sequence 42961, A |
| 769 | 31 | 56.4 | 40 | 4 | US-10-332-765-30 | Sequence 30, Appl |
| 770 | 31 | 56.4 | 41 | 4 | US-10-724-972A-4558 | Sequence 4558, Ap |
| 771 | 31 | 56.4 | 44 | 4 | US-10-437-963-139036 | Sequence 139036, |
| 772 | 31 | 56.4 | 47 | 4 | US-10-425-115-343978 | Sequence 343978, |
| 773 | 31 | 56.4 | 54 | 4 | US-10-424-599-216323 | Sequence 216323, |
| 774 | 31 | 56.4 | 56 | 4 | US-10-425-115-301600 | Sequence 301600, |
| 775 | 31 | 56.4 | 61 | 4 | US-10-424-599-189515 | Sequence 189515, |
| 776 | 31 | 56.4 | 63 | 4 | US-10-416-314-29 | Sequence 29, Appl |
| 777 | 31 | 56.4 | 64 | 4 | US-10-424-599-221328 | Sequence 221328, |
| 778 | 31 | 56.4 | 64 | 4 | US-10-424-599-238534 | Sequence 238534, |
| 779 | 31 | 56.4 | 66 | 4 | US-10-425-115-233015 | Sequence 233015, |
| 780 | 31 | 56.4 | 67 | 4 | US-10-040-916-53 | Sequence 53, Appl |
| 781 | 31 | 56.4 | 67 | 4 | US-10-016-249-7 | Sequence 7, Appli |
| 782 | 31 | 56.4 | 69 | 4 | US-10-425-115-255154 | Sequence 255154, |
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| 784 | 31 | 56.4 | 79 | 4 | US-10-424-599-230879 | Sequence 230879, |
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| 786 | 31 | 56.4 | 80 | 4 | US-10-437-963-191601 | Sequence 191601, |
| 787 | 31 | 56.4 | 82 | 4 | US-10-425-115-335400 | Sequence 335400, |
| 788 | 31 | 56.4 | 87 | 4 | US-10-425-115-271003 | Sequence 271003, |
| 789 | 31 | 56.4 | 88 | 4 | US-10-425-115-360984 | Sequence 360984, |
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| 793 | 31 | 56.4 | 101 | 4 | US-10-425-115-329478 | Sequence 329478, |
| 794 | 31 | 56.4 | 102 | 4 | US-10-424-599-187574 | Sequence 187574, |
| 795 | 31 | 56.4 | 104 | 4 | US-10-437-963-150552 | Sequence 150552, |
| 796 | 31 | 56.4 | 104 | 4 | US-10-425-115-336362 | Sequence 336362, |
| 797 | 31 | 56.4 | 109 | 4 | US-10-437-963-128078 | Sequence 128078, |
| 798 | 31 | 56.4 | 109 | 5 | US-10-450-763-31332 | Sequence 31332, A |
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| 801 | 31 | 56.4 | 112 | 4 | US-10-424-599-157992 | Sequence 157992, |
| 802 | 31 | 56.4 | 115 | 4 | US-10-425-115-341421 | Sequence 341421, |
| 803 | 31 | 56.4 | 115 | 4 | US-10-425-115-349799 | Sequence 349799, |
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| 805 | 31 | 56.4 | 123 | 4 | US-10-424-599-150154 | Sequence 150154, |
| 806 | 31 | 56.4 | 123 | 4 | US-10-425-115-344268 | Sequence 344268, |
| 807 | 31 | 56.4 | 124 | 4 | US-10-425-115-284448 | Sequence 284448, |
| 808 | 31 | 56.4 | 125 | 4 | US-10-437-963-158301 | Sequence 158301, |
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| 812 | 31 | 56.4 | 135 | 4 | US-10-425-115-341424 | Sequence 341424, |
| 813 | 31 | 56.4 | 136 | 3 | US-09-815-242-12576 | Sequence 12576, A |
| 814 | 31 | 56.4 | 136 | 4 | US-10-278-946-4 | Sequence 4, Appli |
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| 816 | 31 | 56.4 | 136 | 5 | US-10-967-189-4 | Sequence 4, Appli |
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| 819 | 31 | 56.4 | 138 | 4 | US-10-425-115-341429 | Sequence 341429, |
| 820 | 31 | 56.4 | 138 | 4 | US-10-425-115-341430 | Sequence 341430, |
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| 825 | 31 | 56.4 | 148 | 6 | US-11-021-949-359 | Sequence 359, App |
| 826 | 31 | 56.4 | 150 | 5 | US-10-367-057-11 | Sequence 11, Appl |
| 827 | 31 | 56.4 | 151 | 6 | US-11-021-949-26 | Sequence 26, Appl |
| 828 | 31 | 56.4 | 153 | 4 | US-10-425-115-232805 | Sequence 232805, |
| 829 | 31 | 56.4 | 155 | 3 | US-09-776-724A-93 | Sequence 93, Appl |
| 830 | 31 | 56.4 | 155 | 4 | US-10-104-047-3331 | Sequence 3331, Ap |

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| 836 | 31 | 56.4 | 165 | 4 | US-10-424-599-196275 | Sequence 196275, |
| 837 | 31 | 56.4 | 167 | 4 | US-10-437-963-123014 | Sequence 123014, |
| 838 | 31 | 56.4 | 172 | 4 | US-10-424-599-245857 | Sequence 245857, |
| 839 | 31 | 56.4 | 173 | 4 | US-10-156-761-8251 | Sequence 8251, Ap |
| 840 | 31 | 56.4 | 173 | 4 | US-10-437-963-122706 | Sequence 122706, |
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| 842 | 31 | 56.4 | 176 | 5 | US-10-722-045-97 | Sequence 97, Appl |
| 843 | 31 | 56.4 | 177 | 4 | US-10-371-264-88 | Sequence 88, Appl |
| 844 | 31 | 56.4 | 177 | 4 | US-10-371-099-384 | Sequence 384, App |
| 845 | 31 | 56.4 | 177 | 4 | US-10-371-122-384 | Sequence 384, App |
| 846 | 31 | 56.4 | 177 | 4 | US-10-373-567-88 | Sequence 88, Appl |
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| 848 | 31 | 56.4 | 177 | 4 | US-10-628-088-384 | Sequence 384, App |
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| 850 | 31 | 56.4 | 177 | 4 | US-10-767-701-61695 | Sequence 61695, A |
| 851 | 31 | 56.4 | 177 | 5 | US-10-831-780-384 | Sequence 384, App |
| 852 | 31 | 56.4 | 177 | 5 | US-10-466-811-103 | Sequence 103, App |
| 853 | 31 | 56.4 | 177 | 5 | US-10-831-781-88 | Sequence 88, Appl |
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| 855 | 31 | 56.4 | 183 | 4 | US-10-425-115-349243 | Sequence 349243, |
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| 860 | 31 | 56.4 | 194 | 4 | US-10-424-599-260372 | Sequence 260372, |
| 861 | 31 | 56.4 | 194 | 4 | US-10-437-963-144393 | Sequence 144393, |
| 862 | 31 | 56.4 | 195 | 4 | US-10-425-114-39929 | Sequence 39929, A |
| 863 | 31 | 56.4 | 198 | 4 | US-10-767-701-62429 | Sequence 62429, A |
| 864 | 31 | 56.4 | 216 | 4 | US-10-425-114-62194 | Sequence 62194, A |
| 865 | 31 | 56.4 | 218 | 4 | US-10-767-701-36133 | Sequence 36133, A |
| 866 | 31 | 56.4 | 223 | 4 | US-10-424-599-258211 | Sequence 258211, |
| 867 | 31 | 56.4 | 228 | 3 | US-09-815-242-10077 | Sequence 10077, A |
| 868 | 31 | 56.4 | 228 | 4 | US-10-282-122A-56458 | Sequence 56458, A |
| 869 | 31 | 56.4 | 235 | 3 | US-09-738-626-3825 | Sequence 3825, Ap |
| 870 | 31 | 56.4 | 238 | 4 | US-10-424-599-206085 | Sequence 206085, |
| 871 | 31 | 56.4 | 239 | 4 | US-10-425-115-290579 | Sequence 290579, |
| 872 | 31 | 56.4 | 241 | 4 | US-10-369-493-5106 | Sequence 5106, Ap |
| 873 | 31 | 56.4 | 250 | 3 | US-09-867-550-760 | Sequence 760, App |
| 874 | 31 | 56.4 | 250 | 4 | US-10-424-599-246585 | Sequence 246585, |
| 875 | 31 | 56.4 | 251 | 4 | US-10-425-115-201411 | Sequence 201411, |
| 876 | 31 | 56.4 | 253 | 4 | US-10-059-271-79 | Sequence 79, Appl |
| 877 | 31 | 56.4 | 254 | 4 | US-10-104-019-16 | Sequence 16, Appl |
| 878 | 31 | 56.4 | 254 | 4 | US-10-104-019-17 | Sequence 17, Appl |
| 879 | 31 | 56.4 | 254 | 4 | US-10-104-019-18 | Sequence 18, Appl |
| 880 | 31 | 56.4 | 254 | 4 | US-10-104-019-19 | Sequence 19, Appl |
| 881 | 31 | 56.4 | 254 | 4 | US-10-104-019-20 | Sequence 20, Appl |
| 882 | 31 | 56.4 | 254 | 4 | US-10-104-019-21 | Sequence 21, Appl |
| 883 | 31 | 56.4 | 254 | 4 | US-10-104-019-22 | Sequence 22, Appl |
| 884 | 31 | 56.4 | 254 | 4 | US-10-104-019-16 | Sequence 16, Appl |
| 885 | 31 | 56.4 | 254 | 4 | US-10-104-019-17 | Sequence 17, Appl |
| 886 | 31 | 56.4 | 254 | 4 | US-10-104-019-18 | Sequence 18, Appl |
| 887 | 31 | 56.4 | 254 | 4 | US-10-104-019-19 | Sequence 19, Appl |
| 888 | 31 | 56.4 | 254 | 4 | US-10-104-019-20 | Sequence 20, Appl |
| 889 | 31 | 56.4 | 254 | 4 | US-10-104-019-21 | Sequence 21, Appl |
| 890 | 31 | 56.4 | 254 | 4 | US-10-104-019-22 | Sequence 22, Appl |
| 891 | 31 | 56.4 | 254 | 4 | US-10-428-826-16 | Sequence 16, Appl |
| 892 | 31 | 56.4 | 254 | 4 | US-10-428-826-17 | Sequence 17, Appl |
| 893 | 31 | 56.4 | 254 | 4 | US-10-428-826-18 | Sequence 18, Appl |
| 894 | 31 | 56.4 | 254 | 4 | US-10-428-826-19 | Sequence 19, Appl |
| 895 | 31 | 56.4 | 254 | 4 | US-10-428-826-20 | Sequence 20, Appl |
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| 897 | 31 | 56.4 | 254 | 4 | US-10-428-826-22 | Sequence 22, Appl |
| 898 | 31 | 56.4 | 254 | 5 | US-10-750-409-31 | Sequence 31, Appl |
| 899 | 31 | 56.4 | 254 | 5 | US-10-618-779-69 | Sequence 69, Appl |
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| 907 | 31 | 56.4 | 286 | 4 | US-10-103-313-400 | Sequence 400, App |
| 908 | 31 | 56.4 | 286 | 5 | US-10-821-273-88 | Sequence 88, Appl |
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| 921 | 31 | 56.4 | 302 | 4 | US-10-437-963-110103 | Sequence 110103, |
| 922 | 31 | 56.4 | 302 | 5 | US-10-846-989-16 | Sequence 16, Appl |
| 923 | 31 | 56.4 | 302 | 5 | US-10-845-834A-16 | Sequence 16, Appl |
| 924 | 31 | 56.4 | 305 | 4 | US-10-335-977-6980 | Sequence 6980, Ap |
| 925 | 31 | 56.4 | 311 | 4 | US-10-424-599-218684 | Sequence 218684, |
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| 927 | 31 | 56.4 | 313 | 4 | US-10-424-599-228837 | Sequence 228837, |
| 928 | 31 | 56.4 | 320 | 3 | US-09-886-055-317 | Sequence 317, App |
| 929 | 31 | 56.4 | 320 | 3 | US-09-804-291-317 | Sequence 317, App |
| 930 | 31 | 56.4 | 320 | 4 | US-10-017-161-852 | Sequence 852, App |
| 931 | 31 | 56.4 | 320 | 4 | US-10-387-629-172 | Sequence 172, App |
| 932 | 31 | 56.4 | 320 | 4 | US-10-387-629-176 | Sequence 176, App |
| 933 | 31 | 56.4 | 320 | 4 | US-10-292-798-730 | Sequence 730, App |
| 934 | 31 | 56.4 | 320 | 4 | US-10-343-650A-164 | Sequence 164, App |
| 935 | 31 | 56.4 | 320 | 4 | US-10-467-252-26 | Sequence 26, Appl |
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| 937 | 31 | 56.4 | 320 | 5 | US-10-819-316-317 | Sequence 317, App |
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| 940 | 31 | 56.4 | 342 | 3 | US-09-815-242-10958 | Sequence 10958, A |
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| 942 | 31 | 56.4 | 343 | 3 | US-09-922-501-15 | Sequence 15, Appl |
| 943 | 31 | 56.4 | 343 | 4 | US-10-343-369-15 | Sequence 15, Appl |
| 944 | 31 | 56.4 | 343 | 5 | US-10-787-267A-15 | Sequence 15, Appl |
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| 946 | 31 | 56.4 | 363 | 4 | US-10-374-903A-7 | Sequence 7, Appli |
| 947 | 31 | 56.4 | 368 | 4 | US-10-220-120-308 | Sequence 308, App |
| 948 | 31 | 56.4 | 374 | 4 | US-10-369-493-7026 | Sequence 7026, Ap |
| 949 | 31 | 56.4 | 383 | 4 | US-10-425-115-274551 | Sequence 274551, |
| 950 | 31 | 56.4 | 385 | 4 | US-10-425-115-340982 | Sequence 340982, |
| 951 | 31 | 56.4 | 390 | 4 | US-10-425-115-292676 | Sequence 292676, |
| 952 | 31 | 56.4 | 402 | 4 | US-10-221-625-36 | Sequence 36, Appl |
| 953 | 31 | 56.4 | 402 | 5 | US-10-972-024-266 | Sequence 266, App |
| 954 | 31 | 56.4 | 403 | 3 | US-09-470-526-2 | Sequence 2, Appli |
| 955 | 31 | 56.4 | 407 | 4 | US-10-425-114-57586 | Sequence 57586, A |
| 956 | 31 | 56.4 | 407 | 4 | US-10-425-115-325621 | Sequence 325621, |
| 957 | 31 | 56.4 | 416 | 4 | US-10-101-464A-937 | Sequence 937, App |
| 958 | 31 | 56.4 | 416 | 4 | US-10-425-114-71517 | Sequence 71517, A |
| 959 | 31 | 56.4 | 416 | 5 | US-10-864-252-937 | Sequence 937, App |
| 960 | 31 | 56.4 | 419 | 4 | US-10-282-122A-52115 | Sequence 52115, A |
| 961 | 31 | 56.4 | 437 | 6 | US-11-097-143-12651 | Sequence 12651, A |
| 962 | 31 | 56.4 | 438 | 4 | US-10-437-963-155489 | Sequence 155489, |
| 963 | 31 | 56.4 | 440 | 4 | US-10-425-115-339760 | Sequence 339760, |
| 964 | 31 | 56.4 | 444 | 4 | US-10-334-143-37 | Sequence 37, Appl |
| 965 | 31 | 56.4 | 449 | 4 | US-10-425-115-304540 | Sequence 304540, |
| 966 | 31 | 56.4 | 457 | 6 | US-11-097-143-3120 | Sequence 3120, Ap |
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| 968 | 31 | 56.4 | 476 | 4 | US-10-425-115-358968 | Sequence 358968, |
| 969 | 31 | 56.4 | 483 | 4 | US-10-389-566-1195 | Sequence 1195, Ap |
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| 974 | 31 | 56.4 | 495 | 4 | US-10-389-566-2105 | Sequence 2105, Ap |
| 975 | 31 | 56.4 | 495 | 4 | US-10-389-566-2121 | Sequence 2121, Ap |
| 976 | 31 | 56.4 | 495 | 4 | US-10-389-566-2185 | Sequence 2185, Ap |

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| 977 | 31 | 56.4 | 497 | 4 | US-10-389-566-1832 | Sequence 1832, Ap |
| 978 | 31 | 56.4 | 500 | 4 | US-10-425-115-261205 | Sequence 261205, |
| 979 | 31 | 56.4 | 521 | 4 | US-10-059-271-90 | Sequence 90, Appl |
| 980 | 31 | 56.4 | 521 | 6 | US-11-097-143-9918 | Sequence 9918, Ap |
| 981 | 31 | 56.4 | 524 | 4 | US-10-425-114-58604 | Sequence 58604, A |
| 982 | 31 | 56.4 | 525 | 3 | US-09-470-526-9 | Sequence 9, Appli |
| 983 | 31 | 56.4 | 527 | 4 | US-10-369-493-3588 | Sequence 3588, Ap |
| 984 | 31 | 56.4 | 528 | 4 | US-10-712-124-22 | Sequence 22, Appl |
| 985 | 31 | 56.4 | 529 | 4 | US-10-389-566-2048 | Sequence 2048, Ap |
| 986 | 31 | 56.4 | 529 | 4 | US-10-703-292-3 | Sequence 3, Appli |
| 987 | 31 | 56.4 | 530 | 4 | US-10-425-115-325616 | Sequence 325616, |
| 988 | 31 | 56.4 | 532 | 4 | US-10-425-115-358965 | Sequence 358965, |
| 989 | 31 | 56.4 | 533 | 4 | US-10-369-493-12632 | Sequence 12632, A |
| 990 | 31 | 56.4 | 533 | 4 | US-10-425-115-304670 | Sequence 304670, |
| 991 | 31 | 56.4 | 537 | 6 | US-11-097-143-40536 | Sequence 40536, A |
| 992 | 31 | 56.4 | 540 | 4 | US-10-424-599-212518 | Sequence 212518, |
| 993 | 31 | 56.4 | 549 | 4 | US-10-437-963-141472 | Sequence 141472, |
| 994 | 31 | 56.4 | 556 | 4 | US-10-425-114-64592 | Sequence 64592, A |
| 995 | 31 | 56.4 | 561 | 4 | US-10-437-963-170312 | Sequence 170312, |
| 996 | 31 | 56.4 | 564 | 4 | US-10-437-963-183773 | Sequence 183773, |
| 997 | 31 | 56.4 | 568 | 6 | US-11-097-143-10794 | Sequence 10794, A |
| 998 | 31 | 56.4 | 577 | 4 | US-10-437-963-172478 | Sequence 172478, |
| 999 | 31 | 56.4 | 578 | 6 | US-11-097-143-12402 | Sequence 12402, A |
| 1000 | 31 | 56.4 | 578 | 6 | US-11-097-143-42522 | Sequence 42522, A |

ALIGNMENTS

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RESULT 1
US-10-484-063-6
; Sequence 6, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-484-063-6

  Query Match             100.0%;  Score 55;  DB 5;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.7e+06;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db          1 PYAVCDKCL 9


RESULT 2
US-08-344-824-237
; Sequence 237, Application US/08344824
; Publication No. US20030152580A1
;  GENERAL INFORMATION:
;    APPLICANT:  SETTE, Alessandro
;    APPLICANT:  SIDNEY, John
;    TITLE OF INVENTION:  HLA BINDING PEPTIDES AND THEIR USES
;    NUMBER OF SEQUENCES:  399
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend Khourie and Crew
;      STREET:  One Market Plaza, Steuart Street Tower, 20th
;      STREET:  Floor
;      CITY:  San Francisco
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94105
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/344,824
;      FILING DATE:  23-NOV-1994
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/278,634
;      FILING DATE:  21-JUL-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Bastian, Kevin L.
;      REGISTRATION NUMBER:  34,774
;      REFERENCE/DOCKET NUMBER:  14137-80-1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 543-9600
;      TELEFAX:  (415) 543-5043
;  INFORMATION FOR SEQ ID NO:  237:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  10 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
US-08-344-824-237

  Query Match             100.0%;  Score 55;  DB 2;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.034;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
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Db          2 PYAVCDKCL 10


RESULT 3
US-10-476-570-11
; Sequence 11, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 61-80
US-10-476-570-11
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Db          6 PYAVCDKCL 14


RESULT 4
US-10-612-818-4
; Sequence 4, Application US/10612818
; Publication No. US20040110925A1
; GENERAL INFORMATION:
;  APPLICANT: Impact Diagnostics
;  APPLICANT:  Impact Diagnostics
;  TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomaviruse
;  TITLE OF INVENTION:  18 for Detecting and/or Diagnosing Cervical and Other Human Papi
;  TITLE OF INVENTION:  Associated Cancers
;  FILE REFERENCE: 3352-2-2
;  CURRENT APPLICATION NUMBER: US/10/612,818
;  CURRENT FILING DATE:  2003-07-01
;  PRIOR APPLICATION NUMBER: US 60/394,172
;  PRIOR FILING DATE: 2002-07-02
;  PRIOR APPLICATION NUMBER: US 09/828,645
;  PRIOR FILING DATE: 2001-04-05
;  NUMBER OF SEQ ID NOS: 8
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
;   LENGTH: 22
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Derived from the E6 early coding region of HPV 16
US-10-612-818-4

  Query Match             100.0%;  Score 55;  DB 4;  Length 22;
  Best Local Similarity   100.0%;  Pred. No. 0.069;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db          5 PYAVCDKCL 13


RESULT 5
US-10-995-902-4
; Sequence 4, Application US/10995902
; Publication No. US20050221295A1
; GENERAL INFORMATION:
;  APPLICANT: Impact Diagnostics
;  APPLICANT:  Impact Diagnostics
;  TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomaviruse
;  TITLE OF INVENTION:  18 for Detecting and/or Diagnosing Cervical and Other Human Papi
;  TITLE OF INVENTION:  Associated Cancers
;  FILE REFERENCE: 3352-2-2
;  CURRENT APPLICATION NUMBER: US/10/995,902
;  CURRENT FILING DATE:  2004-11-23
;  PRIOR APPLICATION NUMBER: US 60/394,172
;  PRIOR FILING DATE: 2002-07-02
;  PRIOR APPLICATION NUMBER: US 09/828,645
;  PRIOR FILING DATE: 2001-04-05
;  NUMBER OF SEQ ID NOS: 8
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
;   LENGTH: 22
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Derived from the E6 early coding region of HPV 16
US-10-995-902-4

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  Best Local Similarity   100.0%;  Pred. No. 0.069;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |||||||||
Db          5 PYAVCDKCL 13


RESULT 6
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
;  APPLICANT: Schuler, Gerold
;  APPLICANT:  N.V. Antwerps Innovatiecentrum
;  TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
;  TITLE OF INVENTION:  Polynucleotides by Electroporation
;  FILE REFERENCE: 021505wo/JH/ml
;  CURRENT APPLICATION NUMBER: US/10/177,390
;  CURRENT FILING DATE:  2002-06-20
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-177-390-6

  Query Match             100.0%;  Score 55;  DB 4;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 0.37;
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Qy          1 PYAVCDKCL 9
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Db         59 PYAVCDKCL 67


RESULT 7
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-484-063-20

  Query Match             100.0%;  Score 55;  DB 5;  Length 151;
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Qy          1 PYAVCDKCL 9
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Db         59 PYAVCDKCL 67


RESULT 8
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US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
;  APPLICANT:  TORTOLERO-LUNA, GUILLERMO
;  APPLICANT:  FOLLEN, MICHELE
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
;  TITLE OF INVENTION:  PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
;  FILE REFERENCE: UTSC:560US
;  CURRENT APPLICATION NUMBER: US/10/484,063
;  CURRENT FILING DATE:  2004-01-16
;  PRIOR APPLICATION NUMBER: PCT/US02/23198
;  PRIOR FILING DATE: 2002-07-19
;  PRIOR APPLICATION NUMBER: 60/306,809
;  PRIOR FILING DATE: 2001-07-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-484-063-27

  Query Match             100.0%;  Score 55;  DB 5;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 0.37;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
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Db         59 PYAVCDKCL 67


RESULT 9
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-10-858-384-2

  Query Match             100.0%;  Score 55;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.39;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |||||||||
Db         66 PYAVCDKCL 74


RESULT 10
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
;  APPLICANT: Cuthill, Scott;
;  APPLICANT:  Jackson, Amanda;
;  APPLICANT:  Lewin, David A.;
;  APPLICANT:  Ooi, Chean Eng
;  TITLE OF INVENTION: Complexes and Methods of Using Same
;  FILE REFERENCE: 21402-559
;  CURRENT APPLICATION NUMBER: US/10/367,057
;  CURRENT FILING DATE:  2003-02-14
;  PRIOR APPLICATION NUMBER: 60/256,911
;  PRIOR FILING DATE: 2002-02-14
;  NUMBER OF SEQ ID NOS: 198
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 16
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-367-057-16

  Query Match             100.0%;  Score 55;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.39;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |||||||||
Db         66 PYAVCDKCL 74


RESULT 11
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

  Query Match             100.0%;  Score 55;  DB 6;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.39;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |||||||||
Db         66 PYAVCDKCL 74


RESULT 12
US-10-472-724-2
; Sequence 2, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
;  APPLICANT: Cid-Arregui, Angel
;  APPLICANT:  Zur Hausen, Harald
;  TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
;  FILE REFERENCE: 4121-154
;  CURRENT APPLICATION NUMBER: US/10/472,724
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP02/03271
```

; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 171
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

Query Match 100.0%; Score 55; DB 4; Length 171;
Best Local Similarity 100.0%; Pred. No. 0.42;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
||||||||| 
Db 71 PYAVCDKCL 79

RESULT 13
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOUL, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/11/072,288
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US/09/462,993
; PRIOR FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Derivated from
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
; OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

Query Match 100.0%; Score 55; DB 6; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.57;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
||||||||| 
Db 94 PYAVCDKCL 102

RESULT 14
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 55; DB 3; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.61;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
||||||||| 
Db 66 PYAVCDKCL 74

RESULT 15
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-4

Query Match 100.0%; Score 55; DB 4; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.63;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
||||||||| 
Db 172 PYAVCDKCL 180

RESULT 16
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9

```
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-4

  Query Match             100.0%;  Score 55;  DB 5;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 0.63;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |||||||||
Db        172 PYAVCDKCL 180


RESULT 17
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-10

  Query Match             100.0%;  Score 55;  DB 4;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.67;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |||||||||
Db        191 PYAVCDKCL 199


RESULT 18
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
;   OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-10

  Query Match             100.0%;  Score 55;  DB 5;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.67;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |||||||||
Db        191 PYAVCDKCL 199


RESULT 19
US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-6

  Query Match             100.0%;  Score 55;  DB 4;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 0.82;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |||||||||
Db        172 PYAVCDKCL 180


RESULT 20
US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
```

```
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
;   OTHER INFORMATION: virus type 16)
US-10-899-771-6

  Query Match             100.0%;  Score 55;  DB 5;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 0.82;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |||||||||
Db        172 PYAVCDKCL 180


RESULT 21
US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-14

  Query Match             100.0%;  Score 55;  DB 4;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 0.86;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |||||||||
Db        191 PYAVCDKCL 199


RESULT 22
US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
;   OTHER INFORMATION: pneumoniae and E6E7 fusion from Human papilloma
;   OTHER INFORMATION: virus type 16)
US-10-899-771-14

  Query Match             100.0%;  Score 55;  DB 5;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 0.86;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |||||||||
Db        191 PYAVCDKCL 199


RESULT 23
US-08-344-824-346
; Sequence 346, Application US/08344824
; Publication No. US20030152580A1
;  GENERAL INFORMATION:
;    APPLICANT:  SETTE, Alessandro
;    APPLICANT:  SIDNEY, John
;    TITLE OF INVENTION:  HLA BINDING PEPTIDES AND THEIR USES
;    NUMBER OF SEQUENCES:  399
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend Khourie and Crew
;      STREET:  One Market Plaza, Steuart Street Tower, 20th
;      STREET:  Floor
;      CITY:  San Francisco
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94105
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/344,824
;      FILING DATE:  23-NOV-1994
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/278,634
;      FILING DATE:  21-JUL-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Bastian, Kevin L.
;      REGISTRATION NUMBER:  34,774
;      REFERENCE/DOCKET NUMBER:  14137-80-1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 543-9600
;      TELEFAX:  (415) 543-5043
;  INFORMATION FOR SEQ ID NO:  346:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
US-08-344-824-346

  Query Match             92.7%;  Score 51;  DB 2;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.7e+06;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy          1 PYAVCDKC 8
              ||||||||
Db          2 PYAVCDKC 9


RESULT 24
US-10-424-599-265840
; Sequence 265840, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 265840
;   LENGTH: 781
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(781)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_82073C.1.pep
US-10-424-599-265840

  Query Match             81.8%;  Score 45;  DB 4;  Length 781;
  Best Local Similarity   77.8%;  Pred. No. 62;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              || ||| ||
Db        383 PYRVCDNCL 391


RESULT 25
US-11-021-949-24
; Sequence 24, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 24
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-24

  Query Match             80.0%;  Score 44;  DB 6;  Length 151;
  Best Local Similarity   77.8%;  Pred. No. 21;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              ||||| :||
Db         59 PYAVCKQCL 67


RESULT 26
US-11-021-949-25
; Sequence 25, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 25
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-25

  Query Match             80.0%;  Score 44;  DB 6;  Length 151;
  Best Local Similarity   77.8%;  Pred. No. 21;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              ||| | |||
Db         59 PYAACKKCL 67


RESULT 27
US-11-021-949-361
; Sequence 361, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 361
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-361

  Query Match             78.2%;  Score 43;  DB 6;  Length 158;
  Best Local Similarity   66.7%;  Pred. No. 32;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              ||| | ||:
Db         61 PYAACQKCI 69


RESULT 28
US-10-424-599-205655
```

; Sequence 205655, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 205655
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_27734C.1.pep
US-10-424-599-205655

Query Match 78.2%; Score 43; DB 4; Length 292;
Best Local Similarity 87.5%; Pred. No. 54;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 YAVCDKCL 9
||||| ||
Db 91 YAVCDSCL 98

RESULT 29
US-10-437-963-163687
; Sequence 163687, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 163687
; LENGTH: 467
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_6265C.1.pep
US-10-437-963-163687

Query Match 78.2%; Score 43; DB 4; Length 467;
Best Local Similarity 75.0%; Pred. No. 82;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 PYAVCDKC 8
|: |||||
Db 347 PFVVCDKC 354

RESULT 30
US-11-021-949-14
; Sequence 14, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-14

Query Match 76.4%; Score 42; DB 6; Length 149;
Best Local Similarity 77.8%; Pred. No. 43;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
|| || |||
Db 59 PYGVCMKCL 67

RESULT 31
US-11-021-949-20
; Sequence 20, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 20
; LENGTH: 153
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-20

Query Match 76.4%; Score 42; DB 6; Length 153;
Best Local Similarity 77.8%; Pred. No. 44;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
|||||: ||
Db 62 PYAVCNFCL 70

RESULT 32
US-11-097-143-6279
; Sequence 6279, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; TITLE OF INVENTION: DROSOPHILA GENES.
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143

```
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: 60/157,832
;  PRIOR FILING DATE: 1999-10-05
;  PRIOR APPLICATION NUMBER: 60/160,191
;  PRIOR FILING DATE: 1999-10-19
;  PRIOR APPLICATION NUMBER: 60/161,932
;  PRIOR FILING DATE: 1999-10-28
;  PRIOR APPLICATION NUMBER: 60/164,769
;  PRIOR FILING DATE: 1999-11-12
;  PRIOR APPLICATION NUMBER: 60/173,383
;  PRIOR FILING DATE: 1999-12-28
;  PRIOR APPLICATION NUMBER: 60/175,693
;  PRIOR FILING DATE: 2000-01-12
;  PRIOR APPLICATION NUMBER: 60/184,831
;  PRIOR FILING DATE: 2000-02-24
;  PRIOR APPLICATION NUMBER: 60/191,637
;  PRIOR FILING DATE: 2000-03-23
;  NUMBER OF SEQ ID NOS: 43008
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6279
;   LENGTH: 1893
;   TYPE: PRT
;   ORGANISM: DROSOPHILA
US-11-097-143-6279

  Query Match             76.4%;  Score 42;  DB 6;  Length 1893;
  Best Local Similarity   100.0%;  Pred. No. 4.1e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDK 7
              |||||||
Db        747 PYAVCDK 753


RESULT 33
US-10-767-701-38586
; Sequence 38586, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
;  APPLICANT: Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof For Plant Improvement
;  FILE REFERENCE: 38-21(53535)B
;  CURRENT APPLICATION NUMBER: US/10/767,701
;  CURRENT FILING DATE:  2004-01-29
;  NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 38586
;   LENGTH: 140
;   TYPE: PRT
;   ORGANISM: Sorghum bicolor
;   FEATURE:
;   OTHER INFORMATION: Clone ID: SORBI-28MAY03-C64005_1.pep
US-10-767-701-38586

  Query Match             74.5%;  Score 41;  DB 4;  Length 140;
  Best Local Similarity   62.5%;  Pred. No. 59;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKC 8
              || :||:|
Db         48 PYKICDEC 55


RESULT 34
US-10-425-115-306006
; Sequence 306006, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 306006
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_42140C.1.pep
US-10-425-115-306006

  Query Match             74.5%;  Score 41;  DB 4;  Length 158;
  Best Local Similarity   75.0%;  Pred. No. 66;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKC 8
              || ||| |
Db         81 PYRVCDSC 88


RESULT 35
US-10-767-701-61305
; Sequence 61305, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
;  APPLICANT: Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof For Plant Improvement
;  FILE REFERENCE: 38-21(53535)B
;  CURRENT APPLICATION NUMBER: US/10/767,701
;  CURRENT FILING DATE:  2004-01-29
;  NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 61305
;   LENGTH: 209
;   TYPE: PRT
;   ORGANISM: Sorghum bicolor
;   FEATURE:
;   OTHER INFORMATION: Clone ID: 9303895.pep
US-10-767-701-61305

  Query Match             74.5%;  Score 41;  DB 4;  Length 209;
  Best Local Similarity   75.0%;  Pred. No. 84;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKC 8
              || ||| |
Db         29 PYRVCDSC 36


RESULT 36
US-10-425-115-281736
; Sequence 281736, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 281736
;   LENGTH: 315
;   TYPE: PRT
```

; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(315)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_20044C.1.pep
US-10-425-115-281736

Query Match 74.5%; Score 41; DB 4; Length 315;
Best Local Similarity 75.0%; Pred. No. 1.2e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 PYAVCDKC 8
|| ||| |
Db 197 PYRVCDSC 204

RESULT 37
US-10-424-599-252512
; Sequence 252512, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 252512
; LENGTH: 462
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(462)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_70045C.1.pep
US-10-424-599-252512

Query Match 74.5%; Score 41; DB 4; Length 462;
Best Local Similarity 75.0%; Pred. No. 1.7e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 PYAVCDKC 8
|| ||| |
Db 229 PYRVCDSC 236

RESULT 38
US-10-425-115-282885
; Sequence 282885, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 282885
; LENGTH: 517
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_21089C.1.pep
US-10-425-115-282885

Query Match 74.5%; Score 41; DB 4; Length 517;
Best Local Similarity 75.0%; Pred. No. 1.9e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 PYAVCDKC 8
|| ||| |
Db 78 PYRVCDSC 85

RESULT 39
US-10-437-963-113217
; Sequence 113217, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 113217
; LENGTH: 917
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_17025C.1.pep
US-10-437-963-113217

Query Match 74.5%; Score 41; DB 4; Length 917;
Best Local Similarity 75.0%; Pred. No. 3.1e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 PYAVCDKC 8
|| ||| |
Db 476 PYRVCDSC 483

RESULT 40
US-10-282-122A-52332
; Sequence 52332, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848

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;  PRIOR FILING DATE: 2000-05-23
;  PRIOR APPLICATION NUMBER: 60/207,727
;  PRIOR FILING DATE: 2000-05-26
;  PRIOR APPLICATION NUMBER: 60/230,335
;  PRIOR FILING DATE: 2000-09-06
;  PRIOR APPLICATION NUMBER: 60/230,347
;  PRIOR FILING DATE: 2000-09-09
;  PRIOR APPLICATION NUMBER: 60/242,578
;  PRIOR FILING DATE: 2000-10-23
;  PRIOR APPLICATION NUMBER: 60/253,625
;  PRIOR FILING DATE: 2000-11-27
;  PRIOR APPLICATION NUMBER: 60/257,931
;  PRIOR FILING DATE: 2000-12-22
;  PRIOR APPLICATION NUMBER: 60/267,636
;  PRIOR FILING DATE: 2001-02-09
;  PRIOR APPLICATION NUMBER: 60/269,308
;  PRIOR FILING DATE: 2001-02-16
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 78614
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 52332
;   LENGTH: 940
;   TYPE: PRT
;   ORGANISM: Clostridium botulinum
US-10-282-122A-52332

  Query Match             74.5%;  Score 41;  DB 4;  Length 940;
  Best Local Similarity   75.0%;  Pred. No. 3.2e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKC 8
              ||  ||||
Db        272 PYGKCDKC 279


RESULT 41
US-10-437-963-167162
; Sequence 167162, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 167162
;   LENGTH: 1082
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_657C.1.pep
US-10-437-963-167162

  Query Match             74.5%;  Score 41;  DB 4;  Length 1082;
  Best Local Similarity   75.0%;  Pred. No. 3.6e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKC 8
              || ||| |
Db        683 PYRVCDSC 690


RESULT 42
US-10-437-963-104962
; Sequence 104962, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 104962
;   LENGTH: 1086
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_102248C.1.pep
US-10-437-963-104962

  Query Match             74.5%;  Score 41;  DB 4;  Length 1086;
  Best Local Similarity   75.0%;  Pred. No. 3.6e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKC 8
              || ||| |
Db        704 PYRVCDSC 711


RESULT 43
US-10-437-963-126051
; Sequence 126051, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 126051
;   LENGTH: 1158
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(1158)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_28635C.1.pep
US-10-437-963-126051

  Query Match             74.5%;  Score 41;  DB 4;  Length 1158;
  Best Local Similarity   75.0%;  Pred. No. 3.8e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKC 8
              || ||| |
Db        778 PYRVCDSC 785
```

RESULT 44
US-10-437-963-156044
; Sequence 156044, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 156044
; LENGTH: 1169
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_5574C.1.pep
US-10-437-963-156044

Query Match 74.5%; Score 41; DB 4; Length 1169;
Best Local Similarity 75.0%; Pred. No. 3.8e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 PYAVCDKC 8
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Db 500 PYRVCDSC 507

RESULT 45
US-11-021-949-360
; Sequence 360, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 360
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-360

Query Match 72.7%; Score 40; DB 6; Length 149;
Best Local Similarity 66.7%; Pred. No. 90;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
|| || :||
Db 59 PYGVCKQCL 67

RESULT 46
US-11-021-949-22
; Sequence 22, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22
; LENGTH: 155
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-22

Query Match 72.7%; Score 40; DB 6; Length 155;
Best Local Similarity 77.8%; Pred. No. 94;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
||||| ||
Db 62 PYAVCRVCL 70

RESULT 47
US-11-021-949-23
; Sequence 23, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 23
; LENGTH: 155
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-23

Query Match 72.7%; Score 40; DB 6; Length 155;
Best Local Similarity 77.8%; Pred. No. 94;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
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Db 62 PYAVCRVCL 70

RESULT 48
US-10-425-115-304190
; Sequence 304190, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.

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;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 304190
;   LENGTH: 427
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(427)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_40492C.1.pep
US-10-425-115-304190

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  Best Local Similarity   75.0%;  Pred. No. 2.3e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKC 8
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Db         46 PYRVCDTC 53


RESULT 49
US-10-491-472-33
; Sequence 33, Application US/10491472
; Publication No. US20050186569A1
; GENERAL INFORMATION:
;  APPLICANT: INCYTE CORPORATION; BECHA, Shanya D.;
;  APPLICANT:  BOROWSKY, Mark L.; BURFORD, Neil;
;  APPLICANT:  CHAWLA, Narinder K.; ELLIOTT, Vicki S.;
;  APPLICANT:  EMERLING, Brooke M.; FORSYTHE, Ian J.;
;  APPLICANT:  GIETZEN, Kimberly J.; GORVAD, Ann E.;
;  APPLICANT:  GRIFFIN, Jennifer A.; HAFALIA, April J.A.;
;  APPLICANT:  ISON, Craig H.; LAL, Preeti G.;
;  APPLICANT:  LEE, Ernestine A.; LEE, Sally;
;  APPLICANT:  LEE, Soo Yeun; MARQUIS, Joseph P.;
;  APPLICANT:  RAMKUMAR, Jayalaxmi; SPRAGUE, William W.;
;  APPLICANT:  SWARNAKAR, Anita; TANG, Y. Tom;
;  APPLICANT:  WARREN, Bridget A.; YANG, Junming;
;  APPLICANT:  YUE, Henry; ZEBARJADIAN, Yeganeh
;  TITLE OF INVENTION: NUCLEIC ACID-ASSOCIATED PROTEINS
;  FILE REFERENCE: PF-1249 USN
;  CURRENT APPLICATION NUMBER: US/10/491,472
;  CURRENT FILING DATE:  2004-03-31
;  PRIOR APPLICATION NUMBER: PCT/US02/34846
;  PRIOR FILING DATE: 2002-10-29
;  PRIOR APPLICATION NUMBER: US 60/348,442
;  PRIOR FILING DATE: 2001-10-29
;  PRIOR APPLICATION NUMBER: US 60/335,544
;  PRIOR FILING DATE: 2001-11-01
;  PRIOR APPLICATION NUMBER: US 60/337,535
;  PRIOR FILING DATE: 2001-11-05
;  PRIOR APPLICATION NUMBER: US 60/344,650
;  PRIOR FILING DATE: 2001-11-09
;  PRIOR APPLICATION NUMBER: US 60/334,762
;  PRIOR FILING DATE: 2001-11-15
;  NUMBER OF SEQ ID NOS: 116
;  SOFTWARE: PERL Program
; SEQ ID NO 33
;   LENGTH: 579
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No: 8096177CD1
US-10-491-472-33

  Query Match             72.7%;  Score 40;  DB 5;  Length 579;
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  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKC 8
              || :|| |
Db        136 PYKICDSC 143


RESULT 50
US-11-021-949-19
; Sequence 19, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 19
;   LENGTH: 148
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-19

  Query Match             70.9%;  Score 39;  DB 6;  Length 148;
  Best Local Similarity   66.7%;  Pred. No. 1.3e+02;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              || ||  ||
Db         60 PYGVCQPCL 68


Search completed: May  5, 2006, 08:39:24
Job time : 59 secs
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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:29:56 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-68
Perfect score: 55
Sequence: 1 PYAVCDKCL 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_New:*
1: /SIDS5/ptodata/1/pubpaa/US08_NEW_PUB.pep1:*
2: /SIDS5/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
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5: /SIDS5/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
6: /SIDS5/ptodata/1/pubpaa/US09_NEW_PUB.pep:*
7: /SIDS5/ptodata/1/pubpaa/US09_NEW_PUB.pep1:*
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9: /SIDS5/ptodata/1/pubpaa/US10_NEW_PUB.pep1:*
10: /SIDS5/ptodata/1/pubpaa/US11_NEW_PUB.pep:*
11: /SIDS5/ptodata/1/pubpaa/US11_NEW_PUB.pep1:*
12: /SIDS5/ptodata/1/pubpaa/US60_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
|---|---|---|---|---|---|---|
| 1 | 55 | 100.0 | 11 | 9 | US-10-530-061-781 | Sequence 781, App |
| 2 | 55 | 100.0 | 151 | 9 | US-10-530-253-13 | Sequence 13, Appl |
| 3 | 55 | 100.0 | 158 | 11 | US-11-206-138-3 | Sequence 3, Appli |
| 4 | 55 | 100.0 | 248 | 9 | US-10-530-253-1 | Sequence 1, Appli |
| 5 | 55 | 100.0 | 248 | 9 | US-10-530-253-7 | Sequence 7, Appli |
| 6 | 55 | 100.0 | 256 | 11 | US-11-192-923A-2 | Sequence 2, Appli |
| 7 | 51 | 92.7 | 9 | 9 | US-10-530-061-801 | Sequence 801, App |
| 8 | 48 | 87.3 | 9 | 9 | US-10-530-061-604 | Sequence 604, App |
| 9 | 44 | 80.0 | 9 | 9 | US-10-530-061-603 | Sequence 603, App |
| 10 | 44 | 80.0 | 151 | 9 | US-10-530-253-21 | Sequence 21, Appl |
| 11 | 43 | 78.2 | 248 | 9 | US-10-530-253-3 | Sequence 3, Appli |
| 12 | 43 | 78.2 | 248 | 9 | US-10-530-253-5 | Sequence 5, Appli |
| 13 | 43 | 78.2 | 248 | 9 | US-10-530-253-9 | Sequence 9, Appli |
| 14 | 43 | 78.2 | 248 | 9 | US-10-530-253-11 | Sequence 11, Appl |
| 15 | 42 | 76.4 | 15 | 9 | US-10-530-061-1656 | Sequence 1656, Ap |
| 16 | 42 | 76.4 | 149 | 9 | US-10-530-253-18 | Sequence 18, Appl |
| 17 | 41 | 74.5 | 10 | 9 | US-10-530-061-502 | Sequence 502, App |
| 18 | 41 | 74.5 | 358 | 11 | US-11-087-099-9519 | Sequence 9519, Ap |
| 19 | 40 | 72.7 | 10 | 9 | US-10-530-061-70 | Sequence 70, Appl |
| 20 | 40 | 72.7 | 10 | 9 | US-10-530-061-795 | Sequence 795, App |
| 21 | 40 | 72.7 | 11 | 9 | US-10-530-061-788 | Sequence 788, App |
| 22 | 40 | 72.7 | 81 | 11 | US-11-079-463-6834 | Sequence 6834, Ap |
| 23 | 40 | 72.7 | 155 | 9 | US-10-530-253-23 | Sequence 23, Appl |
| 24 | 39 | 70.9 | 149 | 9 | US-10-530-253-16 | Sequence 16, Appl |
| 25 | 39 | 70.9 | 160 | 9 | US-10-530-253-25 | Sequence 25, Appl |
| 26 | 38 | 69.1 | 591 | 9 | US-10-506-454-901 | Sequence 901, App |
| 27 | 37 | 67.3 | 10 | 9 | US-10-530-061-501 | Sequence 501, App |
| 28 | 37 | 67.3 | 15 | 9 | US-10-530-061-1699 | Sequence 1699, Ap |
| 29 | 37 | 67.3 | 149 | 9 | US-10-530-253-24 | Sequence 24, Appl |
| 30 | 37 | 67.3 | 158 | 9 | US-10-530-253-15 | Sequence 15, Appl |
| 31 | 36 | 65.5 | 9 | 9 | US-10-530-061-103 | Sequence 103, App |
| 32 | 36 | 65.5 | 9 | 9 | US-10-530-061-838 | Sequence 838, App |
| 33 | 36 | 65.5 | 11 | 9 | US-10-530-061-52 | Sequence 52, Appl |
| 34 | 36 | 65.5 | 11 | 9 | US-10-530-061-787 | Sequence 787, App |
| 35 | 36 | 65.5 | 15 | 9 | US-10-530-061-1688 | Sequence 1688, Ap |
| 36 | 36 | 65.5 | 148 | 9 | US-10-530-253-22 | Sequence 22, Appl |
| 37 | 36 | 65.5 | 286 | 11 | US-11-264-096-2052 | Sequence 2052, Ap |
| 38 | 36 | 65.5 | 298 | 11 | US-11-264-096-2051 | Sequence 2051, Ap |
| 39 | 36 | 65.5 | 354 | 9 | US-10-506-454-517 | Sequence 517, App |
| 40 | 36 | 65.5 | 2107 | 9 | US-10-995-561-827 | Sequence 827, App |
| 41 | 36 | 65.5 | 2480 | 9 | US-10-995-561-825 | Sequence 825, App |
| 42 | 36 | 65.5 | 3116 | 9 | US-10-995-561-826 | Sequence 826, App |
| 43 | 35 | 63.6 | 11 | 9 | US-10-530-061-785 | Sequence 785, App |
| 44 | 35 | 63.6 | 158 | 9 | US-10-530-253-20 | Sequence 20, Appl |
| 45 | 35 | 63.6 | 328 | 9 | US-10-993-143-10 | Sequence 10, Appl |
| 46 | 35 | 63.6 | 338 | 11 | US-11-087-099-9160 | Sequence 9160, Ap |
| 47 | 35 | 63.6 | 426 | 11 | US-11-087-099-576 | Sequence 576, App |
| 48 | 35 | 63.6 | 441 | 11 | US-11-087-099-7799 | Sequence 7799, Ap |
| 49 | 35 | 63.6 | 559 | 11 | US-11-096-568A-27572 | Sequence 27572, A |
| 50 | 34 | 61.8 | 158 | 9 | US-10-530-253-26 | Sequence 26, Appl |
| 51 | 34 | 61.8 | 310 | 9 | US-10-506-454-396 | Sequence 396, App |
| 52 | 34 | 61.8 | 442 | 11 | US-11-087-099-1230 | Sequence 1230, Ap |
| 53 | 34 | 61.8 | 1139 | 11 | US-11-098-686-10206 | Sequence 10206, A |
| 54 | 34 | 61.8 | 1217 | 11 | US-11-074-176-252 | Sequence 252, App |
| 55 | 34 | 61.8 | 1356 | 9 | US-10-922-232B-63 | Sequence 63, Appl |
| 56 | 34 | 61.8 | 1525 | 11 | US-11-091-936-1 | Sequence 1, Appli |
| 57 | 33.5 | 60.9 | 303 | 9 | US-10-506-454-1102 | Sequence 1102, Ap |
| 58 | 33.5 | 60.9 | 334 | 11 | US-11-072-512-2440 | Sequence 2440, Ap |
| 59 | 33.5 | 60.9 | 498 | 11 | US-11-072-512-2548 | Sequence 2548, Ap |
| 60 | 33 | 60.0 | 9 | 9 | US-10-530-061-822 | Sequence 822, App |
| 61 | 33 | 60.0 | 128 | 11 | US-11-264-096-564 | Sequence 564, App |
| 62 | 33 | 60.0 | 132 | 11 | US-11-096-568A-15475 | Sequence 15475, A |
| 63 | 33 | 60.0 | 139 | 11 | US-11-096-568A-15474 | Sequence 15474, A |
| 64 | 33 | 60.0 | 166 | 11 | US-11-079-463-7500 | Sequence 7500, Ap |
| 65 | 33 | 60.0 | 182 | 11 | US-11-096-568A-15473 | Sequence 15473, A |
| 66 | 33 | 60.0 | 270 | 11 | US-11-072-512-3274 | Sequence 3274, Ap |
| 67 | 33 | 60.0 | 336 | 11 | US-11-087-099-1312 | Sequence 1312, Ap |
| 68 | 33 | 60.0 | 338 | 11 | US-11-087-099-488 | Sequence 488, App |
| 69 | 33 | 60.0 | 342 | 11 | US-11-087-099-3637 | Sequence 3637, Ap |
| 70 | 33 | 60.0 | 389 | 11 | US-11-108-528-68 | Sequence 68, Appl |
| 71 | 33 | 60.0 | 389 | 11 | US-11-108-528-70 | Sequence 70, Appl |
| 72 | 33 | 60.0 | 392 | 9 | US-10-506-454-229 | Sequence 229, App |
| 73 | 33 | 60.0 | 428 | 11 | US-11-087-099-4453 | Sequence 4453, Ap |
| 74 | 33 | 60.0 | 436 | 11 | US-11-087-099-764 | Sequence 764, App |
| 75 | 33 | 60.0 | 494 | 9 | US-10-763-712A-71 | Sequence 71, Appl |
| 76 | 33 | 60.0 | 494 | 9 | US-10-763-712A-111 | Sequence 111, App |
| 77 | 33 | 60.0 | 740 | 9 | US-10-878-556A-129 | Sequence 129, App |
| 78 | 33 | 60.0 | 1763 | 8 | US-10-504-120-21 | Sequence 21, Appl |
| 79 | 33 | 60.0 | 1807 | 8 | US-10-504-120-22 | Sequence 22, Appl |
| 80 | 32.5 | 59.1 | 500 | 9 | US-10-517-151-4 | Sequence 4, Appli |
| 81 | 32 | 58.2 | 9 | 9 | US-10-530-061-830 | Sequence 830, App |
| 82 | 32 | 58.2 | 11 | 9 | US-10-530-061-783 | Sequence 783, App |
| 83 | 32 | 58.2 | 15 | 9 | US-10-530-061-1678 | Sequence 1678, Ap |
| 84 | 32 | 58.2 | 28 | 11 | US-11-196-670-60 | Sequence 60, Appl |
| 85 | 32 | 58.2 | 64 | 9 | US-10-506-454-256 | Sequence 256, App |
| 86 | 32 | 58.2 | 76 | 11 | US-11-174-996A-67 | Sequence 67, Appl |
| 87 | 32 | 58.2 | 149 | 9 | US-10-530-253-17 | Sequence 17, Appl |
| 88 | 32 | 58.2 | 186 | 9 | US-10-467-657-470 | Sequence 470, App |
| 89 | 32 | 58.2 | 201 | 11 | US-11-087-099-592 | Sequence 592, App |
| 90 | 32 | 58.2 | 249 | 11 | US-11-096-568A-2889 | Sequence 2889, Ap |
| 91 | 32 | 58.2 | 249 | 11 | US-11-096-568A-2891 | Sequence 2891, Ap |
| 92 | 32 | 58.2 | 271 | 11 | US-11-096-568A-2888 | Sequence 2888, Ap |
| 93 | 32 | 58.2 | 298 | 11 | US-11-087-099-6089 | Sequence 6089, Ap |
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| 95 | 32 | 58.2 | 368 | 11 | US-11-087-099-7829 | Sequence 7829, Ap |
| 96 | 32 | 58.2 | 380 | 11 | US-11-087-099-2511 | Sequence 2511, Ap |
| 97 | 32 | 58.2 | 380 | 11 | US-11-087-099-4186 | Sequence 4186, Ap |
| 98 | 32 | 58.2 | 397 | 9 | US-10-878-556A-155 | Sequence 155, App |
| 99 | 32 | 58.2 | 412 | 11 | US-11-087-099-899 | Sequence 899, App |
| 100 | 32 | 58.2 | 416 | 11 | US-11-087-099-8746 | Sequence 8746, Ap |
| 101 | 32 | 58.2 | 417 | 11 | US-11-087-099-11336 | Sequence 11336, A |
| 102 | 32 | 58.2 | 419 | 11 | US-11-087-099-3126 | Sequence 3126, Ap |
| 103 | 32 | 58.2 | 419 | 11 | US-11-087-099-6126 | Sequence 6126, Ap |
| 104 | 32 | 58.2 | 419 | 11 | US-11-087-099-8272 | Sequence 8272, Ap |
| 105 | 32 | 58.2 | 419 | 11 | US-11-087-099-8659 | Sequence 8659, Ap |
| 106 | 32 | 58.2 | 420 | 11 | US-11-087-099-1386 | Sequence 1386, Ap |
| 107 | 32 | 58.2 | 420 | 11 | US-11-087-099-3379 | Sequence 3379, Ap |
| 108 | 32 | 58.2 | 420 | 11 | US-11-087-099-3603 | Sequence 3603, Ap |
| 109 | 32 | 58.2 | 420 | 11 | US-11-087-099-3862 | Sequence 3862, Ap |
| 110 | 32 | 58.2 | 420 | 11 | US-11-087-099-6353 | Sequence 6353, Ap |
| 111 | 32 | 58.2 | 420 | 11 | US-11-087-099-7748 | Sequence 7748, Ap |
| 112 | 32 | 58.2 | 420 | 11 | US-11-087-099-8221 | Sequence 8221, Ap |
| 113 | 32 | 58.2 | 420 | 11 | US-11-087-099-10465 | Sequence 10465, A |
| 114 | 32 | 58.2 | 422 | 11 | US-11-169-041-224 | Sequence 224, App |
| 115 | 32 | 58.2 | 422 | 11 | US-11-087-099-5338 | Sequence 5338, Ap |
| 116 | 32 | 58.2 | 422 | 11 | US-11-087-099-5897 | Sequence 5897, Ap |
| 117 | 32 | 58.2 | 427 | 11 | US-11-087-099-11888 | Sequence 11888, A |
| 118 | 32 | 58.2 | 429 | 11 | US-11-087-099-8332 | Sequence 8332, Ap |
| 119 | 32 | 58.2 | 429 | 11 | US-11-087-099-10550 | Sequence 10550, A |
| 120 | 32 | 58.2 | 430 | 11 | US-11-087-099-5505 | Sequence 5505, Ap |
| 121 | 32 | 58.2 | 431 | 11 | US-11-087-099-1408 | Sequence 1408, Ap |
| 122 | 32 | 58.2 | 431 | 11 | US-11-087-099-1953 | Sequence 1953, Ap |
| 123 | 32 | 58.2 | 431 | 11 | US-11-087-099-10899 | Sequence 10899, A |
| 124 | 32 | 58.2 | 433 | 11 | US-11-087-099-2989 | Sequence 2989, Ap |
| 125 | 32 | 58.2 | 434 | 11 | US-11-087-099-9864 | Sequence 9864, Ap |
| 126 | 32 | 58.2 | 434 | 11 | US-11-087-099-12244 | Sequence 12244, A |
| 127 | 32 | 58.2 | 438 | 11 | US-11-087-099-10344 | Sequence 10344, A |
| 128 | 32 | 58.2 | 438 | 11 | US-11-087-099-11854 | Sequence 11854, A |
| 129 | 32 | 58.2 | 439 | 11 | US-11-087-099-5745 | Sequence 5745, Ap |
| 130 | 32 | 58.2 | 439 | 11 | US-11-087-099-8827 | Sequence 8827, Ap |
| 131 | 32 | 58.2 | 444 | 11 | US-11-087-099-4969 | Sequence 4969, Ap |
| 132 | 32 | 58.2 | 444 | 11 | US-11-087-099-5467 | Sequence 5467, Ap |
| 133 | 32 | 58.2 | 444 | 11 | US-11-087-099-5865 | Sequence 5865, Ap |
| 134 | 32 | 58.2 | 444 | 11 | US-11-087-099-6191 | Sequence 6191, Ap |
| 135 | 32 | 58.2 | 444 | 11 | US-11-087-099-11669 | Sequence 11669, A |
| 136 | 32 | 58.2 | 446 | 11 | US-11-087-099-2390 | Sequence 2390, Ap |
| 137 | 32 | 58.2 | 446 | 11 | US-11-087-099-5485 | Sequence 5485, Ap |
| 138 | 32 | 58.2 | 446 | 11 | US-11-087-099-6010 | Sequence 6010, Ap |
| 139 | 32 | 58.2 | 446 | 11 | US-11-087-099-8376 | Sequence 8376, Ap |
| 140 | 32 | 58.2 | 450 | 11 | US-11-087-099-9745 | Sequence 9745, Ap |
| 141 | 32 | 58.2 | 538 | 11 | US-11-124-368A-311 | Sequence 311, App |
| 142 | 32 | 58.2 | 538 | 11 | US-11-124-368A-312 | Sequence 312, App |
| 143 | 32 | 58.2 | 538 | 11 | US-11-124-368A-313 | Sequence 313, App |
| 144 | 32 | 58.2 | 733 | 8 | US-10-505-928-349 | Sequence 349, App |
| 145 | 32 | 58.2 | 849 | 11 | US-11-087-099-10508 | Sequence 10508, A |
| 146 | 32 | 58.2 | 856 | 11 | US-11-087-099-5336 | Sequence 5336, Ap |
| 147 | 32 | 58.2 | 856 | 11 | US-11-087-099-10273 | Sequence 10273, A |
| 148 | 32 | 58.2 | 856 | 11 | US-11-087-099-11125 | Sequence 11125, A |
| 149 | 32 | 58.2 | 1404 | 9 | US-10-878-556A-169 | Sequence 169, App |
| 150 | 32 | 58.2 | 2442 | 9 | US-10-469-469-252 | Sequence 252, App |
| 151 | 32 | 58.2 | 2442 | 11 | US-11-154-293-4 | Sequence 4, Appli |
| 152 | 31.5 | 57.3 | 54 | 11 | US-11-196-670-62 | Sequence 62, Appl |
| 153 | 31.5 | 57.3 | 54 | 11 | US-11-196-670-64 | Sequence 64, Appl |
| 154 | 31.5 | 57.3 | 92 | 11 | US-11-096-568A-295 | Sequence 295, App |
| 155 | 31.5 | 57.3 | 99 | 11 | US-11-096-568A-294 | Sequence 294, App |
| 156 | 31.5 | 57.3 | 99 | 11 | US-11-096-568A-296 | Sequence 296, App |
| 157 | 31.5 | 57.3 | 120 | 11 | US-11-096-568A-293 | Sequence 293, App |
| 158 | 31.5 | 57.3 | 357 | 11 | US-11-072-512-2570 | Sequence 2570, Ap |
| 159 | 31.5 | 57.3 | 532 | 11 | US-11-127-877-42 | Sequence 42, Appl |
| 160 | 31.5 | 57.3 | 783 | 9 | US-10-204-639-48 | Sequence 48, Appl |
| 161 | 31.5 | 57.3 | 1104 | 11 | US-11-072-512-2506 | Sequence 2506, Ap |
| 162 | 31 | 56.4 | 8 | 11 | US-11-045-024-6746 | Sequence 6746, Ap |
| 163 | 31 | 56.4 | 9 | 11 | US-11-045-024-1935 | Sequence 1935, Ap |
| 164 | 31 | 56.4 | 9 | 11 | US-11-045-024-3253 | Sequence 3253, Ap |
| 165 | 31 | 56.4 | 9 | 11 | US-11-045-024-6747 | Sequence 6747, Ap |
| 166 | 31 | 56.4 | 9 | 11 | US-11-045-024-10082 | Sequence 10082, A |
| 167 | 31 | 56.4 | 9 | 11 | US-11-045-024-11980 | Sequence 11980, A |
| 168 | 31 | 56.4 | 10 | 11 | US-11-045-024-2176 | Sequence 2176, Ap |
| 169 | 31 | 56.4 | 10 | 11 | US-11-045-024-3333 | Sequence 3333, Ap |
| 170 | 31 | 56.4 | 10 | 11 | US-11-045-024-4680 | Sequence 4680, Ap |
| 171 | 31 | 56.4 | 10 | 11 | US-11-045-024-10085 | Sequence 10085, A |
| 172 | 31 | 56.4 | 10 | 11 | US-11-045-024-11983 | Sequence 11983, A |
| 173 | 31 | 56.4 | 11 | 11 | US-11-045-024-2408 | Sequence 2408, Ap |
| 174 | 31 | 56.4 | 11 | 11 | US-11-045-024-3427 | Sequence 3427, Ap |
| 175 | 31 | 56.4 | 11 | 11 | US-11-045-024-4835 | Sequence 4835, Ap |
| 176 | 31 | 56.4 | 11 | 11 | US-11-045-024-10089 | Sequence 10089, A |
| 177 | 31 | 56.4 | 11 | 11 | US-11-045-024-11986 | Sequence 11986, A |
| 178 | 31 | 56.4 | 15 | 9 | US-10-530-061-1708 | Sequence 1708, Ap |
| 179 | 31 | 56.4 | 15 | 11 | US-11-045-024-13417 | Sequence 13417, A |
| 180 | 31 | 56.4 | 58 | 9 | US-10-467-657-798 | Sequence 798, App |
| 181 | 31 | 56.4 | 71 | 9 | US-10-467-657-750 | Sequence 750, App |
| 182 | 31 | 56.4 | 73 | 9 | US-10-467-657-5022 | Sequence 5022, Ap |
| 183 | 31 | 56.4 | 139 | 9 | US-10-793-626-2970 | Sequence 2970, Ap |
| 184 | 31 | 56.4 | 155 | 11 | US-11-072-512-3331 | Sequence 3331, Ap |
| 185 | 31 | 56.4 | 191 | 11 | US-11-045-004-561 | Sequence 561, App |
| 186 | 31 | 56.4 | 199 | 11 | US-11-087-099-4766 | Sequence 4766, Ap |
| 187 | 31 | 56.4 | 208 | 11 | US-11-079-463-6553 | Sequence 6553, Ap |
| 188 | 31 | 56.4 | 220 | 11 | US-11-096-568A-12918 | Sequence 12918, A |
| 189 | 31 | 56.4 | 244 | 11 | US-11-087-099-9043 | Sequence 9043, Ap |
| 190 | 31 | 56.4 | 254 | 7 | US-09-810-501-69 | Sequence 69, Appl |
| 191 | 31 | 56.4 | 254 | 11 | US-11-167-831-16 | Sequence 16, Appl |
| 192 | 31 | 56.4 | 254 | 11 | US-11-167-831-17 | Sequence 17, Appl |
| 193 | 31 | 56.4 | 254 | 11 | US-11-167-831-18 | Sequence 18, Appl |
| 194 | 31 | 56.4 | 254 | 11 | US-11-167-831-19 | Sequence 19, Appl |
| 195 | 31 | 56.4 | 254 | 11 | US-11-167-831-20 | Sequence 20, Appl |
| 196 | 31 | 56.4 | 254 | 11 | US-11-167-831-21 | Sequence 21, Appl |
| 197 | 31 | 56.4 | 254 | 11 | US-11-167-831-22 | Sequence 22, Appl |
| 198 | 31 | 56.4 | 255 | 11 | US-11-087-099-1551 | Sequence 1551, Ap |
| 199 | 31 | 56.4 | 266 | 11 | US-11-072-512-3891 | Sequence 3891, Ap |
| 200 | 31 | 56.4 | 280 | 11 | US-11-079-463-7570 | Sequence 7570, Ap |
| 201 | 31 | 56.4 | 288 | 9 | US-10-853-807A-8 | Sequence 8, Appli |
| 202 | 31 | 56.4 | 300 | 11 | US-11-096-568A-26651 | Sequence 26651, A |
| 203 | 31 | 56.4 | 338 | 11 | US-11-087-099-10239 | Sequence 10239, A |
| 204 | 31 | 56.4 | 342 | 11 | US-11-087-099-2226 | Sequence 2226, Ap |
| 205 | 31 | 56.4 | 342 | 11 | US-11-188-298-2168 | Sequence 2168, Ap |
| 206 | 31 | 56.4 | 343 | 11 | US-11-087-099-7067 | Sequence 7067, Ap |
| 207 | 31 | 56.4 | 394 | 11 | US-11-096-568A-26650 | Sequence 26650, A |
| 208 | 31 | 56.4 | 403 | 11 | US-11-096-568A-26649 | Sequence 26649, A |
| 209 | 31 | 56.4 | 441 | 11 | US-11-087-099-8964 | Sequence 8964, Ap |
| 210 | 31 | 56.4 | 485 | 11 | US-11-087-099-11019 | Sequence 11019, A |
| 211 | 31 | 56.4 | 585 | 9 | US-10-469-469-162 | Sequence 162, App |
| 212 | 31 | 56.4 | 585 | 9 | US-10-469-469-165 | Sequence 165, App |
| 213 | 31 | 56.4 | 605 | 11 | US-11-127-877-71 | Sequence 71, Appl |
| 214 | 31 | 56.4 | 626 | 11 | US-11-050-346-19 | Sequence 19, Appl |
| 215 | 31 | 56.4 | 754 | 11 | US-11-096-568A-27995 | Sequence 27995, A |
| 216 | 31 | 56.4 | 773 | 11 | US-11-096-568A-27994 | Sequence 27994, A |
| 217 | 31 | 56.4 | 780 | 11 | US-11-096-568A-27993 | Sequence 27993, A |
| 218 | 31 | 56.4 | 810 | 11 | US-11-079-463-10351 | Sequence 10351, A |
| 219 | 31 | 56.4 | 912 | 11 | US-11-042-988-12 | Sequence 12, Appl |
| 220 | 31 | 56.4 | 1003 | 11 | US-11-204-755-7 | Sequence 7, Appli |
| 221 | 31 | 56.4 | 1003 | 11 | US-11-204-755-9 | Sequence 9, Appli |
| 222 | 31 | 56.4 | 1003 | 11 | US-11-204-755-11 | Sequence 11, Appl |
| 223 | 31 | 56.4 | 1067 | 11 | US-11-209-137-3 | Sequence 3, Appli |
| 224 | 31 | 56.4 | 1067 | 11 | US-11-054-912-3 | Sequence 3, Appli |
| 225 | 31 | 56.4 | 1193 | 8 | US-10-505-928-537 | Sequence 537, App |
| 226 | 31 | 56.4 | 1193 | 11 | US-11-022-478-8 | Sequence 8, Appli |
| 227 | 31 | 56.4 | 1218 | 9 | US-10-501-035-303 | Sequence 303, App |
| 228 | 31 | 56.4 | 1218 | 11 | US-11-078-735-20 | Sequence 20, Appl |
| 229 | 31 | 56.4 | 1218 | 11 | US-11-050-346-65 | Sequence 65, Appl |
| 230 | 31 | 56.4 | 1218 | 11 | US-11-103-077-20 | Sequence 20, Appl |
| 231 | 31 | 56.4 | 1218 | 11 | US-11-072-175-155 | Sequence 155, App |
| 232 | 31 | 56.4 | 1218 | 11 | US-11-022-478-4 | Sequence 4, Appli |
| 233 | 31 | 56.4 | 1218 | 11 | US-11-209-137-1 | Sequence 1, Appli |
| 234 | 31 | 56.4 | 1218 | 11 | US-11-054-912-1 | Sequence 1, Appli |
| 235 | 31 | 56.4 | 1218 | 11 | US-11-058-066-20 | Sequence 20, Appl |
| 236 | 31 | 56.4 | 1231 | 11 | US-11-096-568A-28514 | Sequence 28514, A |
| 237 | 31 | 56.4 | 1240 | 9 | US-10-506-454-1648 | Sequence 1648, Ap |
| 238 | 31 | 56.4 | 1253 | 11 | US-11-096-568A-28513 | Sequence 28513, A |
| 239 | 31 | 56.4 | 1401 | 11 | US-11-096-568A-28512 | Sequence 28512, A |
| 240 | 31 | 56.4 | 1905 | 9 | US-10-877-346-44 | Sequence 44, Appl |

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| 241 | 30 | 54.5 | 40 | 11 | US-11-004-399-1788 | Sequence 1788, Ap |
| 242 | 30 | 54.5 | 62 | 9 | US-10-914-391A-1 | Sequence 1, Appli |
| 243 | 30 | 54.5 | 68 | 11 | US-11-242-553-17 | Sequence 17, Appl |
| 244 | 30 | 54.5 | 108 | 11 | US-11-188-298-9803 | Sequence 9803, Ap |
| 245 | 30 | 54.5 | 110 | 11 | US-11-188-298-5872 | Sequence 5872, Ap |
| 246 | 30 | 54.5 | 112 | 11 | US-11-188-298-21450 | Sequence 21450, A |
| 247 | 30 | 54.5 | 129 | 11 | US-11-188-298-10208 | Sequence 10208, A |
| 248 | 30 | 54.5 | 133 | 11 | US-11-098-686-10330 | Sequence 10330, A |
| 249 | 30 | 54.5 | 142 | 9 | US-10-467-657-1558 | Sequence 1558, Ap |
| 250 | 30 | 54.5 | 145 | 11 | US-11-079-463-9226 | Sequence 9226, Ap |
| 251 | 30 | 54.5 | 158 | 9 | US-10-530-253-19 | Sequence 19, Appl |
| 252 | 30 | 54.5 | 161 | 11 | US-11-154-257-3 | Sequence 3, Appli |
| 253 | 30 | 54.5 | 178 | 11 | US-11-087-099-11625 | Sequence 11625, A |
| 254 | 30 | 54.5 | 189 | 11 | US-11-079-463-5478 | Sequence 5478, Ap |
| 255 | 30 | 54.5 | 191 | 11 | US-11-217-710-2 | Sequence 2, Appli |
| 256 | 30 | 54.5 | 195 | 11 | US-11-079-463-8110 | Sequence 8110, Ap |
| 257 | 30 | 54.5 | 199 | 11 | US-11-079-463-5975 | Sequence 5975, Ap |
| 258 | 30 | 54.5 | 200 | 11 | US-11-096-568A-5879 | Sequence 5879, Ap |
| 259 | 30 | 54.5 | 208 | 11 | US-11-096-568A-5878 | Sequence 5878, Ap |
| 260 | 30 | 54.5 | 215 | 11 | US-11-079-463-7018 | Sequence 7018, Ap |
| 261 | 30 | 54.5 | 236 | 9 | US-10-506-454-810 | Sequence 810, App |
| 262 | 30 | 54.5 | 247 | 11 | US-11-072-512-2014 | Sequence 2014, Ap |
| 263 | 30 | 54.5 | 253 | 11 | US-11-087-099-9932 | Sequence 9932, Ap |
| 264 | 30 | 54.5 | 257 | 11 | US-11-096-568A-5877 | Sequence 5877, Ap |
| 265 | 30 | 54.5 | 270 | 11 | US-11-188-298-9174 | Sequence 9174, Ap |
| 266 | 30 | 54.5 | 274 | 11 | US-11-045-004-1193 | Sequence 1193, Ap |
| 267 | 30 | 54.5 | 289 | 11 | US-11-037-243-70 | Sequence 70, Appl |
| 268 | 30 | 54.5 | 297 | 11 | US-11-174-816-41 | Sequence 41, Appl |
| 269 | 30 | 54.5 | 324 | 11 | US-11-096-568A-32570 | Sequence 32570, A |
| 270 | 30 | 54.5 | 327 | 11 | US-11-188-298-12413 | Sequence 12413, A |
| 271 | 30 | 54.5 | 328 | 9 | US-10-506-454-558 | Sequence 558, App |
| 272 | 30 | 54.5 | 328 | 11 | US-11-188-298-19647 | Sequence 19647, A |
| 273 | 30 | 54.5 | 329 | 8 | US-10-505-928-403 | Sequence 403, App |
| 274 | 30 | 54.5 | 329 | 9 | US-10-821-234-1381 | Sequence 1381, Ap |
| 275 | 30 | 54.5 | 329 | 11 | US-11-188-298-13280 | Sequence 13280, A |
| 276 | 30 | 54.5 | 332 | 11 | US-11-174-816-54 | Sequence 54, Appl |
| 277 | 30 | 54.5 | 332 | 11 | US-11-217-710-4 | Sequence 4, Appli |
| 278 | 30 | 54.5 | 335 | 11 | US-11-174-819-73 | Sequence 73, Appl |
| 279 | 30 | 54.5 | 339 | 11 | US-11-127-877-49 | Sequence 49, Appl |
| 280 | 30 | 54.5 | 339 | 11 | US-11-174-816-3 | Sequence 3, Appli |
| 281 | 30 | 54.5 | 339 | 11 | US-11-174-819-67 | Sequence 67, Appl |
| 282 | 30 | 54.5 | 339 | 11 | US-11-174-751-3 | Sequence 3, Appli |
| 283 | 30 | 54.5 | 339 | 11 | US-11-174-751-46 | Sequence 46, Appl |
| 284 | 30 | 54.5 | 339 | 11 | US-11-217-710-6 | Sequence 6, Appli |
| 285 | 30 | 54.5 | 343 | 11 | US-11-174-819-7 | Sequence 7, Appli |
| 286 | 30 | 54.5 | 345 | 11 | US-11-079-463-6197 | Sequence 6197, Ap |
| 287 | 30 | 54.5 | 347 | 11 | US-11-174-816-42 | Sequence 42, Appl |
| 288 | 30 | 54.5 | 347 | 11 | US-11-174-816-57 | Sequence 57, Appl |
| 289 | 30 | 54.5 | 347 | 11 | US-11-174-819-9 | Sequence 9, Appli |
| 290 | 30 | 54.5 | 347 | 11 | US-11-174-819-76 | Sequence 76, Appl |
| 291 | 30 | 54.5 | 348 | 11 | US-11-174-751-12 | Sequence 12, Appl |
| 292 | 30 | 54.5 | 351 | 9 | US-10-467-657-8320 | Sequence 8320, Ap |
| 293 | 30 | 54.5 | 353 | 11 | US-11-096-568A-32569 | Sequence 32569, A |
| 294 | 30 | 54.5 | 362 | 9 | US-10-784-004-365 | Sequence 365, App |
| 295 | 30 | 54.5 | 362 | 11 | US-11-087-099-3156 | Sequence 3156, Ap |
| 296 | 30 | 54.5 | 364 | 8 | US-10-505-928-253 | Sequence 253, App |
| 297 | 30 | 54.5 | 364 | 9 | US-10-784-004-686 | Sequence 686, App |
| 298 | 30 | 54.5 | 364 | 11 | US-11-096-568A-5018 | Sequence 5018, Ap |
| 299 | 30 | 54.5 | 367 | 11 | US-11-087-099-7848 | Sequence 7848, Ap |
| 300 | 30 | 54.5 | 380 | 11 | US-11-144-236-1 | Sequence 1, Appli |
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| 302 | 30 | 54.5 | 400 | 9 | US-10-948-053-4 | Sequence 4, Appli |
| 303 | 30 | 54.5 | 400 | 9 | US-10-948-053-5 | Sequence 5, Appli |
| 304 | 30 | 54.5 | 401 | 9 | US-10-510-876-2 | Sequence 2, Appli |
| 305 | 30 | 54.5 | 401 | 9 | US-10-510-876-4 | Sequence 4, Appli |
| 306 | 30 | 54.5 | 401 | 9 | US-10-948-053-2 | Sequence 2, Appli |
| 307 | 30 | 54.5 | 401 | 9 | US-10-948-053-8 | Sequence 8, Appli |
| 308 | 30 | 54.5 | 401 | 9 | US-10-921-793-52 | Sequence 52, Appl |
| 309 | 30 | 54.5 | 401 | 9 | US-10-931-198-52 | Sequence 52, Appl |
| 310 | 30 | 54.5 | 401 | 9 | US-10-942-042-52 | Sequence 52, Appl |
| 311 | 30 | 54.5 | 401 | 11 | US-11-072-175-224 | Sequence 224, App |
| 312 | 30 | 54.5 | 401 | 11 | US-11-231-963-1 | Sequence 1, Appli |
| 313 | 30 | 54.5 | 401 | 11 | US-11-254-836-1 | Sequence 1, Appli |
| 314 | 30 | 54.5 | 404 | 9 | US-10-948-053-7 | Sequence 7, Appli |
| 315 | 30 | 54.5 | 406 | 9 | US-10-948-053-6 | Sequence 6, Appli |
| 316 | 30 | 54.5 | 406 | 9 | US-10-330-773-602 | Sequence 602, App |
| 317 | 30 | 54.5 | 407 | 9 | US-10-948-053-3 | Sequence 3, Appli |
| 318 | 30 | 54.5 | 413 | 11 | US-11-096-568A-32568 | Sequence 32568, A |
| 319 | 30 | 54.5 | 419 | 11 | US-11-045-004-2110 | Sequence 2110, Ap |
| 320 | 30 | 54.5 | 423 | 11 | US-11-070-080-16 | Sequence 16, Appl |
| 321 | 30 | 54.5 | 424 | 11 | US-11-096-568A-5017 | Sequence 5017, Ap |
| 322 | 30 | 54.5 | 426 | 9 | US-10-454-437-70 | Sequence 70, Appl |
| 323 | 30 | 54.5 | 426 | 9 | US-10-454-437-72 | Sequence 72, Appl |
| 324 | 30 | 54.5 | 428 | 11 | US-11-087-099-11238 | Sequence 11238, A |
| 325 | 30 | 54.5 | 438 | 11 | US-11-096-568A-5016 | Sequence 5016, Ap |
| 326 | 30 | 54.5 | 439 | 9 | US-10-784-004-404 | Sequence 404, App |
| 327 | 30 | 54.5 | 463 | 11 | US-11-264-096-212 | Sequence 212, App |
| 328 | 30 | 54.5 | 472 | 11 | US-11-087-099-5482 | Sequence 5482, Ap |
| 329 | 30 | 54.5 | 474 | 11 | US-11-087-099-5559 | Sequence 5559, Ap |
| 330 | 30 | 54.5 | 489 | 11 | US-11-264-096-211 | Sequence 211, App |
| 331 | 30 | 54.5 | 537 | 11 | US-11-144-236-6 | Sequence 6, Appli |
| 332 | 30 | 54.5 | 551 | 11 | US-11-152-366-42 | Sequence 42, Appl |
| 333 | 30 | 54.5 | 565 | 11 | US-11-127-877-68 | Sequence 68, Appl |
| 334 | 30 | 54.5 | 565 | 11 | US-11-152-366-41 | Sequence 41, Appl |
| 335 | 30 | 54.5 | 626 | 9 | US-10-467-657-1772 | Sequence 1772, Ap |
| 336 | 30 | 54.5 | 651 | 11 | US-11-188-298-295 | Sequence 295, App |
| 337 | 30 | 54.5 | 752 | 9 | US-10-506-454-157 | Sequence 157, App |
| 338 | 30 | 54.5 | 767 | 9 | US-10-467-657-2430 | Sequence 2430, Ap |
| 339 | 30 | 54.5 | 767 | 9 | US-10-467-657-6630 | Sequence 6630, Ap |
| 340 | 30 | 54.5 | 783 | 11 | US-11-037-243-67 | Sequence 67, Appl |
| 341 | 30 | 54.5 | 798 | 8 | US-10-511-937-2445 | Sequence 2445, Ap |
| 342 | 30 | 54.5 | 798 | 11 | US-11-107-028-3 | Sequence 3, Appli |
| 343 | 30 | 54.5 | 969 | 8 | US-10-505-928-94 | Sequence 94, Appl |
| 344 | 30 | 54.5 | 969 | 9 | US-10-501-035-361 | Sequence 361, App |
| 345 | 30 | 54.5 | 1026 | 11 | US-11-072-512-2509 | Sequence 2509, Ap |
| 346 | 30 | 54.5 | 1081 | 11 | US-11-142-700-29 | Sequence 29, Appl |
| 347 | 30 | 54.5 | 1086 | 11 | US-11-142-700-10 | Sequence 10, Appl |
| 348 | 30 | 54.5 | 1094 | 11 | US-11-096-568A-14788 | Sequence 14788, A |
| 349 | 30 | 54.5 | 1144 | 9 | US-10-467-657-1820 | Sequence 1820, Ap |
| 350 | 30 | 54.5 | 1148 | 11 | US-11-142-700-4 | Sequence 4, Appli |
| 351 | 30 | 54.5 | 1165 | 11 | US-11-142-700-8 | Sequence 8, Appli |
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| 354 | 30 | 54.5 | 1428 | 9 | US-10-877-346-33 | Sequence 33, Appl |
| 355 | 30 | 54.5 | 1437 | 11 | US-11-079-463-8094 | Sequence 8094, Ap |
| 356 | 30 | 54.5 | 1620 | 9 | US-10-055-877-213 | Sequence 213, App |
| 357 | 30 | 54.5 | 1798 | 9 | US-10-995-561-1033 | Sequence 1033, Ap |
| 358 | 30 | 54.5 | 1798 | 9 | US-10-995-561-1034 | Sequence 1034, Ap |
| 359 | 30 | 54.5 | 1985 | 9 | US-10-501-035-218 | Sequence 218, App |
| 360 | 30 | 54.5 | 2414 | 11 | US-11-154-293-8 | Sequence 8, Appli |
| 361 | 30 | 54.5 | 2440 | 9 | US-10-766-317-10 | Sequence 10, Appl |
| 362 | 30 | 54.5 | 2890 | 11 | US-11-115-639-31 | Sequence 31, Appl |
| 363 | 30 | 54.5 | 2890 | 11 | US-11-115-639-32 | Sequence 32, Appl |
| 364 | 30 | 54.5 | 2890 | 11 | US-11-115-639-33 | Sequence 33, Appl |
| 365 | 30 | 54.5 | 3333 | 9 | US-10-766-317-4 | Sequence 4, Appli |
| 366 | 30 | 54.5 | 3635 | 11 | US-11-019-711-47 | Sequence 47, Appl |
| 367 | 30 | 54.5 | 3690 | 9 | US-10-995-561-1016 | Sequence 1016, Ap |
| 368 | 30 | 54.5 | 3714 | 9 | US-10-995-561-1015 | Sequence 1015, Ap |
| 369 | 30 | 54.5 | 3717 | 9 | US-10-821-234-1076 | Sequence 1076, Ap |
| 370 | 30 | 54.5 | 3969 | 9 | US-10-974-127A-59 | Sequence 59, Appl |
| 371 | 29.5 | 53.6 | 203 | 11 | US-11-172-740-1186 | Sequence 1186, Ap |
| 372 | 29.5 | 53.6 | 376 | 9 | US-10-201-525-7 | Sequence 7, Appli |
| 373 | 29.5 | 53.6 | 498 | 11 | US-11-188-298-14596 | Sequence 14596, A |
| 374 | 29.5 | 53.6 | 1609 | 11 | US-11-072-175-185 | Sequence 185, App |
| 375 | 29 | 52.7 | 8 | 11 | US-11-045-024-10078 | Sequence 10078, A |
| 376 | 29 | 52.7 | 8 | 11 | US-11-045-024-11977 | Sequence 11977, A |
| 377 | 29 | 52.7 | 10 | 11 | US-11-045-024-10129 | Sequence 10129, A |
| 378 | 29 | 52.7 | 11 | 11 | US-11-045-024-10090 | Sequence 10090, A |
| 379 | 29 | 52.7 | 17 | 11 | US-11-198-847-334 | Sequence 334, App |
| 380 | 29 | 52.7 | 17 | 11 | US-11-198-847-335 | Sequence 335, App |
| 381 | 29 | 52.7 | 19 | 11 | US-11-198-847-235 | Sequence 235, App |
| 382 | 29 | 52.7 | 19 | 11 | US-11-198-847-236 | Sequence 236, App |
| 383 | 29 | 52.7 | 34 | 11 | US-11-004-399-2295 | Sequence 2295, Ap |
| 384 | 29 | 52.7 | 67 | 11 | US-11-096-568A-1034 | Sequence 1034, Ap |
| 385 | 29 | 52.7 | 72 | 11 | US-11-198-847-14 | Sequence 14, Appl |
| 386 | 29 | 52.7 | 72 | 11 | US-11-198-847-221 | Sequence 221, App |

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| 387 | 29 | 52.7 | 76 | 11 | US-11-174-996A-63 | Sequence 63, Appl |
| 388 | 29 | 52.7 | 76 | 11 | US-11-174-996A-65 | Sequence 65, Appl |
| 389 | 29 | 52.7 | 76 | 11 | US-11-188-298-20066 | Sequence 20066, A |
| 390 | 29 | 52.7 | 82 | 9 | US-10-467-657-4230 | Sequence 4230, Ap |
| 391 | 29 | 52.7 | 85 | 11 | US-11-188-298-19214 | Sequence 19214, A |
| 392 | 29 | 52.7 | 86 | 11 | US-11-188-298-8724 | Sequence 8724, Ap |
| 393 | 29 | 52.7 | 87 | 11 | US-11-096-568A-1033 | Sequence 1033, Ap |
| 394 | 29 | 52.7 | 93 | 11 | US-11-096-568A-3526 | Sequence 3526, Ap |
| 395 | 29 | 52.7 | 94 | 9 | US-10-887-770-10 | Sequence 10, Appl |
| 396 | 29 | 52.7 | 97 | 11 | US-11-172-740-1554 | Sequence 1554, Ap |
| 397 | 29 | 52.7 | 98 | 11 | US-11-188-298-1119 | Sequence 1119, Ap |
| 398 | 29 | 52.7 | 101 | 7 | US-09-978-360A-522 | Sequence 522, App |
| 399 | 29 | 52.7 | 101 | 11 | US-11-172-740-1553 | Sequence 1553, Ap |
| 400 | 29 | 52.7 | 101 | 11 | US-11-205-883A-6 | Sequence 6, Appli |
| 401 | 29 | 52.7 | 109 | 11 | US-11-096-568A-3602 | Sequence 3602, Ap |
| 402 | 29 | 52.7 | 110 | 11 | US-11-172-740-1549 | Sequence 1549, Ap |
| 403 | 29 | 52.7 | 110 | 11 | US-11-188-298-6810 | Sequence 6810, Ap |
| 404 | 29 | 52.7 | 110 | 11 | US-11-188-298-7736 | Sequence 7736, Ap |
| 405 | 29 | 52.7 | 110 | 11 | US-11-188-298-8129 | Sequence 8129, Ap |
| 406 | 29 | 52.7 | 110 | 11 | US-11-188-298-8821 | Sequence 8821, Ap |
| 407 | 29 | 52.7 | 110 | 11 | US-11-188-298-9394 | Sequence 9394, Ap |
| 408 | 29 | 52.7 | 110 | 11 | US-11-188-298-14360 | Sequence 14360, A |
| 409 | 29 | 52.7 | 110 | 11 | US-11-188-298-14516 | Sequence 14516, A |
| 410 | 29 | 52.7 | 110 | 11 | US-11-188-298-16874 | Sequence 16874, A |
| 411 | 29 | 52.7 | 110 | 11 | US-11-188-298-17121 | Sequence 17121, A |
| 412 | 29 | 52.7 | 110 | 11 | US-11-188-298-17288 | Sequence 17288, A |
| 413 | 29 | 52.7 | 110 | 11 | US-11-188-298-17374 | Sequence 17374, A |
| 414 | 29 | 52.7 | 110 | 11 | US-11-188-298-20064 | Sequence 20064, A |
| 415 | 29 | 52.7 | 110 | 11 | US-11-188-298-20232 | Sequence 20232, A |
| 416 | 29 | 52.7 | 110 | 11 | US-11-188-298-22105 | Sequence 22105, A |
| 417 | 29 | 52.7 | 116 | 11 | US-11-096-568A-3601 | Sequence 3601, Ap |
| 418 | 29 | 52.7 | 118 | 11 | US-11-096-568A-9801 | Sequence 9801, Ap |
| 419 | 29 | 52.7 | 119 | 11 | US-11-096-568A-24863 | Sequence 24863, A |
| 420 | 29 | 52.7 | 150 | 9 | US-10-793-626-328 | Sequence 328, App |
| 421 | 29 | 52.7 | 152 | 9 | US-10-530-253-39 | Sequence 39, Appl |
| 422 | 29 | 52.7 | 169 | 11 | US-11-096-568A-14570 | Sequence 14570, A |
| 423 | 29 | 52.7 | 178 | 9 | US-10-511-538-243 | Sequence 243, App |
| 424 | 29 | 52.7 | 178 | 11 | US-11-188-298-21910 | Sequence 21910, A |
| 425 | 29 | 52.7 | 180 | 11 | US-11-188-298-11472 | Sequence 11472, A |
| 426 | 29 | 52.7 | 183 | 11 | US-11-188-298-22542 | Sequence 22542, A |
| 427 | 29 | 52.7 | 184 | 11 | US-11-172-740-1185 | Sequence 1185, Ap |
| 428 | 29 | 52.7 | 192 | 11 | US-11-079-463-5610 | Sequence 5610, Ap |
| 429 | 29 | 52.7 | 198 | 11 | US-11-255-547-2 | Sequence 2, Appli |
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| 431 | 29 | 52.7 | 210 | 9 | US-10-330-773-614 | Sequence 614, App |
| 432 | 29 | 52.7 | 213 | 11 | US-11-096-568A-22424 | Sequence 22424, A |
| 433 | 29 | 52.7 | 217 | 11 | US-11-096-568A-615 | Sequence 615, App |
| 434 | 29 | 52.7 | 217 | 11 | US-11-188-298-13290 | Sequence 13290, A |
| 435 | 29 | 52.7 | 219 | 11 | US-11-079-463-9752 | Sequence 9752, Ap |
| 436 | 29 | 52.7 | 219 | 11 | US-11-188-298-3554 | Sequence 3554, Ap |
| 437 | 29 | 52.7 | 222 | 9 | US-10-467-657-7990 | Sequence 7990, Ap |
| 438 | 29 | 52.7 | 227 | 11 | US-11-096-568A-15842 | Sequence 15842, A |
| 439 | 29 | 52.7 | 229 | 9 | US-10-330-773-616 | Sequence 616, App |
| 440 | 29 | 52.7 | 231 | 11 | US-11-096-568A-27105 | Sequence 27105, A |
| 441 | 29 | 52.7 | 233 | 9 | US-10-506-454-1057 | Sequence 1057, Ap |
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| 444 | 29 | 52.7 | 238 | 11 | US-11-096-568A-27104 | Sequence 27104, A |
| 445 | 29 | 52.7 | 239 | 11 | US-11-188-298-1452 | Sequence 1452, Ap |
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| 450 | 29 | 52.7 | 258 | 11 | US-11-096-568A-10811 | Sequence 10811, A |
| 451 | 29 | 52.7 | 264 | 11 | US-11-096-568A-14569 | Sequence 14569, A |
| 452 | 29 | 52.7 | 274 | 11 | US-11-096-568A-16007 | Sequence 16007, A |
| 453 | 29 | 52.7 | 276 | 11 | US-11-188-298-1735 | Sequence 1735, Ap |
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| 455 | 29 | 52.7 | 279 | 11 | US-11-096-568A-18292 | Sequence 18292, A |
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| 457 | 29 | 52.7 | 284 | 11 | US-11-096-568A-29088 | Sequence 29088, A |
| 458 | 29 | 52.7 | 285 | 11 | US-11-188-298-17365 | Sequence 17365, A |
| 459 | 29 | 52.7 | 288 | 11 | US-11-096-568A-25131 | Sequence 25131, A |
| 460 | 29 | 52.7 | 298 | 9 | US-10-467-657-4362 | Sequence 4362, Ap |
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| 464 | 29 | 52.7 | 337 | 11 | US-11-096-568A-12511 | Sequence 12511, A |
| 465 | 29 | 52.7 | 338 | 11 | US-11-079-463-6250 | Sequence 6250, Ap |
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| 467 | 29 | 52.7 | 346 | 11 | US-11-096-568A-16006 | Sequence 16006, A |
| 468 | 29 | 52.7 | 349 | 11 | US-11-096-568A-10810 | Sequence 10810, A |
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| 471 | 29 | 52.7 | 357 | 11 | US-11-096-568A-17545 | Sequence 17545, A |
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| 476 | 29 | 52.7 | 358 | 9 | US-10-219-061-138 | Sequence 138, App |
| 477 | 29 | 52.7 | 358 | 9 | US-10-219-062-138 | Sequence 138, App |
| 478 | 29 | 52.7 | 358 | 9 | US-10-219-064-138 | Sequence 138, App |
| 479 | 29 | 52.7 | 358 | 9 | US-10-233-134-138 | Sequence 138, App |
| 480 | 29 | 52.7 | 358 | 9 | US-10-137-873A-416 | Sequence 416, App |
| 481 | 29 | 52.7 | 358 | 9 | US-10-152-370-416 | Sequence 416, App |
| 482 | 29 | 52.7 | 358 | 11 | US-11-227-543-21 | Sequence 21, Appl |
| 483 | 29 | 52.7 | 358 | 11 | US-11-290-153-416 | Sequence 416, App |
| 484 | 29 | 52.7 | 363 | 11 | US-11-087-099-696 | Sequence 696, App |
| 485 | 29 | 52.7 | 363 | 11 | US-11-188-298-5818 | Sequence 5818, Ap |
| 486 | 29 | 52.7 | 364 | 9 | US-10-194-487-36 | Sequence 36, Appl |
| 487 | 29 | 52.7 | 364 | 9 | US-10-195-883-36 | Sequence 36, Appl |
| 488 | 29 | 52.7 | 364 | 9 | US-10-195-888-36 | Sequence 36, Appl |
| 489 | 29 | 52.7 | 364 | 9 | US-10-195-889-36 | Sequence 36, Appl |
| 490 | 29 | 52.7 | 364 | 9 | US-10-216-161A-515 | Sequence 515, App |
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| 492 | 29 | 52.7 | 367 | 11 | US-11-087-099-3951 | Sequence 3951, Ap |
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| 494 | 29 | 52.7 | 368 | 11 | US-11-087-099-1343 | Sequence 1343, Ap |
| 495 | 29 | 52.7 | 368 | 11 | US-11-087-099-10151 | Sequence 10151, A |
| 496 | 29 | 52.7 | 368 | 11 | US-11-096-568A-10809 | Sequence 10809, A |
| 497 | 29 | 52.7 | 375 | 11 | US-11-096-568A-12510 | Sequence 12510, A |
| 498 | 29 | 52.7 | 376 | 11 | US-11-213-368-6 | Sequence 6, Appli |
| 499 | 29 | 52.7 | 376 | 11 | US-11-213-368-14 | Sequence 14, Appl |
| 500 | 29 | 52.7 | 376 | 11 | US-11-238-025-36 | Sequence 36, Appl |
| 501 | 29 | 52.7 | 376 | 11 | US-11-079-463-6359 | Sequence 6359, Ap |
| 502 | 29 | 52.7 | 377 | 11 | US-11-072-512-3189 | Sequence 3189, Ap |
| 503 | 29 | 52.7 | 380 | 11 | US-11-096-568A-33548 | Sequence 33548, A |
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| 505 | 29 | 52.7 | 387 | 11 | US-11-087-099-8513 | Sequence 8513, Ap |
| 506 | 29 | 52.7 | 397 | 11 | US-11-096-568A-20829 | Sequence 20829, A |
| 507 | 29 | 52.7 | 400 | 11 | US-11-096-568A-17544 | Sequence 17544, A |
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| 509 | 29 | 52.7 | 414 | 9 | US-10-467-657-4316 | Sequence 4316, Ap |
| 510 | 29 | 52.7 | 415 | 11 | US-11-087-099-11244 | Sequence 11244, A |
| 511 | 29 | 52.7 | 416 | 11 | US-11-096-568A-20828 | Sequence 20828, A |
| 512 | 29 | 52.7 | 420 | 10 | US-11-232-370-7 | Sequence 7, Appli |
| 513 | 29 | 52.7 | 420 | 11 | US-11-096-568A-33547 | Sequence 33547, A |
| 514 | 29 | 52.7 | 424 | 11 | US-11-087-099-7859 | Sequence 7859, Ap |
| 515 | 29 | 52.7 | 425 | 11 | US-11-096-568A-25040 | Sequence 25040, A |
| 516 | 29 | 52.7 | 426 | 11 | US-11-087-099-6357 | Sequence 6357, Ap |
| 517 | 29 | 52.7 | 427 | 11 | US-11-087-099-6251 | Sequence 6251, Ap |
| 518 | 29 | 52.7 | 427 | 11 | US-11-087-099-6694 | Sequence 6694, Ap |
| 519 | 29 | 52.7 | 427 | 11 | US-11-087-099-11800 | Sequence 11800, A |
| 520 | 29 | 52.7 | 427 | 11 | US-11-087-099-12029 | Sequence 12029, A |
| 521 | 29 | 52.7 | 428 | 11 | US-11-087-099-609 | Sequence 609, App |
| 522 | 29 | 52.7 | 428 | 11 | US-11-087-099-1255 | Sequence 1255, Ap |
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| 524 | 29 | 52.7 | 428 | 11 | US-11-087-099-7343 | Sequence 7343, Ap |
| 525 | 29 | 52.7 | 428 | 11 | US-11-087-099-7665 | Sequence 7665, Ap |
| 526 | 29 | 52.7 | 429 | 11 | US-11-087-099-9002 | Sequence 9002, Ap |
| 527 | 29 | 52.7 | 430 | 11 | US-11-087-099-11559 | Sequence 11559, A |
| 528 | 29 | 52.7 | 431 | 11 | US-11-087-099-1584 | Sequence 1584, Ap |
| 529 | 29 | 52.7 | 434 | 11 | US-11-156-084-229 | Sequence 229, App |
| 530 | 29 | 52.7 | 434 | 11 | US-11-087-099-3544 | Sequence 3544, Ap |
| 531 | 29 | 52.7 | 435 | 11 | US-11-087-099-4102 | Sequence 4102, Ap |
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| 533 | 29 | 52.7 | 435 | 11 | US-11-087-099-11358 | Sequence 11358, A |
| 534 | 29 | 52.7 | 436 | 11 | US-11-087-099-3223 | Sequence 3223, Ap |
| 535 | 29 | 52.7 | 436 | 11 | US-11-087-099-6058 | Sequence 6058, Ap |
| 536 | 29 | 52.7 | 436 | 11 | US-11-087-099-7011 | Sequence 7011, Ap |
| 537 | 29 | 52.7 | 436 | 11 | US-11-087-099-7281 | Sequence 7281, Ap |
| 538 | 29 | 52.7 | 437 | 11 | US-11-087-099-3433 | Sequence 3433, Ap |
| 539 | 29 | 52.7 | 437 | 11 | US-11-087-099-5873 | Sequence 5873, Ap |
| 540 | 29 | 52.7 | 437 | 11 | US-11-087-099-12415 | Sequence 12415, A |
| 541 | 29 | 52.7 | 437 | 11 | US-11-096-568A-33546 | Sequence 33546, A |
| 542 | 29 | 52.7 | 438 | 11 | US-11-087-099-12301 | Sequence 12301, A |
| 543 | 29 | 52.7 | 438 | 11 | US-11-096-568A-32128 | Sequence 32128, A |
| 544 | 29 | 52.7 | 449 | 8 | US-10-505-928-517 | Sequence 517, App |
| 545 | 29 | 52.7 | 449 | 11 | US-11-177-506-32 | Sequence 32, Appl |
| 546 | 29 | 52.7 | 460 | 11 | US-11-096-568A-20827 | Sequence 20827, A |
| 547 | 29 | 52.7 | 463 | 9 | US-10-821-234-1094 | Sequence 1094, Ap |
| 548 | 29 | 52.7 | 466 | 11 | US-11-087-099-1606 | Sequence 1606, Ap |
| 549 | 29 | 52.7 | 473 | 11 | US-11-087-099-1302 | Sequence 1302, Ap |
| 550 | 29 | 52.7 | 473 | 11 | US-11-188-298-1021 | Sequence 1021, Ap |
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| 552 | 29 | 52.7 | 486 | 11 | US-11-000-463-273 | Sequence 273, App |
| 553 | 29 | 52.7 | 497 | 9 | US-10-501-035-337 | Sequence 337, App |
| 554 | 29 | 52.7 | 497 | 11 | US-11-096-568A-3270 | Sequence 3270, Ap |
| 555 | 29 | 52.7 | 499 | 11 | US-11-096-568A-17543 | Sequence 17543, A |
| 556 | 29 | 52.7 | 501 | 11 | US-11-172-740-441 | Sequence 441, App |
| 557 | 29 | 52.7 | 516 | 11 | US-11-096-568A-18290 | Sequence 18290, A |
| 558 | 29 | 52.7 | 516 | 11 | US-11-096-568A-32126 | Sequence 32126, A |
| 559 | 29 | 52.7 | 518 | 11 | US-11-188-298-10922 | Sequence 10922, A |
| 560 | 29 | 52.7 | 519 | 11 | US-11-188-298-10418 | Sequence 10418, A |
| 561 | 29 | 52.7 | 522 | 11 | US-11-188-298-7653 | Sequence 7653, Ap |
| 562 | 29 | 52.7 | 524 | 9 | US-10-878-556A-131 | Sequence 131, App |
| 563 | 29 | 52.7 | 524 | 10 | US-11-232-370-12 | Sequence 12, Appl |
| 564 | 29 | 52.7 | 525 | 10 | US-11-232-370-13 | Sequence 13, Appl |
| 565 | 29 | 52.7 | 525 | 10 | US-11-232-370-14 | Sequence 14, Appl |
| 566 | 29 | 52.7 | 530 | 11 | US-11-110-082-32 | Sequence 32, Appl |
| 567 | 29 | 52.7 | 531 | 11 | US-11-188-298-19615 | Sequence 19615, A |
| 568 | 29 | 52.7 | 539 | 11 | US-11-183-136-38 | Sequence 38, Appl |
| 569 | 29 | 52.7 | 543 | 10 | US-11-232-370-6 | Sequence 6, Appli |
| 570 | 29 | 52.7 | 543 | 11 | US-11-188-298-2101 | Sequence 2101, Ap |
| 571 | 29 | 52.7 | 544 | 10 | US-11-232-370-9 | Sequence 9, Appli |
| 572 | 29 | 52.7 | 544 | 10 | US-11-232-370-11 | Sequence 11, Appl |
| 573 | 29 | 52.7 | 545 | 10 | US-11-232-370-8 | Sequence 8, Appli |
| 574 | 29 | 52.7 | 545 | 11 | US-11-134-563-16 | Sequence 16, Appl |
| 575 | 29 | 52.7 | 545 | 11 | US-11-188-298-21733 | Sequence 21733, A |
| 576 | 29 | 52.7 | 548 | 11 | US-11-188-298-10840 | Sequence 10840, A |
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| 578 | 29 | 52.7 | 557 | 9 | US-10-821-234-895 | Sequence 895, App |
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| 581 | 29 | 52.7 | 570 | 11 | US-11-096-568A-3271 | Sequence 3271, Ap |
| 582 | 29 | 52.7 | 600 | 11 | US-11-096-568A-3268 | Sequence 3268, Ap |
| 583 | 29 | 52.7 | 605 | 11 | US-11-046-653-3 | Sequence 3, Appli |
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| 585 | 29 | 52.7 | 628 | 11 | US-11-183-136-10 | Sequence 10, Appl |
| 586 | 29 | 52.7 | 628 | 11 | US-11-183-136-12 | Sequence 12, Appl |
| 587 | 29 | 52.7 | 655 | 8 | US-10-505-928-843 | Sequence 843, App |
| 588 | 29 | 52.7 | 655 | 9 | US-10-194-487-418 | Sequence 418, App |
| 589 | 29 | 52.7 | 655 | 9 | US-10-195-883-418 | Sequence 418, App |
| 590 | 29 | 52.7 | 655 | 9 | US-10-195-888-418 | Sequence 418, App |
| 591 | 29 | 52.7 | 655 | 9 | US-10-195-889-418 | Sequence 418, App |
| 592 | 29 | 52.7 | 655 | 9 | US-10-216-161A-64 | Sequence 64, Appl |
| 593 | 29 | 52.7 | 655 | 11 | US-11-072-175-199 | Sequence 199, App |
| 594 | 29 | 52.7 | 668 | 11 | US-11-096-568A-31245 | Sequence 31245, A |
| 595 | 29 | 52.7 | 673 | 9 | US-10-469-469-212 | Sequence 212, App |
| 596 | 29 | 52.7 | 673 | 9 | US-10-469-469-214 | Sequence 214, App |
| 597 | 29 | 52.7 | 690 | 11 | US-11-096-568A-31244 | Sequence 31244, A |
| 598 | 29 | 52.7 | 691 | 11 | US-11-274-344-18 | Sequence 18, Appl |
| 599 | 29 | 52.7 | 705 | 11 | US-11-188-298-20662 | Sequence 20662, A |
| 600 | 29 | 52.7 | 712 | 11 | US-11-037-243-69 | Sequence 69, Appl |
| 601 | 29 | 52.7 | 717 | 9 | US-10-624-932-12 | Sequence 12, Appl |
| 602 | 29 | 52.7 | 762 | 9 | US-10-954-468-42 | Sequence 42, Appl |
| 603 | 29 | 52.7 | 762 | 9 | US-10-506-454-648 | Sequence 648, App |
| 604 | 29 | 52.7 | 780 | 11 | US-11-188-298-16517 | Sequence 16517, A |
| 605 | 29 | 52.7 | 824 | 11 | US-11-188-298-12854 | Sequence 12854, A |
| 606 | 29 | 52.7 | 829 | 11 | US-11-096-568A-20149 | Sequence 20149, A |
| 607 | 29 | 52.7 | 838 | 11 | US-11-087-099-9591 | Sequence 9591, Ap |
| 608 | 29 | 52.7 | 843 | 11 | US-11-096-568A-20148 | Sequence 20148, A |
| 609 | 29 | 52.7 | 846 | 11 | US-11-087-099-4851 | Sequence 4851, Ap |
| 610 | 29 | 52.7 | 858 | 11 | US-11-087-099-11449 | Sequence 11449, A |
| 611 | 29 | 52.7 | 876 | 11 | US-11-096-568A-20147 | Sequence 20147, A |
| 612 | 29 | 52.7 | 878 | 9 | US-10-954-468-41 | Sequence 41, Appl |
| 613 | 29 | 52.7 | 882 | 11 | US-11-096-568A-31243 | Sequence 31243, A |
| 614 | 29 | 52.7 | 937 | 9 | US-10-512-544-1 | Sequence 1, Appli |
| 615 | 29 | 52.7 | 985 | 9 | US-10-954-468-39 | Sequence 39, Appl |
| 616 | 29 | 52.7 | 1005 | 11 | US-11-113-424-63 | Sequence 63, Appl |
| 617 | 29 | 52.7 | 1011 | 9 | US-10-877-346-127 | Sequence 127, App |
| 618 | 29 | 52.7 | 1048 | 9 | US-10-501-035-229 | Sequence 229, App |
| 619 | 29 | 52.7 | 1077 | 11 | US-11-096-568A-27027 | Sequence 27027, A |
| 620 | 29 | 52.7 | 1088 | 11 | US-11-096-568A-28144 | Sequence 28144, A |
| 621 | 29 | 52.7 | 1198 | 9 | US-10-877-346-35 | Sequence 35, Appl |
| 622 | 29 | 52.7 | 1221 | 9 | US-10-506-454-49 | Sequence 49, Appl |
| 623 | 29 | 52.7 | 1275 | 9 | US-10-877-346-36 | Sequence 36, Appl |
| 624 | 29 | 52.7 | 1299 | 9 | US-10-204-639-70 | Sequence 70, Appl |
| 625 | 29 | 52.7 | 1388 | 11 | US-11-098-686-11149 | Sequence 11149, A |
| 626 | 29 | 52.7 | 1428 | 9 | US-10-877-346-34 | Sequence 34, Appl |
| 627 | 29 | 52.7 | 1517 | 11 | US-11-096-568A-27856 | Sequence 27856, A |
| 628 | 29 | 52.7 | 1518 | 11 | US-11-096-568A-27855 | Sequence 27855, A |
| 629 | 29 | 52.7 | 1522 | 11 | US-11-096-568A-27600 | Sequence 27600, A |
| 630 | 29 | 52.7 | 1523 | 11 | US-11-096-568A-27599 | Sequence 27599, A |
| 631 | 29 | 52.7 | 1706 | 11 | US-11-096-568A-27854 | Sequence 27854, A |
| 632 | 29 | 52.7 | 1711 | 11 | US-11-096-568A-27598 | Sequence 27598, A |
| 633 | 29 | 52.7 | 1963 | 9 | US-10-877-346-43 | Sequence 43, Appl |
| 634 | 29 | 52.7 | 2250 | 9 | US-10-922-232B-57 | Sequence 57, Appl |
| 635 | 29 | 52.7 | 3712 | 11 | US-11-019-711-48 | Sequence 48, Appl |
| 636 | 29 | 52.7 | 3712 | 11 | US-11-019-711-51 | Sequence 51, Appl |
| 637 | 29 | 52.7 | 4060 | 9 | US-10-922-232B-55 | Sequence 55, Appl |
| 638 | 29 | 52.7 | 6738 | 9 | US-10-922-232B-56 | Sequence 56, Appl |
| 639 | 28.5 | 51.8 | 543 | 11 | US-11-096-568A-12653 | Sequence 12653, A |
| 640 | 28.5 | 51.8 | 720 | 11 | US-11-121-438-18 | Sequence 18, Appl |
| 641 | 28 | 50.9 | 10 | 9 | US-10-530-061-473 | Sequence 473, App |
| 642 | 28 | 50.9 | 10 | 9 | US-10-530-061-567 | Sequence 567, App |
| 643 | 28 | 50.9 | 10 | 9 | US-10-530-061-568 | Sequence 568, App |
| 644 | 28 | 50.9 | 12 | 11 | US-11-004-399-2984 | Sequence 2984, Ap |
| 645 | 28 | 50.9 | 33 | 11 | US-11-121-301-37 | Sequence 37, Appl |
| 646 | 28 | 50.9 | 35 | 11 | US-11-019-027-29 | Sequence 29, Appl |
| 647 | 28 | 50.9 | 36 | 11 | US-11-229-769-295 | Sequence 295, App |
| 648 | 28 | 50.9 | 39 | 11 | US-11-144-947-598 | Sequence 598, App |
| 649 | 28 | 50.9 | 43 | 11 | US-11-240-769-84 | Sequence 84, Appl |
| 650 | 28 | 50.9 | 44 | 9 | US-10-467-657-5836 | Sequence 5836, Ap |
| 651 | 28 | 50.9 | 47 | 9 | US-10-877-346-81 | Sequence 81, Appl |
| 652 | 28 | 50.9 | 52 | 11 | US-11-188-298-3867 | Sequence 3867, Ap |
| 653 | 28 | 50.9 | 66 | 11 | US-11-172-536-10 | Sequence 10, Appl |
| 654 | 28 | 50.9 | 84 | 11 | US-11-240-769-60 | Sequence 60, Appl |
| 655 | 28 | 50.9 | 86 | 11 | US-11-188-298-2781 | Sequence 2781, Ap |
| 656 | 28 | 50.9 | 99 | 11 | US-11-207-078-194 | Sequence 194, App |
| 657 | 28 | 50.9 | 101 | 11 | US-11-172-740-1550 | Sequence 1550, Ap |
| 658 | 28 | 50.9 | 101 | 11 | US-11-172-740-1551 | Sequence 1551, Ap |
| 659 | 28 | 50.9 | 101 | 11 | US-11-172-740-1552 | Sequence 1552, Ap |
| 660 | 28 | 50.9 | 105 | 11 | US-11-172-536-11 | Sequence 11, Appl |
| 661 | 28 | 50.9 | 105 | 11 | US-11-188-298-16587 | Sequence 16587, A |
| 662 | 28 | 50.9 | 107 | 11 | US-11-096-568A-14224 | Sequence 14224, A |
| 663 | 28 | 50.9 | 107 | 11 | US-11-188-298-20880 | Sequence 20880, A |
| 664 | 28 | 50.9 | 110 | 11 | US-11-232-440-61 | Sequence 61, Appl |
| 665 | 28 | 50.9 | 110 | 11 | US-11-188-298-353 | Sequence 353, App |
| 666 | 28 | 50.9 | 113 | 11 | US-11-296-524-7 | Sequence 7, Appli |
| 667 | 28 | 50.9 | 117 | 11 | US-11-188-298-22298 | Sequence 22298, A |
| 668 | 28 | 50.9 | 132 | 8 | US-10-505-928-41 | Sequence 41, Appl |
| 669 | 28 | 50.9 | 132 | 11 | US-11-096-568A-517 | Sequence 517, App |
| 670 | 28 | 50.9 | 138 | 11 | US-11-096-568A-516 | Sequence 516, App |
| 671 | 28 | 50.9 | 138 | 11 | US-11-296-017-1 | Sequence 1, Appli |
| 672 | 28 | 50.9 | 140 | 11 | US-11-072-512-3489 | Sequence 3489, Ap |
| 673 | 28 | 50.9 | 141 | 11 | US-11-296-017-2 | Sequence 2, Appli |
| 674 | 28 | 50.9 | 147 | 11 | US-11-188-298-20769 | Sequence 20769, A |
| 675 | 28 | 50.9 | 150 | 11 | US-11-096-568A-7097 | Sequence 7097, Ap |
| 676 | 28 | 50.9 | 159 | 11 | US-11-132-285-7 | Sequence 7, Appli |
| 677 | 28 | 50.9 | 167 | 9 | US-10-467-657-7272 | Sequence 7272, Ap |
| 678 | 28 | 50.9 | 167 | 11 | US-11-096-568A-7096 | Sequence 7096, Ap |

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| 679 | 28 | 50.9 | 175 | 9 | US-10-506-454-84 | Sequence 84, Appl |
| 680 | 28 | 50.9 | 186 | 11 | US-11-096-568A-23760 | Sequence 23760, A |
| 681 | 28 | 50.9 | 189 | 11 | US-11-140-024-3 | Sequence 3, Appli |
| 682 | 28 | 50.9 | 189 | 11 | US-11-096-568A-7095 | Sequence 7095, Ap |
| 683 | 28 | 50.9 | 189 | 11 | US-11-096-568A-12731 | Sequence 12731, A |
| 684 | 28 | 50.9 | 192 | 9 | US-10-506-454-571 | Sequence 571, App |
| 685 | 28 | 50.9 | 194 | 9 | US-10-784-004-334 | Sequence 334, App |
| 686 | 28 | 50.9 | 200 | 11 | US-11-096-568A-21394 | Sequence 21394, A |
| 687 | 28 | 50.9 | 205 | 11 | US-11-188-298-9089 | Sequence 9089, Ap |
| 688 | 28 | 50.9 | 207 | 11 | US-11-072-512-2607 | Sequence 2607, Ap |
| 689 | 28 | 50.9 | 207 | 11 | US-11-096-568A-998 | Sequence 998, App |
| 690 | 28 | 50.9 | 212 | 11 | US-11-096-568A-33085 | Sequence 33085, A |
| 691 | 28 | 50.9 | 213 | 11 | US-11-087-099-1494 | Sequence 1494, Ap |
| 692 | 28 | 50.9 | 214 | 11 | US-11-079-463-7265 | Sequence 7265, Ap |
| 693 | 28 | 50.9 | 214 | 11 | US-11-079-463-10324 | Sequence 10324, A |
| 694 | 28 | 50.9 | 215 | 9 | US-10-793-626-1580 | Sequence 1580, Ap |
| 695 | 28 | 50.9 | 215 | 11 | US-11-096-568A-17779 | Sequence 17779, A |
| 696 | 28 | 50.9 | 219 | 11 | US-11-040-595-11 | Sequence 11, Appl |
| 697 | 28 | 50.9 | 219 | 11 | US-11-040-595-14 | Sequence 14, Appl |
| 698 | 28 | 50.9 | 225 | 11 | US-11-096-568A-27840 | Sequence 27840, A |
| 699 | 28 | 50.9 | 226 | 11 | US-11-132-285-5 | Sequence 5, Appli |
| 700 | 28 | 50.9 | 229 | 11 | US-11-096-568A-17778 | Sequence 17778, A |
| 701 | 28 | 50.9 | 231 | 11 | US-11-132-285-61 | Sequence 61, Appl |
| 702 | 28 | 50.9 | 235 | 11 | US-11-126-126-16 | Sequence 16, Appl |
| 703 | 28 | 50.9 | 237 | 11 | US-11-096-568A-18962 | Sequence 18962, A |
| 704 | 28 | 50.9 | 242 | 9 | US-10-725-475-13 | Sequence 13, Appl |
| 705 | 28 | 50.9 | 243 | 11 | US-11-096-568A-23759 | Sequence 23759, A |
| 706 | 28 | 50.9 | 244 | 11 | US-11-096-568A-997 | Sequence 997, App |
| 707 | 28 | 50.9 | 247 | 11 | US-11-096-568A-17777 | Sequence 17777, A |
| 708 | 28 | 50.9 | 250 | 11 | US-11-087-099-9977 | Sequence 9977, Ap |
| 709 | 28 | 50.9 | 253 | 11 | US-11-096-568A-33084 | Sequence 33084, A |
| 710 | 28 | 50.9 | 256 | 11 | US-11-098-686-11223 | Sequence 11223, A |
| 711 | 28 | 50.9 | 256 | 11 | US-11-096-568A-19640 | Sequence 19640, A |
| 712 | 28 | 50.9 | 256 | 11 | US-11-096-568A-23905 | Sequence 23905, A |
| 713 | 28 | 50.9 | 261 | 11 | US-11-096-568A-21393 | Sequence 21393, A |
| 714 | 28 | 50.9 | 261 | 11 | US-11-188-298-2418 | Sequence 2418, Ap |
| 715 | 28 | 50.9 | 262 | 11 | US-11-072-512-2006 | Sequence 2006, Ap |
| 716 | 28 | 50.9 | 267 | 11 | US-11-188-298-5960 | Sequence 5960, Ap |
| 717 | 28 | 50.9 | 269 | 11 | US-11-188-298-10696 | Sequence 10696, A |
| 718 | 28 | 50.9 | 270 | 11 | US-11-264-096-1832 | Sequence 1832, Ap |
| 719 | 28 | 50.9 | 272 | 11 | US-11-096-568A-12730 | Sequence 12730, A |
| 720 | 28 | 50.9 | 293 | 11 | US-11-079-463-6530 | Sequence 6530, Ap |
| 721 | 28 | 50.9 | 296 | 11 | US-11-229-769-293 | Sequence 293, App |
| 722 | 28 | 50.9 | 297 | 9 | US-10-967-527A-17 | Sequence 17, Appl |
| 723 | 28 | 50.9 | 297 | 11 | US-11-096-568A-19638 | Sequence 19638, A |
| 724 | 28 | 50.9 | 300 | 11 | US-11-079-463-8690 | Sequence 8690, Ap |
| 725 | 28 | 50.9 | 307 | 11 | US-11-098-686-11008 | Sequence 11008, A |
| 726 | 28 | 50.9 | 307 | 11 | US-11-096-568A-27839 | Sequence 27839, A |
| 727 | 28 | 50.9 | 314 | 11 | US-11-096-568A-10948 | Sequence 10948, A |
| 728 | 28 | 50.9 | 321 | 11 | US-11-172-740-1698 | Sequence 1698, Ap |
| 729 | 28 | 50.9 | 321 | 11 | US-11-172-740-1699 | Sequence 1699, Ap |
| 730 | 28 | 50.9 | 321 | 11 | US-11-188-298-5115 | Sequence 5115, Ap |
| 731 | 28 | 50.9 | 321 | 11 | US-11-188-298-7609 | Sequence 7609, Ap |
| 732 | 28 | 50.9 | 323 | 11 | US-11-264-096-1402 | Sequence 1402, Ap |
| 733 | 28 | 50.9 | 331 | 9 | US-10-506-454-362 | Sequence 362, App |
| 734 | 28 | 50.9 | 331 | 11 | US-11-087-099-8495 | Sequence 8495, Ap |
| 735 | 28 | 50.9 | 340 | 11 | US-11-188-298-8371 | Sequence 8371, Ap |
| 736 | 28 | 50.9 | 341 | 11 | US-11-087-099-2030 | Sequence 2030, Ap |
| 737 | 28 | 50.9 | 341 | 11 | US-11-087-099-9325 | Sequence 9325, Ap |
| 738 | 28 | 50.9 | 343 | 11 | US-11-087-099-7763 | Sequence 7763, Ap |
| 739 | 28 | 50.9 | 344 | 9 | US-10-467-657-8284 | Sequence 8284, Ap |
| 740 | 28 | 50.9 | 344 | 11 | US-11-096-568A-12729 | Sequence 12729, A |
| 741 | 28 | 50.9 | 352 | 11 | US-11-087-099-837 | Sequence 837, App |
| 742 | 28 | 50.9 | 353 | 11 | US-11-096-568A-30178 | Sequence 30178, A |
| 743 | 28 | 50.9 | 354 | 11 | US-11-096-568A-27838 | Sequence 27838, A |
| 744 | 28 | 50.9 | 358 | 11 | US-11-087-099-1637 | Sequence 1637, Ap |
| 745 | 28 | 50.9 | 361 | 9 | US-10-131-826A-252 | Sequence 252, App |
| 746 | 28 | 50.9 | 361 | 9 | US-10-763-712A-122 | Sequence 122, App |
| 747 | 28 | 50.9 | 361 | 9 | US-10-973-115B-252 | Sequence 252, App |
| 748 | 28 | 50.9 | 361 | 9 | US-10-137-873A-252 | Sequence 252, App |
| 749 | 28 | 50.9 | 361 | 9 | US-10-152-370-252 | Sequence 252, App |
| 750 | 28 | 50.9 | 361 | 11 | US-11-290-153-252 | Sequence 252, App |
| 751 | 28 | 50.9 | 362 | 11 | US-11-096-568A-28766 | Sequence 28766, A |
| 752 | 28 | 50.9 | 362 | 11 | US-11-096-568A-30177 | Sequence 30177, A |
| 753 | 28 | 50.9 | 363 | 11 | US-11-087-099-2077 | Sequence 2077, Ap |
| 754 | 28 | 50.9 | 364 | 11 | US-11-087-099-5795 | Sequence 5795, Ap |
| 755 | 28 | 50.9 | 364 | 11 | US-11-087-099-6283 | Sequence 6283, Ap |
| 756 | 28 | 50.9 | 364 | 11 | US-11-087-099-9690 | Sequence 9690, Ap |
| 757 | 28 | 50.9 | 369 | 11 | US-11-087-099-11848 | Sequence 11848, A |
| 758 | 28 | 50.9 | 371 | 11 | US-11-087-099-11209 | Sequence 11209, A |
| 759 | 28 | 50.9 | 373 | 11 | US-11-087-099-3876 | Sequence 3876, Ap |
| 760 | 28 | 50.9 | 374 | 11 | US-11-096-568A-28765 | Sequence 28765, A |
| 761 | 28 | 50.9 | 389 | 11 | US-11-188-743-23 | Sequence 23, Appl |
| 762 | 28 | 50.9 | 398 | 9 | US-10-915-002-311 | Sequence 311, App |
| 763 | 28 | 50.9 | 405 | 11 | US-11-096-568A-28764 | Sequence 28764, A |
| 764 | 28 | 50.9 | 409 | 11 | US-11-096-568A-10947 | Sequence 10947, A |
| 765 | 28 | 50.9 | 410 | 11 | US-11-096-568A-12704 | Sequence 12704, A |
| 766 | 28 | 50.9 | 411 | 11 | US-11-096-568A-12616 | Sequence 12616, A |
| 767 | 28 | 50.9 | 412 | 11 | US-11-096-568A-12615 | Sequence 12615, A |
| 768 | 28 | 50.9 | 413 | 11 | US-11-188-298-7753 | Sequence 7753, Ap |
| 769 | 28 | 50.9 | 414 | 9 | US-10-506-454-813 | Sequence 813, App |
| 770 | 28 | 50.9 | 416 | 11 | US-11-195-851-18 | Sequence 18, Appl |
| 771 | 28 | 50.9 | 417 | 11 | US-11-108-528-64 | Sequence 64, Appl |
| 772 | 28 | 50.9 | 417 | 11 | US-11-108-528-66 | Sequence 66, Appl |
| 773 | 28 | 50.9 | 417 | 11 | US-11-098-686-11040 | Sequence 11040, A |
| 774 | 28 | 50.9 | 419 | 11 | US-11-230-321-2 | Sequence 2, Appli |
| 775 | 28 | 50.9 | 423 | 11 | US-11-098-686-11064 | Sequence 11064, A |
| 776 | 28 | 50.9 | 425 | 11 | US-11-079-463-6981 | Sequence 6981, Ap |
| 777 | 28 | 50.9 | 427 | 11 | US-11-087-099-12206 | Sequence 12206, A |
| 778 | 28 | 50.9 | 436 | 9 | US-10-506-454-1644 | Sequence 1644, Ap |
| 779 | 28 | 50.9 | 440 | 11 | US-11-087-099-10394 | Sequence 10394, A |
| 780 | 28 | 50.9 | 441 | 11 | US-11-237-600-63 | Sequence 63, Appl |
| 781 | 28 | 50.9 | 445 | 11 | US-11-264-096-1835 | Sequence 1835, Ap |
| 782 | 28 | 50.9 | 451 | 11 | US-11-087-099-10164 | Sequence 10164, A |
| 783 | 28 | 50.9 | 451 | 11 | US-11-096-568A-12614 | Sequence 12614, A |
| 784 | 28 | 50.9 | 453 | 11 | US-11-188-298-4135 | Sequence 4135, Ap |
| 785 | 28 | 50.9 | 455 | 11 | US-11-147-763-26 | Sequence 26, Appl |
| 786 | 28 | 50.9 | 461 | 8 | US-10-511-937-2945 | Sequence 2945, Ap |
| 787 | 28 | 50.9 | 461 | 9 | US-10-523-328-5 | Sequence 5, Appli |
| 788 | 28 | 50.9 | 461 | 10 | US-11-183-218-32 | Sequence 32, Appl |
| 789 | 28 | 50.9 | 461 | 11 | US-11-132-285-6 | Sequence 6, Appli |
| 790 | 28 | 50.9 | 461 | 11 | US-11-182-946-4 | Sequence 4, Appli |
| 791 | 28 | 50.9 | 461 | 11 | US-11-183-205-32 | Sequence 32, Appl |
| 792 | 28 | 50.9 | 461 | 11 | US-11-260-192-2 | Sequence 2, Appli |
| 793 | 28 | 50.9 | 461 | 11 | US-11-079-463-5324 | Sequence 5324, Ap |
| 794 | 28 | 50.9 | 471 | 11 | US-11-098-686-11158 | Sequence 11158, A |
| 795 | 28 | 50.9 | 476 | 9 | US-10-330-773-53 | Sequence 53, Appl |
| 796 | 28 | 50.9 | 505 | 11 | US-11-264-096-808 | Sequence 808, App |
| 797 | 28 | 50.9 | 506 | 11 | US-11-087-099-4103 | Sequence 4103, Ap |
| 798 | 28 | 50.9 | 512 | 11 | US-11-072-512-2978 | Sequence 2978, Ap |
| 799 | 28 | 50.9 | 513 | 9 | US-10-131-826A-192 | Sequence 192, App |
| 800 | 28 | 50.9 | 513 | 9 | US-10-995-561-566 | Sequence 566, App |
| 801 | 28 | 50.9 | 513 | 9 | US-10-973-115B-192 | Sequence 192, App |
| 802 | 28 | 50.9 | 513 | 9 | US-10-137-873A-192 | Sequence 192, App |
| 803 | 28 | 50.9 | 513 | 9 | US-10-152-370-192 | Sequence 192, App |
| 804 | 28 | 50.9 | 513 | 11 | US-11-087-099-6984 | Sequence 6984, Ap |
| 805 | 28 | 50.9 | 513 | 11 | US-11-290-153-192 | Sequence 192, App |
| 806 | 28 | 50.9 | 517 | 11 | US-11-037-243-76 | Sequence 76, Appl |
| 807 | 28 | 50.9 | 523 | 9 | US-10-455-772-198 | Sequence 198, App |
| 808 | 28 | 50.9 | 531 | 11 | US-11-087-099-7252 | Sequence 7252, Ap |
| 809 | 28 | 50.9 | 537 | 11 | US-11-096-568A-12703 | Sequence 12703, A |
| 810 | 28 | 50.9 | 542 | 11 | US-11-075-185-14 | Sequence 14, Appl |
| 811 | 28 | 50.9 | 546 | 11 | US-11-188-298-21426 | Sequence 21426, A |
| 812 | 28 | 50.9 | 583 | 11 | US-11-087-099-7593 | Sequence 7593, Ap |
| 813 | 28 | 50.9 | 591 | 11 | US-11-096-568A-12702 | Sequence 12702, A |
| 814 | 28 | 50.9 | 597 | 11 | US-11-188-298-9219 | Sequence 9219, Ap |
| 815 | 28 | 50.9 | 617 | 11 | US-11-264-096-810 | Sequence 810, App |
| 816 | 28 | 50.9 | 629 | 9 | US-10-467-657-250 | Sequence 250, App |
| 817 | 28 | 50.9 | 629 | 9 | US-10-467-657-3084 | Sequence 3084, Ap |
| 818 | 28 | 50.9 | 629 | 11 | US-11-072-512-3226 | Sequence 3226, Ap |
| 819 | 28 | 50.9 | 632 | 11 | US-11-213-326-4 | Sequence 4, Appli |
| 820 | 28 | 50.9 | 632 | 11 | US-11-249-893-12 | Sequence 12, Appl |
| 821 | 28 | 50.9 | 635 | 11 | US-11-188-298-18018 | Sequence 18018, A |
| 822 | 28 | 50.9 | 646 | 11 | US-11-213-326-6 | Sequence 6, Appli |
| 823 | 28 | 50.9 | 650 | 7 | US-09-995-493-170 | Sequence 170, App |
| 824 | 28 | 50.9 | 655 | 11 | US-11-096-568A-31028 | Sequence 31028, A |

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| 825 | 28 | 50.9 | 658 | 11 | US-11-096-568A-27705 | Sequence 27705, A |
| 826 | 28 | 50.9 | 686 | 11 | US-11-213-326-2 | Sequence 2, Appli |
| 827 | 28 | 50.9 | 686 | 11 | US-11-195-009-7 | Sequence 7, Appli |
| 828 | 28 | 50.9 | 686 | 11 | US-11-249-893-2 | Sequence 2, Appli |
| 829 | 28 | 50.9 | 686 | 11 | US-11-249-893-3 | Sequence 3, Appli |
| 830 | 28 | 50.9 | 686 | 11 | US-11-249-893-4 | Sequence 4, Appli |
| 831 | 28 | 50.9 | 686 | 11 | US-11-249-893-5 | Sequence 5, Appli |
| 832 | 28 | 50.9 | 686 | 11 | US-11-249-893-6 | Sequence 6, Appli |
| 833 | 28 | 50.9 | 686 | 11 | US-11-249-893-7 | Sequence 7, Appli |
| 834 | 28 | 50.9 | 686 | 11 | US-11-249-893-8 | Sequence 8, Appli |
| 835 | 28 | 50.9 | 686 | 11 | US-11-249-893-9 | Sequence 9, Appli |
| 836 | 28 | 50.9 | 686 | 11 | US-11-249-893-10 | Sequence 10, Appl |
| 837 | 28 | 50.9 | 686 | 11 | US-11-249-893-11 | Sequence 11, Appl |
| 838 | 28 | 50.9 | 687 | 11 | US-11-096-568A-27704 | Sequence 27704, A |
| 839 | 28 | 50.9 | 690 | 11 | US-11-079-463-6770 | Sequence 6770, Ap |
| 840 | 28 | 50.9 | 691 | 9 | US-10-131-826A-16 | Sequence 16, Appl |
| 841 | 28 | 50.9 | 691 | 9 | US-10-973-115B-16 | Sequence 16, Appl |
| 842 | 28 | 50.9 | 691 | 9 | US-10-137-873A-16 | Sequence 16, Appl |
| 843 | 28 | 50.9 | 691 | 9 | US-10-152-370-16 | Sequence 16, Appl |
| 844 | 28 | 50.9 | 691 | 11 | US-11-290-153-16 | Sequence 16, Appl |
| 845 | 28 | 50.9 | 699 | 11 | US-11-207-078-188 | Sequence 188, App |
| 846 | 28 | 50.9 | 701 | 11 | US-11-096-568A-27779 | Sequence 27779, A |
| 847 | 28 | 50.9 | 703 | 9 | US-10-821-234-963 | Sequence 963, App |
| 848 | 28 | 50.9 | 719 | 11 | US-11-207-078-219 | Sequence 219, App |
| 849 | 28 | 50.9 | 720 | 9 | US-10-063-703-38 | Sequence 38, Appl |
| 850 | 28 | 50.9 | 720 | 9 | US-10-194-487-170 | Sequence 170, App |
| 851 | 28 | 50.9 | 720 | 9 | US-10-195-883-170 | Sequence 170, App |
| 852 | 28 | 50.9 | 720 | 9 | US-10-195-888-170 | Sequence 170, App |
| 853 | 28 | 50.9 | 720 | 9 | US-10-195-889-170 | Sequence 170, App |
| 854 | 28 | 50.9 | 720 | 11 | US-11-102-240-38 | Sequence 38, Appl |
| 855 | 28 | 50.9 | 720 | 11 | US-11-103-195-38 | Sequence 38, Appl |
| 856 | 28 | 50.9 | 727 | 11 | US-11-096-568A-27703 | Sequence 27703, A |
| 857 | 28 | 50.9 | 728 | 11 | US-11-079-463-8113 | Sequence 8113, Ap |
| 858 | 28 | 50.9 | 730 | 11 | US-11-096-568A-27778 | Sequence 27778, A |
| 859 | 28 | 50.9 | 760 | 9 | US-10-506-454-717 | Sequence 717, App |
| 860 | 28 | 50.9 | 770 | 11 | US-11-096-568A-27777 | Sequence 27777, A |
| 861 | 28 | 50.9 | 808 | 11 | US-11-072-512-2324 | Sequence 2324, Ap |
| 862 | 28 | 50.9 | 837 | 9 | US-10-467-657-1464 | Sequence 1464, Ap |
| 863 | 28 | 50.9 | 838 | 9 | US-10-645-441-9 | Sequence 9, Appli |
| 864 | 28 | 50.9 | 839 | 9 | US-10-725-475-6 | Sequence 6, Appli |
| 865 | 28 | 50.9 | 839 | 11 | US-11-050-804-4 | Sequence 4, Appli |
| 866 | 28 | 50.9 | 844 | 9 | US-10-453-372-852 | Sequence 852, App |
| 867 | 28 | 50.9 | 844 | 9 | US-10-453-372-856 | Sequence 856, App |
| 868 | 28 | 50.9 | 865 | 11 | US-11-087-099-1496 | Sequence 1496, Ap |
| 869 | 28 | 50.9 | 875 | 11 | US-11-096-568A-31027 | Sequence 31027, A |
| 870 | 28 | 50.9 | 913 | 11 | US-11-096-568A-31026 | Sequence 31026, A |
| 871 | 28 | 50.9 | 954 | 11 | US-11-079-463-6804 | Sequence 6804, Ap |
| 872 | 28 | 50.9 | 957 | 11 | US-11-098-686-11422 | Sequence 11422, A |
| 873 | 28 | 50.9 | 961 | 9 | US-10-831-997-4 | Sequence 4, Appli |
| 874 | 28 | 50.9 | 965 | 11 | US-11-079-463-5764 | Sequence 5764, Ap |
| 875 | 28 | 50.9 | 995 | 11 | US-11-045-004-830 | Sequence 830, App |
| 876 | 28 | 50.9 | 1015 | 11 | US-11-203-251A-82 | Sequence 82, Appl |
| 877 | 28 | 50.9 | 1033 | 11 | US-11-079-463-9280 | Sequence 9280, Ap |
| 878 | 28 | 50.9 | 1037 | 11 | US-11-203-251A-81 | Sequence 81, Appl |
| 879 | 28 | 50.9 | 1057 | 11 | US-11-149-003-6 | Sequence 6, Appli |
| 880 | 28 | 50.9 | 1099 | 11 | US-11-213-326-10 | Sequence 10, Appl |
| 881 | 28 | 50.9 | 1192 | 11 | US-11-149-003-18 | Sequence 18, Appl |
| 882 | 28 | 50.9 | 1207 | 11 | US-11-149-003-20 | Sequence 20, Appl |
| 883 | 28 | 50.9 | 1210 | 9 | US-10-624-932-26 | Sequence 26, Appl |
| 884 | 28 | 50.9 | 1213 | 11 | US-11-039-398-14 | Sequence 14, Appl |
| 885 | 28 | 50.9 | 1216 | 11 | US-11-039-398-12 | Sequence 12, Appl |
| 886 | 28 | 50.9 | 1219 | 11 | US-11-039-398-10 | Sequence 10, Appl |
| 887 | 28 | 50.9 | 1222 | 11 | US-11-039-398-8 | Sequence 8, Appli |
| 888 | 28 | 50.9 | 1232 | 11 | US-11-039-398-18 | Sequence 18, Appl |
| 889 | 28 | 50.9 | 1235 | 11 | US-11-039-398-16 | Sequence 16, Appl |
| 890 | 28 | 50.9 | 1249 | 11 | US-11-039-398-22 | Sequence 22, Appl |
| 891 | 28 | 50.9 | 1251 | 11 | US-11-149-003-16 | Sequence 16, Appl |
| 892 | 28 | 50.9 | 1252 | 11 | US-11-039-398-20 | Sequence 20, Appl |
| 893 | 28 | 50.9 | 1275 | 11 | US-11-188-298-12889 | Sequence 12889, A |
| 894 | 28 | 50.9 | 1306 | 11 | US-11-188-298-7550 | Sequence 7550, Ap |
| 895 | 28 | 50.9 | 1342 | 11 | US-11-149-003-24 | Sequence 24, Appl |
| 896 | 28 | 50.9 | 1367 | 11 | US-11-188-298-6142 | Sequence 6142, Ap |
| 897 | 28 | 50.9 | 1401 | 11 | US-11-188-298-13416 | Sequence 13416, A |
| 898 | 28 | 50.9 | 1463 | 11 | US-11-080-991-22 | Sequence 22, Appl |
| 899 | 28 | 50.9 | 1477 | 11 | US-11-149-003-8 | Sequence 8, Appli |
| 900 | 28 | 50.9 | 1512 | 11 | US-11-149-003-10 | Sequence 10, Appl |
| 901 | 28 | 50.9 | 1535 | 11 | US-11-149-003-14 | Sequence 14, Appl |
| 902 | 28 | 50.9 | 1570 | 11 | US-11-149-003-12 | Sequence 12, Appl |
| 903 | 28 | 50.9 | 1593 | 11 | US-11-149-003-4 | Sequence 4, Appli |
| 904 | 28 | 50.9 | 1628 | 11 | US-11-149-003-2 | Sequence 2, Appli |
| 905 | 28 | 50.9 | 1634 | 11 | US-11-019-711-49 | Sequence 49, Appl |
| 906 | 28 | 50.9 | 1640 | 11 | US-11-019-711-8 | Sequence 8, Appli |
| 907 | 28 | 50.9 | 1645 | 8 | US-10-505-928-582 | Sequence 582, App |
| 908 | 28 | 50.9 | 1771 | 11 | US-11-195-009-2 | Sequence 2, Appli |
| 909 | 28 | 50.9 | 1771 | 11 | US-11-195-009-4 | Sequence 4, Appli |
| 910 | 28 | 50.9 | 1771 | 11 | US-11-195-009-9 | Sequence 9, Appli |
| 911 | 28 | 50.9 | 1771 | 11 | US-11-195-009-11 | Sequence 11, Appl |
| 912 | 28 | 50.9 | 1892 | 10 | US-11-131-901-6 | Sequence 6, Appli |
| 913 | 28 | 50.9 | 1892 | 11 | US-11-195-009-13 | Sequence 13, Appl |
| 914 | 28 | 50.9 | 1911 | 11 | US-11-195-009-17 | Sequence 17, Appl |
| 915 | 28 | 50.9 | 1921 | 11 | US-11-195-009-19 | Sequence 19, Appl |
| 916 | 28 | 50.9 | 1944 | 11 | US-11-195-009-15 | Sequence 15, Appl |
| 917 | 28 | 50.9 | 1985 | 11 | US-11-119-330-2 | Sequence 2, Appli |
| 918 | 28 | 50.9 | 1985 | 11 | US-11-173-792-3 | Sequence 3, Appli |
| 919 | 28 | 50.9 | 1985 | 11 | US-11-173-792-15 | Sequence 15, Appl |
| 920 | 28 | 50.9 | 1985 | 11 | US-11-173-792-17 | Sequence 17, Appl |
| 921 | 28 | 50.9 | 2050 | 9 | US-10-453-372-192 | Sequence 192, App |
| 922 | 28 | 50.9 | 2280 | 11 | US-11-022-562-211 | Sequence 211, App |
| 923 | 28 | 50.9 | 3011 | 9 | US-10-985-205-3 | Sequence 3, Appli |
| 924 | 28 | 50.9 | 3568 | 9 | US-10-453-372-194 | Sequence 194, App |
| 925 | 28 | 50.9 | 3570 | 9 | US-10-453-372-178 | Sequence 178, App |
| 926 | 28 | 50.9 | 3570 | 9 | US-10-453-372-196 | Sequence 196, App |
| 927 | 28 | 50.9 | 3570 | 9 | US-10-453-372-198 | Sequence 198, App |
| 928 | 28 | 50.9 | 3570 | 9 | US-10-453-372-200 | Sequence 200, App |
| 929 | 28 | 50.9 | 3570 | 9 | US-10-453-372-202 | Sequence 202, App |
| 930 | 28 | 50.9 | 3570 | 9 | US-10-453-372-204 | Sequence 204, App |
| 931 | 28 | 50.9 | 3570 | 9 | US-10-453-372-206 | Sequence 206, App |
| 932 | 28 | 50.9 | 3597 | 11 | US-11-019-711-6 | Sequence 6, Appli |
| 933 | 28 | 50.9 | 3600 | 11 | US-11-019-711-2 | Sequence 2, Appli |
| 934 | 28 | 50.9 | 5405 | 11 | US-11-108-172-1116 | Sequence 1116, Ap |
| 935 | 28 | 50.9 | 5935 | 9 | US-10-995-561-776 | Sequence 776, App |
| 936 | 27.5 | 50.0 | 121 | 11 | US-11-072-512-2551 | Sequence 2551, Ap |
| 937 | 27.5 | 50.0 | 231 | 11 | US-11-072-512-3821 | Sequence 3821, Ap |
| 938 | 27.5 | 50.0 | 429 | 11 | US-11-072-512-2786 | Sequence 2786, Ap |
| 939 | 27.5 | 50.0 | 530 | 11 | US-11-072-512-3434 | Sequence 3434, Ap |
| 940 | 27.5 | 50.0 | 540 | 11 | US-11-072-512-3748 | Sequence 3748, Ap |
| 941 | 27.5 | 50.0 | 586 | 11 | US-11-072-512-2592 | Sequence 2592, Ap |
| 942 | 27.5 | 50.0 | 590 | 11 | US-11-124-368A-183 | Sequence 183, App |
| 943 | 27.5 | 50.0 | 590 | 11 | US-11-127-877-54 | Sequence 54, Appl |
| 944 | 27.5 | 50.0 | 592 | 11 | US-11-072-512-3366 | Sequence 3366, Ap |
| 945 | 27.5 | 50.0 | 636 | 11 | US-11-072-512-2449 | Sequence 2449, Ap |
| 946 | 27.5 | 50.0 | 735 | 9 | US-10-506-443A-75 | Sequence 75, Appl |
| 947 | 27.5 | 50.0 | 781 | 11 | US-11-072-512-2937 | Sequence 2937, Ap |
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| 949 | 27 | 49.1 | 10 | 11 | US-11-145-861-134 | Sequence 134, App |
| 950 | 27 | 49.1 | 13 | 11 | US-11-116-144-271 | Sequence 271, App |
| 951 | 27 | 49.1 | 13 | 11 | US-11-220-372-271 | Sequence 271, App |
| 952 | 27 | 49.1 | 15 | 9 | US-10-530-061-1687 | Sequence 1687, Ap |
| 953 | 27 | 49.1 | 15 | 9 | US-10-530-061-1698 | Sequence 1698, Ap |
| 954 | 27 | 49.1 | 15 | 9 | US-10-530-061-1710 | Sequence 1710, Ap |
| 955 | 27 | 49.1 | 19 | 9 | US-10-503-575-199 | Sequence 199, App |
| 956 | 27 | 49.1 | 37 | 11 | US-11-264-096-1027 | Sequence 1027, Ap |
| 957 | 27 | 49.1 | 52 | 11 | US-11-242-553-20 | Sequence 20, Appl |
| 958 | 27 | 49.1 | 54 | 11 | US-11-245-400-21 | Sequence 21, Appl |
| 959 | 27 | 49.1 | 54 | 11 | US-11-004-399-2050 | Sequence 2050, Ap |
| 960 | 27 | 49.1 | 58 | 11 | US-11-144-947-708 | Sequence 708, App |
| 961 | 27 | 49.1 | 62 | 11 | US-11-079-463-8055 | Sequence 8055, Ap |
| 962 | 27 | 49.1 | 68 | 8 | US-10-505-928-817 | Sequence 817, App |
| 963 | 27 | 49.1 | 74 | 11 | US-11-174-996A-55 | Sequence 55, Appl |
| 964 | 27 | 49.1 | 74 | 11 | US-11-174-996A-77 | Sequence 77, Appl |
| 965 | 27 | 49.1 | 75 | 11 | US-11-174-996A-73 | Sequence 73, Appl |
| 966 | 27 | 49.1 | 89 | 7 | US-09-978-360A-454 | Sequence 454, App |
| 967 | 27 | 49.1 | 100 | 11 | US-11-087-099-630 | Sequence 630, App |
| 968 | 27 | 49.1 | 118 | 11 | US-11-188-298-19026 | Sequence 19026, A |
| 969 | 27 | 49.1 | 119 | 11 | US-11-175-690-340 | Sequence 340, App |
| 970 | 27 | 49.1 | 119 | 11 | US-11-175-690-341 | Sequence 341, App |

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| 971 | 27 | 49.1 | 126 | 9 | US-10-201-060-10 | Sequence 10, Appl |
| 972 | 27 | 49.1 | 127 | 11 | US-11-172-740-2156 | Sequence 2156, Ap |
| 973 | 27 | 49.1 | 131 | 11 | US-11-072-512-3483 | Sequence 3483, Ap |
| 974 | 27 | 49.1 | 134 | 11 | US-11-079-463-7317 | Sequence 7317, Ap |
| 975 | 27 | 49.1 | 136 | 11 | US-11-264-096-1086 | Sequence 1086, Ap |
| 976 | 27 | 49.1 | 141 | 11 | US-11-045-004-667 | Sequence 667, App |
| 977 | 27 | 49.1 | 141 | 11 | US-11-264-096-1084 | Sequence 1084, Ap |
| 978 | 27 | 49.1 | 142 | 11 | US-11-043-788-392 | Sequence 392, App |
| 979 | 27 | 49.1 | 145 | 11 | US-11-254-675-2 | Sequence 2, Appli |
| 980 | 27 | 49.1 | 149 | 11 | US-11-096-568A-2644 | Sequence 2644, Ap |
| 981 | 27 | 49.1 | 150 | 7 | US-09-978-360A-567 | Sequence 567, App |
| 982 | 27 | 49.1 | 150 | 11 | US-11-098-686-10280 | Sequence 10280, A |
| 983 | 27 | 49.1 | 150 | 11 | US-11-096-568A-22561 | Sequence 22561, A |
| 984 | 27 | 49.1 | 154 | 11 | US-11-172-740-1275 | Sequence 1275, Ap |
| 985 | 27 | 49.1 | 158 | 9 | US-10-467-657-2910 | Sequence 2910, Ap |
| 986 | 27 | 49.1 | 176 | 9 | US-10-201-060-8 | Sequence 8, Appli |
| 987 | 27 | 49.1 | 178 | 11 | US-11-188-298-1624 | Sequence 1624, Ap |
| 988 | 27 | 49.1 | 180 | 9 | US-10-201-060-31 | Sequence 31, Appl |
| 989 | 27 | 49.1 | 181 | 9 | US-10-467-657-6074 | Sequence 6074, Ap |
| 990 | 27 | 49.1 | 181 | 11 | US-11-188-298-2241 | Sequence 2241, Ap |
| 991 | 27 | 49.1 | 192 | 11 | US-11-022-478-17 | Sequence 17, Appl |
| 992 | 27 | 49.1 | 194 | 11 | US-11-087-099-3659 | Sequence 3659, Ap |
| 993 | 27 | 49.1 | 199 | 9 | US-10-201-060-13 | Sequence 13, Appl |
| 994 | 27 | 49.1 | 201 | 9 | US-10-194-487-108 | Sequence 108, App |
| 995 | 27 | 49.1 | 201 | 9 | US-10-195-883-108 | Sequence 108, App |
| 996 | 27 | 49.1 | 201 | 9 | US-10-195-888-108 | Sequence 108, App |
| 997 | 27 | 49.1 | 201 | 9 | US-10-195-889-108 | Sequence 108, App |
| 998 | 27 | 49.1 | 201 | 9 | US-10-216-161A-477 | Sequence 477, App |
| 999 | 27 | 49.1 | 207 | 11 | US-11-096-568A-18269 | Sequence 18269, A |
| 1000 | 27 | 49.1 | 209 | 11 | US-11-087-099-2315 | Sequence 2315, Ap |

ALIGNMENTS

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RESULT 1
US-10-530-061-781
; Sequence 781, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 781
;   LENGTH: 11
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-781

  Query Match             100.0%;  Score 55;  DB 9;  Length 11;
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Qy          1 PYAVCDKCL 9
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Db          1 PYAVCDKCL 9


RESULT 2
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-13

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Db         59 PYAVCDKCL 67


RESULT 3
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
;  APPLICANT: HealthBanks Biotech CO. LTD.
;  TITLE OF INVENTION: Fusion protein for inhibiting cervcal cancer
;  FILE REFERENCE: P7819/0613
;  CURRENT APPLICATION NUMBER: US/11/206,138
;  CURRENT FILING DATE:  2005-08-18
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-11-206-138-3

  Query Match             100.0%;  Score 55;  DB 11;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.011;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
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Db         66 PYAVCDKCL 74


RESULT 4
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
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; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-1

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Best Local Similarity 100.0%; Pred. No. 0.016;
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Qy 1 PYAVCDKCL 9
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Db 59 PYAVCDKCL 67

RESULT 5
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-7

Query Match 100.0%; Score 55; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.016;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
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Db 156 PYAVCDKCL 164

RESULT 6
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANG, XIAOWU
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; TITLE OF INVENTION: RECOMBINANT REPLICON
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; CURRENT FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match 100.0%; Score 55; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.016;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
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Db 164 PYAVCDKCL 172

RESULT 7
US-10-530-061-801
; Sequence 801, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 801
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-801

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Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PYAVCDKC 8
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Db 1 PYAVCDKC 8

RESULT 8
US-10-530-061-604
; Sequence 604, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 604
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-604

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Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 YAVCDKCL 9
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Db 1 YAVCDKCL 8

RESULT 9
US-10-530-061-603
; Sequence 603, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 603
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-603

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Qy 2 YAVCDKCL 9
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Db 1 YVVCDKCL 8

RESULT 10
US-10-530-253-21
; Sequence 21, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 21
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 51
US-10-530-253-21

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Db 59 PYAVCKQCL 67

RESULT 11
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match 78.2%; Score 43; DB 9; Length 248;
Best Local Similarity 88.9%; Pred. No. 1.9;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
|||| ||||
Db 59 PYAVGDKCL 67

RESULT 12
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-5

Query Match 78.2%; Score 43; DB 9; Length 248;
Best Local Similarity 88.9%; Pred. No. 1.9;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
|||| ||||
Db 59 PYAVGDKCL 67

```
RESULT 13
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-9

  Query Match             78.2%;  Score 43;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 1.9;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |||| ||||
Db        156 PYAVGDKCL 164


RESULT 14
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-11

  Query Match             78.2%;  Score 43;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 1.9;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |||| ||||
Db        156 PYAVGDKCL 164


RESULT 15
US-10-530-061-1656
; Sequence 1656, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1656
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-1656

  Query Match             76.4%;  Score 42;  DB 9;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.25;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PYAVCDK 7
              |||||||
Db          9 PYAVCDK 15


RESULT 16
US-10-530-253-18
; Sequence 18, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 35
US-10-530-253-18

  Query Match             76.4%;  Score 42;  DB 9;  Length 149;
  Best Local Similarity   77.8%;  Pred. No. 1.8;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              || || |||
Db         59 PYGVCMKCL 67


RESULT 17
US-10-530-061-502
; Sequence 502, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
```

```
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 502
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-502

  Query Match             74.5%;  Score 41;  DB 9;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.26;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 AVCDKCL 9
              |||||||
Db          1 AVCDKCL 7


RESULT 18
US-11-087-099-9519
; Sequence 9519, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 9519
;   LENGTH: 358
;   TYPE: PRT
;   ORGANISM: Cicer arietinum
US-11-087-099-9519

  Query Match             74.5%;  Score 41;  DB 11;  Length 358;
  Best Local Similarity   75.0%;  Pred. No. 5.9;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKC 8
              || ||| |
Db        262 PYRVCDSC 269


RESULT 19
US-10-530-061-70
; Sequence 70, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 70
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-70

  Query Match             72.7%;  Score 40;  DB 9;  Length 10;
  Best Local Similarity   77.8%;  Pred. No. 0.39;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |||||  ||
Db          1 PYAVCRVCL 9


RESULT 20
US-10-530-061-795
; Sequence 795, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 795
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-795

  Query Match             72.7%;  Score 40;  DB 9;  Length 10;
  Best Local Similarity   77.8%;  Pred. No. 0.39;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |||||  ||
Db          1 PYAVCRVCL 9


RESULT 21
US-10-530-061-788
; Sequence 788, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 788
;   LENGTH: 11
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
```

US-10-530-061-788

Query Match 72.7%; Score 40; DB 9; Length 11;
Best Local Similarity 77.8%; Pred. No. 0.43;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
||||| ||
Db 1 PYAVCRVCL 9

RESULT 22
US-11-079-463-6834
; Sequence 6834, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 6834
; LENGTH: 81
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-6834

Query Match 72.7%; Score 40; DB 11; Length 81;
Best Local Similarity 75.0%; Pred. No. 2.4;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 PYAVCDKC 8
||||| :|
Db 25 PYAVCPQC 32

RESULT 23
US-10-530-253-23
; Sequence 23, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 23
; LENGTH: 155
; TYPE: PRT
; ORGANISM: Human papillomavirus type 56
US-10-530-253-23

Query Match 72.7%; Score 40; DB 9; Length 155;
Best Local Similarity 77.8%; Pred. No. 4.2;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
||||| ||
Db 62 PYAVCRVCL 70

RESULT 24
US-10-530-253-16
; Sequence 16, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 31
US-10-530-253-16

Query Match 70.9%; Score 39; DB 9; Length 149;
Best Local Similarity 66.7%; Pred. No. 6.1;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
|: || |||
Db 59 PHGVCTKCL 67

RESULT 25
US-10-530-253-25
; Sequence 25, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 25
; LENGTH: 160
; TYPE: PRT
; ORGANISM: Human papillomavirus type 59
US-10-530-253-25

Query Match 70.9%; Score 39; DB 9; Length 160;
Best Local Similarity 66.7%; Pred. No. 6.5;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
||| | ||:
Db 61 PYAACLKCI 69

RESULT 26
US-10-506-454-901

```
; Sequence 901, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
;  APPLICANT: Slesarev, Alexi I
;  APPLICANT:  Mezhevaya, Katja V
;  APPLICANT:  Polushin, Nikolai N
;  APPLICANT:  Shcherbinina, Olga V
;  APPLICANT:  Shakhova, Vera V
;  APPLICANT:  Malykh, Andrei G
;  APPLICANT:  Kozyavkin, Sergei A
;  TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
;  TITLE OF INVENTION:  Methanopyrus Kandleri AV19 and Monophyly of Archael Methanogens
;  TITLE OF INVENTION:  and Methods of Use Thereof
;  FILE REFERENCE: FID001
;  CURRENT APPLICATION NUMBER: US/10/506,454
;  CURRENT FILING DATE:  2004-08-31
;  PRIOR APPLICATION NUMBER: PCT/US03/06664
;  PRIOR FILING DATE: 2003-03-04
;  PRIOR APPLICATION NUMBER: 60/361,742
;  PRIOR FILING DATE: 2002-03-04
;  NUMBER OF SEQ ID NOS: 1722
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 901
;   LENGTH: 591
;   TYPE: PRT
;   ORGANISM: Methanopyrus kandleri
US-10-506-454-901

  Query Match             69.1%;  Score 38;  DB 9;  Length 591;
  Best Local Similarity   71.4%;  Pred. No. 30;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 YAVCDKC 8
              |:|||:|
Db        535 YSVCDRC 541


RESULT 27
US-10-530-061-501
; Sequence 501, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 501
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-501

  Query Match             67.3%;  Score 37;  DB 9;  Length 10;
  Best Local Similarity   85.7%;  Pred. No. 1.3;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 AVCDKCL 9
              | |||||
Db          1 ATCDKCL 7


RESULT 28
US-10-530-061-1699
; Sequence 1699, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1699
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-1699

  Query Match             67.3%;  Score 37;  DB 9;  Length 15;
  Best Local Similarity   66.7%;  Pred. No. 1.9;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |:|||  ||
Db          3 PFAVCKVCL 11


RESULT 29
US-10-530-253-24
; Sequence 24, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 24
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 58
US-10-530-253-24

  Query Match             67.3%;  Score 37;  DB 9;  Length 149;
  Best Local Similarity   66.7%;  Pred. No. 14;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |:|||  ||
Db         59 PFAVCKVCL 67


RESULT 30
US-10-530-253-15
; Sequence 15, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
```

```
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 18
US-10-530-253-15

  Query Match             67.3%;  Score 37;  DB 9;  Length 158;
  Best Local Similarity   55.6%;  Pred. No. 14;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              |:| | ||:
Db         61 PHAACHKCI 69


RESULT 31
US-10-530-061-103
; Sequence 103, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 103
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-103

  Query Match             65.5%;  Score 36;  DB 9;  Length 9;
  Best Local Similarity   75.0%;  Pred. No. 1.9e+05;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKC 8
              |||||  |
Db          1 PYAVCRVC 8


RESULT 32
US-10-530-061-838
; Sequence 838, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 838
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-838

  Query Match             65.5%;  Score 36;  DB 9;  Length 9;
  Best Local Similarity   75.0%;  Pred. No. 1.9e+05;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKC 8
              |||||  |
Db          1 PYAVCRVC 8


RESULT 33
US-10-530-061-52
; Sequence 52, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 52
;   LENGTH: 11
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-52

  Query Match             65.5%;  Score 36;  DB 9;  Length 11;
  Best Local Similarity   66.7%;  Pred. No. 2.1;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              || ||  ||
Db          1 PYGVCIMCL 9


RESULT 34
US-10-530-061-787
; Sequence 787, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
```

; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 787
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-787

Query Match 65.5%; Score 36; DB 9; Length 11;
Best Local Similarity 66.7%; Pred. No. 2.1;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
|| || ||
Db 1 PYGVCIMCL 9

RESULT 35
US-10-530-061-1688
; Sequence 1688, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1688
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1688

Query Match 65.5%; Score 36; DB 9; Length 15;
Best Local Similarity 66.7%; Pred. No. 2.8;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
|| || ||
Db 3 PYGVCIMCL 11

RESULT 36
US-10-530-253-22
; Sequence 22, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 22
; LENGTH: 148
; TYPE: PRT
; ORGANISM: Human papillomavirus type 52
US-10-530-253-22

Query Match 65.5%; Score 36; DB 9; Length 148;
Best Local Similarity 66.7%; Pred. No. 20;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 PYAVCDKCL 9
|| || ||
Db 59 PYGVCIMCL 67

RESULT 37
US-11-264-096-2052
; Sequence 2052, Application US/11264096
; Publication No. US20060084794A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF546D1
; CURRENT APPLICATION NUMBER: US/11/264,096
; CURRENT FILING DATE: 2005-11-02
; PRIOR APPLICATION NUMBER: 09/833,245
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229, 358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256, 931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199, 384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2052
; LENGTH: 286
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-264-096-2052

Query Match 65.5%; Score 36; DB 11; Length 286;
Best Local Similarity 71.4%; Pred. No. 36;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AVCDKCL 9
:|||||:
Db 144 SVCDKCI 150

RESULT 38
US-11-264-096-2051
; Sequence 2051, Application US/11264096
; Publication No. US20060084794A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF546D1
; CURRENT APPLICATION NUMBER: US/11/264,096
; CURRENT FILING DATE: 2005-11-02
; PRIOR APPLICATION NUMBER: 09/833,245
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229, 358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256, 931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199, 384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267

```
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2051
;   LENGTH: 298
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-264-096-2051

  Query Match             65.5%;  Score 36;  DB 11;  Length 298;
  Best Local Similarity   71.4%;  Pred. No. 37;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 AVCDKCL 9
              :|||||:
Db        144 SVCDKCI 150


RESULT 39
US-10-506-454-517
; Sequence 517, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
;  APPLICANT: Slesarev, Alexi I
;  APPLICANT:  Mezhevaya, Katja V
;  APPLICANT:  Polushin, Nikolai N
;  APPLICANT:  Shcherbinina, Olga V
;  APPLICANT:  Shakhova, Vera V
;  APPLICANT:  Malykh, Andrei G
;  APPLICANT:  Kozyavkin, Sergei A
;  TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
;  TITLE OF INVENTION:  Methanopyrus Kandleri AV19 and Monophyly of Archael Methanogens
;  TITLE OF INVENTION:  and Methods of Use Thereof
;  FILE REFERENCE: FID001
;  CURRENT APPLICATION NUMBER: US/10/506,454
;  CURRENT FILING DATE:  2004-08-31
;  PRIOR APPLICATION NUMBER: PCT/US03/06664
;  PRIOR FILING DATE: 2003-03-04
;  PRIOR APPLICATION NUMBER: 60/361,742
;  PRIOR FILING DATE: 2002-03-04
;  NUMBER OF SEQ ID NOS: 1722
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 517
;   LENGTH: 354
;   TYPE: PRT
;   ORGANISM: Methanopyrus kandleri
US-10-506-454-517

  Query Match             65.5%;  Score 36;  DB 9;  Length 354;
  Best Local Similarity   50.0%;  Pred. No. 43;
  Matches    4;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 YAVCDKCL 9
              :|:||:|:
Db        133 FALCDRCM 140


RESULT 40
US-10-995-561-827
; Sequence 827, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
;  APPLICANT: CARGILL, Michele et al.
;  TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
;  TITLE OF INVENTION:  CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
;  TITLE OF INVENTION:  DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001559
;  CURRENT APPLICATION NUMBER: US/10/995,561
;  CURRENT FILING DATE:  2004-11-24
;  NUMBER OF SEQ ID NOS: 85702
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 827
;   LENGTH: 2107
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-995-561-827

  Query Match             65.5%;  Score 36;  DB 9;  Length 2107;
  Best Local Similarity   77.8%;  Pred. No. 2e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    2;  Gaps    1;

Qy          1 PYAVCDKCL 9
              ||  |||||
Db        783 PY--CDKCL 789


RESULT 41
US-10-995-561-825
; Sequence 825, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
;  APPLICANT: CARGILL, Michele et al.
;  TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
;  TITLE OF INVENTION:  CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
;  TITLE OF INVENTION:  DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001559
;  CURRENT APPLICATION NUMBER: US/10/995,561
;  CURRENT FILING DATE:  2004-11-24
;  NUMBER OF SEQ ID NOS: 85702
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 825
;   LENGTH: 2480
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-995-561-825

  Query Match             65.5%;  Score 36;  DB 9;  Length 2480;
  Best Local Similarity   77.8%;  Pred. No. 2.3e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    2;  Gaps    1;

Qy          1 PYAVCDKCL 9
              ||  |||||
Db        783 PY--CDKCL 789


RESULT 42
US-10-995-561-826
; Sequence 826, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
;  APPLICANT: CARGILL, Michele et al.
;  TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
;  TITLE OF INVENTION:  CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
;  TITLE OF INVENTION:  DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001559
;  CURRENT APPLICATION NUMBER: US/10/995,561
;  CURRENT FILING DATE:  2004-11-24
;  NUMBER OF SEQ ID NOS: 85702
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 826
;   LENGTH: 3116
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-995-561-826

  Query Match             65.5%;  Score 36;  DB 9;  Length 3116;
  Best Local Similarity   77.8%;  Pred. No. 2.9e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    2;  Gaps    1;

Qy          1 PYAVCDKCL 9
              ||  |||||
Db        783 PY--CDKCL 789


RESULT 43
US-10-530-061-785
; Sequence 785, Application US/10530061
; Publication No. US20060079453A1
```

```
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 785
;   LENGTH: 11
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-785

  Query Match             63.6%;  Score 35;  DB 9;  Length 11;
  Best Local Similarity   62.5%;  Pred. No. 3.2;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 YAVCDKCL 9
              || | ||:
Db          2 YAACHKCI 9


RESULT 44
US-10-530-253-20
; Sequence 20, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 45
US-10-530-253-20

  Query Match             63.6%;  Score 35;  DB 9;  Length 158;
  Best Local Similarity   62.5%;  Pred. No. 32;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 YAVCDKCL 9
              || | ||:
Db         62 YAACHKCI 69


RESULT 45
US-10-993-143-10
; Sequence 10, Application US/10993143
; Publication No. US20060036374A1
; GENERAL INFORMATION:
;  APPLICANT: California Institute of Technology
;  APPLICANT:  Debe, Derek A.
;  APPLICANT:  Goddard III, William A.
;  TITLE OF INVENTION: METHOD FOR DETERMINING THREE-DIMENSIONAL PROTEIN STRUCTURE FROM
;  TITLE OF INVENTION:  PRIMARY PROTEIN SEQUENCE
;  FILE REFERENCE: 54318.8001.US02
;  CURRENT APPLICATION NUMBER: US/10/993,143
;  CURRENT FILING DATE:  2004-11-18
;  PRIOR APPLICATION NUMBER: 60/218,016
;  PRIOR FILING DATE: 2000-07-12
;  PRIOR APPLICATION NUMBER: 09/905,176
;  PRIOR FILING DATE: 2001-07-12
;  NUMBER OF SEQ ID NOS: 26
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
;   LENGTH: 328
;   TYPE: PRT
;   ORGANISM: Saccharomyces cerevisiae
US-10-993-143-10

  Query Match             63.6%;  Score 35;  DB 9;  Length 328;
  Best Local Similarity   62.5%;  Pred. No. 60;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 YAVCDKCL 9
              | :|| ||
Db        115 YIICDVCL 122


RESULT 46
US-11-087-099-9160
; Sequence 9160, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 9160
;   LENGTH: 338
;   TYPE: PRT
;   ORGANISM: Mesorhizobium loti
US-11-087-099-9160

  Query Match             63.6%;  Score 35;  DB 11;  Length 338;
  Best Local Similarity   55.6%;  Pred. No. 62;
  Matches    5;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKCL 9
              ||  | ||:
Db         85 PYLSCGKCI 93


RESULT 47
US-11-087-099-576
; Sequence 576, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 576
;   LENGTH: 426
;   TYPE: PRT
;   ORGANISM: Rhodopseudomonas palustris
US-11-087-099-576

  Query Match             63.6%;  Score 35;  DB 11;  Length 426;
  Best Local Similarity   62.5%;  Pred. No. 76;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;
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Qy          1 PYAVCDKC 8
              || :|| |
Db        163 PYWLCDAC 170


RESULT 48
US-11-087-099-7799
; Sequence 7799, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 7799
;   LENGTH: 441
;   TYPE: PRT
;   ORGANISM: Desulfitobacterium hafniense
US-11-087-099-7799

  Query Match             63.6%;  Score 35;  DB 11;  Length 441;
  Best Local Similarity   50.0%;  Pred. No. 78;
  Matches    4;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 PYAVCDKC 8
              |:| |::|
Db        394 PFAACEQC 401


RESULT 49
US-11-096-568A-27572
; Sequence 27572, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 27572
;   LENGTH: 559
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(559)
;   OTHER INFORMATION: Ceres Seq. ID no. 1820946
US-11-096-568A-27572

  Query Match             63.6%;  Score 35;  DB 11;  Length 559;
  Best Local Similarity   100.0%;  Pred. No. 96;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 YAVCDK 7
              ||||||
Db         81 YAVCDK 86


RESULT 50
US-10-530-253-26
; Sequence 26, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
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;  NUMBER OF SEQ ID NOS: 65
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;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 68
US-10-530-253-26

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| 234 | 31 | 63.3 | 500 | 2 | US-09-830-751-4 | Sequence 4, Appli |
| 235 | 31 | 63.3 | 517 | 2 | US-09-538-092-851 | Sequence 851, App |
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| 237 | 31 | 63.3 | 586 | 2 | US-09-270-767-44444 | Sequence 44444, A |
| 238 | 31 | 63.3 | 636 | 2 | US-09-540-236-3765 | Sequence 3765, Ap |
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| 242 | 31 | 63.3 | 821 | 1 | US-08-261-432-2 | Sequence 2, Appli |
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| 244 | 31 | 63.3 | 829 | 2 | US-09-248-796A-19017 | Sequence 19017, A |
| 245 | 31 | 63.3 | 918 | 2 | US-09-809-920-2 | Sequence 2, Appli |
| 246 | 31 | 63.3 | 919 | 2 | US-09-809-920-4 | Sequence 4, Appli |

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| 247 | 31 | 63.3 | 1587 | 2 | US-09-000-094-46 | Sequence 46, Appl |
| 248 | 31 | 63.3 | 1587 | 2 | US-10-011-749-46 | Sequence 46, Appl |
| 249 | 31 | 63.3 | 1642 | 1 | US-08-447-411-45 | Sequence 45, Appl |
| 250 | 31 | 63.3 | 1642 | 1 | US-08-662-227-2 | Sequence 2, Appli |
| 251 | 31 | 63.3 | 1642 | 2 | US-09-017-947-2 | Sequence 2, Appli |
| 252 | 31 | 63.3 | 1642 | 2 | US-09-925-442-2 | Sequence 2, Appli |
| 253 | 31 | 63.3 | 1648 | 1 | US-08-662-227-35 | Sequence 35, Appl |
| 254 | 31 | 63.3 | 1648 | 2 | US-09-017-947-35 | Sequence 35, Appl |
| 255 | 31 | 63.3 | 1648 | 2 | US-09-925-442-35 | Sequence 35, Appl |
| 256 | 30 | 61.2 | 35 | 1 | US-08-874-347-8 | Sequence 8, Appli |
| 257 | 30 | 61.2 | 35 | 2 | US-09-093-522-8 | Sequence 8, Appli |
| 258 | 30 | 61.2 | 58 | 2 | US-09-461-697-173 | Sequence 173, App |
| 259 | 30 | 61.2 | 75 | 2 | US-09-248-796A-21824 | Sequence 21824, A |
| 260 | 30 | 61.2 | 89 | 2 | US-09-248-796A-26922 | Sequence 26922, A |
| 261 | 30 | 61.2 | 101 | 2 | US-09-248-796A-20700 | Sequence 20700, A |
| 262 | 30 | 61.2 | 112 | 2 | US-09-107-532A-5021 | Sequence 5021, Ap |
| 263 | 30 | 61.2 | 116 | 2 | US-09-134-000C-6570 | Sequence 6570, Ap |
| 264 | 30 | 61.2 | 119 | 1 | US-08-340-539A-19 | Sequence 19, Appl |
| 265 | 30 | 61.2 | 163 | 2 | US-09-438-185A-48 | Sequence 48, Appl |
| 266 | 30 | 61.2 | 184 | 2 | US-09-893-737-168 | Sequence 168, App |
| 267 | 30 | 61.2 | 245 | 2 | US-09-270-767-33254 | Sequence 33254, A |
| 268 | 30 | 61.2 | 245 | 2 | US-09-270-767-48471 | Sequence 48471, A |
| 269 | 30 | 61.2 | 288 | 2 | US-09-949-016-11675 | Sequence 11675, A |
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| 272 | 30 | 61.2 | 339 | 2 | US-09-198-452A-1013 | Sequence 1013, Ap |
| 273 | 30 | 61.2 | 350 | 2 | US-08-637-670-39 | Sequence 39, Appl |
| 274 | 30 | 61.2 | 436 | 2 | US-09-198-452A-711 | Sequence 711, App |
| 275 | 30 | 61.2 | 442 | 2 | US-09-438-185A-674 | Sequence 674, App |
| 276 | 30 | 61.2 | 464 | 2 | US-09-543-681A-8192 | Sequence 8192, Ap |
| 277 | 30 | 61.2 | 469 | 2 | US-09-270-767-36105 | Sequence 36105, A |
| 278 | 30 | 61.2 | 469 | 2 | US-09-270-767-51322 | Sequence 51322, A |
| 279 | 30 | 61.2 | 522 | 2 | US-09-949-016-7190 | Sequence 7190, Ap |
| 280 | 30 | 61.2 | 526 | 2 | US-09-198-452A-67 | Sequence 67, Appl |
| 281 | 30 | 61.2 | 579 | 2 | US-09-173-151A-2 | Sequence 2, Appli |
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| 283 | 30 | 61.2 | 781 | 2 | US-10-104-047-2937 | Sequence 2937, Ap |
| 284 | 30 | 61.2 | 829 | 2 | US-09-438-185A-943 | Sequence 943, App |
| 285 | 30 | 61.2 | 972 | 2 | US-08-335-844A-24 | Sequence 24, Appl |
| 286 | 30 | 61.2 | 972 | 2 | US-09-129-366-24 | Sequence 24, Appl |
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| 291 | 29 | 59.2 | 16 | 1 | US-08-469-569-17 | Sequence 17, Appl |
| 292 | 29 | 59.2 | 16 | 1 | US-08-469-569-127 | Sequence 127, App |
| 293 | 29 | 59.2 | 16 | 1 | US-08-249-322A-17 | Sequence 17, Appl |
| 294 | 29 | 59.2 | 16 | 1 | US-08-249-322A-127 | Sequence 127, App |
| 295 | 29 | 59.2 | 16 | 1 | US-08-469-526A-17 | Sequence 17, Appl |
| 296 | 29 | 59.2 | 16 | 1 | US-08-469-526A-127 | Sequence 127, App |
| 297 | 29 | 59.2 | 16 | 1 | US-08-734-591A-17 | Sequence 17, Appl |
| 298 | 29 | 59.2 | 16 | 1 | US-08-734-591A-127 | Sequence 127, App |
| 299 | 29 | 59.2 | 16 | 1 | US-08-469-660-17 | Sequence 17, Appl |
| 300 | 29 | 59.2 | 16 | 1 | US-08-469-660-127 | Sequence 127, App |
| 301 | 29 | 59.2 | 16 | 2 | US-08-470-335-17 | Sequence 17, Appl |
| 302 | 29 | 59.2 | 16 | 2 | US-08-470-335-127 | Sequence 127, App |
| 303 | 29 | 59.2 | 16 | 2 | US-08-735-021-17 | Sequence 17, Appl |
| 304 | 29 | 59.2 | 16 | 2 | US-08-735-021-127 | Sequence 127, App |
| 305 | 29 | 59.2 | 16 | 2 | US-08-734-664A-17 | Sequence 17, Appl |
| 306 | 29 | 59.2 | 16 | 2 | US-08-734-664A-127 | Sequence 127, App |
| 307 | 29 | 59.2 | 16 | 2 | US-09-323-433A-23 | Sequence 23, Appl |
| 308 | 29 | 59.2 | 16 | 2 | US-08-470-339-17 | Sequence 17, Appl |
| 309 | 29 | 59.2 | 16 | 2 | US-08-470-339-127 | Sequence 127, App |
| 310 | 29 | 59.2 | 16 | 2 | US-08-467-602-17 | Sequence 17, Appl |
| 311 | 29 | 59.2 | 16 | 2 | US-08-467-602-127 | Sequence 127, App |
| 312 | 29 | 59.2 | 16 | 2 | US-09-826-752-23 | Sequence 23, Appl |
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| 314 | 29 | 59.2 | 16 | 4 | PCT-US94-05083C-123 | Sequence 123, App |
| 315 | 29 | 59.2 | 16 | 4 | PCT-US95-06846A-17 | Sequence 17, Appl |
| 316 | 29 | 59.2 | 16 | 4 | PCT-US95-06846A-127 | Sequence 127, App |
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| 319 | 29 | 59.2 | 49 | 2 | US-09-270-767-59292 | Sequence 59292, A |
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| 321 | 29 | 59.2 | 55 | 2 | US-09-621-976-7030 | Sequence 7030, Ap |
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| 323 | 29 | 59.2 | 57 | 2 | US-09-270-767-49985 | Sequence 49985, A |
| 324 | 29 | 59.2 | 74 | 2 | US-09-270-767-57175 | Sequence 57175, A |
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| 328 | 29 | 59.2 | 120 | 2 | US-09-270-767-47412 | Sequence 47412, A |
| 329 | 29 | 59.2 | 123 | 2 | US-09-270-767-36457 | Sequence 36457, A |
| 330 | 29 | 59.2 | 123 | 2 | US-09-270-767-51674 | Sequence 51674, A |
| 331 | 29 | 59.2 | 124 | 2 | US-09-851-873-2 | Sequence 2, Appli |
| 332 | 29 | 59.2 | 124 | 2 | US-09-851-873-6 | Sequence 6, Appli |
| 333 | 29 | 59.2 | 147 | 2 | US-09-248-796A-27445 | Sequence 27445, A |
| 334 | 29 | 59.2 | 165 | 2 | US-09-706-722A-3 | Sequence 3, Appli |
| 335 | 29 | 59.2 | 165 | 2 | US-09-270-767-38845 | Sequence 38845, A |
| 336 | 29 | 59.2 | 165 | 2 | US-09-270-767-54062 | Sequence 54062, A |
| 337 | 29 | 59.2 | 166 | 2 | US-09-851-873-69 | Sequence 69, Appl |
| 338 | 29 | 59.2 | 167 | 2 | US-09-198-452A-65 | Sequence 65, Appl |
| 339 | 29 | 59.2 | 167 | 2 | US-09-438-185A-46 | Sequence 46, Appl |
| 340 | 29 | 59.2 | 177 | 2 | US-09-851-873-41 | Sequence 41, Appl |
| 341 | 29 | 59.2 | 184 | 1 | US-08-464-339A-2 | Sequence 2, Appli |
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| 343 | 29 | 59.2 | 184 | 2 | US-09-706-722A-2 | Sequence 2, Appli |
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| 348 | 29 | 59.2 | 193 | 2 | US-09-273-565-4 | Sequence 4, Appli |
| 349 | 29 | 59.2 | 193 | 2 | US-09-565-538-4 | Sequence 4, Appli |
| 350 | 29 | 59.2 | 193 | 2 | US-09-661-468-4 | Sequence 4, Appli |
| 351 | 29 | 59.2 | 193 | 2 | US-09-976-165-4 | Sequence 4, Appli |
| 352 | 29 | 59.2 | 201 | 1 | US-07-929-580B-3 | Sequence 3, Appli |
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| 356 | 29 | 59.2 | 209 | 2 | US-09-270-767-44815 | Sequence 44815, A |
| 357 | 29 | 59.2 | 224 | 2 | US-09-851-873-57 | Sequence 57, Appl |
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| 359 | 29 | 59.2 | 225 | 1 | US-07-714-386-1 | Sequence 1, Appli |
| 360 | 29 | 59.2 | 225 | 1 | US-07-708-888A-1 | Sequence 1, Appli |
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| 363 | 29 | 59.2 | 248 | 2 | US-09-949-016-10524 | Sequence 10524, A |
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| 366 | 29 | 59.2 | 252 | 1 | US-08-125-077-9 | Sequence 9, Appli |
| 367 | 29 | 59.2 | 255 | 2 | US-09-152-060-96 | Sequence 96, Appl |
| 368 | 29 | 59.2 | 255 | 2 | US-09-852-797-96 | Sequence 96, Appl |
| 369 | 29 | 59.2 | 255 | 2 | US-09-853-161-96 | Sequence 96, Appl |
| 370 | 29 | 59.2 | 255 | 2 | US-10-058-993-96 | Sequence 96, Appl |
| 371 | 29 | 59.2 | 258 | 2 | US-09-248-796A-16533 | Sequence 16533, A |
| 372 | 29 | 59.2 | 258 | 2 | US-09-949-016-7845 | Sequence 7845, Ap |
| 373 | 29 | 59.2 | 261 | 2 | US-09-851-873-55 | Sequence 55, Appl |
| 374 | 29 | 59.2 | 277 | 2 | US-09-851-873-8 | Sequence 8, Appli |
| 375 | 29 | 59.2 | 287 | 2 | US-09-869-677B-2 | Sequence 2, Appli |
| 376 | 29 | 59.2 | 293 | 2 | US-09-071-035-496 | Sequence 496, App |
| 377 | 29 | 59.2 | 293 | 2 | US-10-206-576-496 | Sequence 496, App |
| 378 | 29 | 59.2 | 303 | 2 | US-09-851-873-53 | Sequence 53, Appl |
| 379 | 29 | 59.2 | 310 | 1 | US-07-791-377-2 | Sequence 2, Appli |
| 380 | 29 | 59.2 | 310 | 2 | US-08-356-106-2 | Sequence 2, Appli |
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| 382 | 29 | 59.2 | 316 | 2 | US-09-071-035-494 | Sequence 494, App |
| 383 | 29 | 59.2 | 316 | 2 | US-10-206-576-494 | Sequence 494, App |
| 384 | 29 | 59.2 | 333 | 2 | US-09-107-532A-4544 | Sequence 4544, Ap |
| 385 | 29 | 59.2 | 340 | 2 | US-09-851-873-51 | Sequence 51, Appl |
| 386 | 29 | 59.2 | 341 | 2 | US-09-851-873-4 | Sequence 4, Appli |
| 387 | 29 | 59.2 | 346 | 2 | US-08-637-670-24 | Sequence 24, Appl |
| 388 | 29 | 59.2 | 357 | 2 | US-09-248-796A-21215 | Sequence 21215, A |
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| 399 | 29 | 59.2 | 446 | 2 | US-09-657-474-51 | Sequence 51, Appl |
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| 411 | 29 | 59.2 | 514 | 2 | US-10-183-770A-14 | Sequence 14, Appl |
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| 422 | 29 | 59.2 | 628 | 2 | US-09-513-597A-20 | Sequence 20, Appl |
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| 424 | 29 | 59.2 | 641 | 2 | US-09-543-681A-4359 | Sequence 4359, Ap |
| 425 | 29 | 59.2 | 659 | 2 | US-09-949-016-7616 | Sequence 7616, Ap |
| 426 | 29 | 59.2 | 659 | 2 | US-09-949-016-7617 | Sequence 7617, Ap |
| 427 | 29 | 59.2 | 662 | 1 | US-09-016-000-5 | Sequence 5, Appli |
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| 433 | 29 | 59.2 | 724 | 2 | US-09-307-143-6 | Sequence 6, Appli |
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| 435 | 29 | 59.2 | 730 | 2 | US-09-710-714-2 | Sequence 2, Appli |
| 436 | 29 | 59.2 | 756 | 2 | US-09-949-016-7042 | Sequence 7042, Ap |
| 437 | 29 | 59.2 | 775 | 2 | US-10-043-774B-2 | Sequence 2, Appli |
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| 442 | 29 | 59.2 | 834 | 2 | US-09-826-752-4 | Sequence 4, Appli |
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| 445 | 29 | 59.2 | 901 | 2 | US-09-258-643-5 | Sequence 5, Appli |
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| 448 | 29 | 59.2 | 952 | 2 | US-09-949-016-7284 | Sequence 7284, Ap |
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| 455 | 29 | 59.2 | 2368 | 1 | US-08-870-693-15 | Sequence 15, Appl |
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| 457 | 29 | 59.2 | 3433 | 2 | US-09-538-092-1136 | Sequence 1136, Ap |
| 458 | 28 | 57.1 | 10 | 2 | US-09-819-308-25 | Sequence 25, Appl |
| 459 | 28 | 57.1 | 22 | 2 | US-10-612-818-5 | Sequence 5, Appli |
| 460 | 28 | 57.1 | 28 | 2 | US-10-020-695-4 | Sequence 4, Appli |
| 461 | 28 | 57.1 | 40 | 2 | US-09-270-767-61184 | Sequence 61184, A |
| 462 | 28 | 57.1 | 52 | 2 | US-09-621-976-6386 | Sequence 6386, Ap |
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| 464 | 28 | 57.1 | 54 | 2 | US-09-270-767-54962 | Sequence 54962, A |
| 465 | 28 | 57.1 | 66 | 2 | US-09-270-767-41370 | Sequence 41370, A |
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| 469 | 28 | 57.1 | 75 | 2 | US-09-489-039A-7579 | Sequence 7579, Ap |
| 470 | 28 | 57.1 | 81 | 2 | US-09-621-976-5143 | Sequence 5143, Ap |
| 471 | 28 | 57.1 | 87 | 2 | US-09-270-767-34093 | Sequence 34093, A |
| 472 | 28 | 57.1 | 87 | 2 | US-09-270-767-39921 | Sequence 39921, A |
| 473 | 28 | 57.1 | 87 | 2 | US-09-270-767-49310 | Sequence 49310, A |
| 474 | 28 | 57.1 | 87 | 2 | US-09-270-767-55138 | Sequence 55138, A |
| 475 | 28 | 57.1 | 100 | 2 | US-09-513-999C-4593 | Sequence 4593, Ap |
| 476 | 28 | 57.1 | 108 | 2 | US-09-134-001C-4556 | Sequence 4556, Ap |
| 477 | 28 | 57.1 | 117 | 2 | US-09-248-796A-21324 | Sequence 21324, A |
| 478 | 28 | 57.1 | 119 | 2 | US-09-107-433-3758 | Sequence 3758, Ap |
| 479 | 28 | 57.1 | 123 | 2 | US-09-438-185A-168 | Sequence 168, App |
| 480 | 28 | 57.1 | 126 | 2 | US-09-819-308-2 | Sequence 2, Appli |
| 481 | 28 | 57.1 | 129 | 2 | US-09-583-110-4573 | Sequence 4573, Ap |
| 482 | 28 | 57.1 | 137 | 2 | US-09-248-796A-14955 | Sequence 14955, A |
| 483 | 28 | 57.1 | 157 | 2 | US-09-270-767-40706 | Sequence 40706, A |
| 484 | 28 | 57.1 | 157 | 2 | US-09-270-767-55922 | Sequence 55922, A |
| 485 | 28 | 57.1 | 160 | 2 | US-09-215-221-23 | Sequence 23, Appl |
| 486 | 28 | 57.1 | 168 | 2 | US-09-925-637-68 | Sequence 68, Appl |
| 487 | 28 | 57.1 | 169 | 2 | US-09-107-433-4564 | Sequence 4564, Ap |
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| 491 | 28 | 57.1 | 208 | 2 | US-09-270-767-55483 | Sequence 55483, A |
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| 508 | 28 | 57.1 | 295 | 2 | US-09-650-324A-51 | Sequence 51, Appl |
| 509 | 28 | 57.1 | 295 | 2 | US-10-039-112A-51 | Sequence 51, Appl |
| 510 | 28 | 57.1 | 312 | 2 | US-09-248-796A-15829 | Sequence 15829, A |
| 511 | 28 | 57.1 | 332 | 2 | US-09-659-519-4 | Sequence 4, Appli |
| 512 | 28 | 57.1 | 335 | 2 | US-09-215-221-26 | Sequence 26, Appl |
| 513 | 28 | 57.1 | 345 | 2 | US-09-173-581-6 | Sequence 6, Appli |
| 514 | 28 | 57.1 | 345 | 2 | US-09-420-915-6 | Sequence 6, Appli |
| 515 | 28 | 57.1 | 360 | 2 | US-09-270-767-42265 | Sequence 42265, A |
| 516 | 28 | 57.1 | 362 | 2 | US-09-583-110-4099 | Sequence 4099, Ap |
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| 526 | 28 | 57.1 | 397 | 2 | US-09-248-796A-20377 | Sequence 20377, A |
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| 530 | 28 | 57.1 | 422 | 2 | US-09-248-796A-23935 | Sequence 23935, A |
| 531 | 28 | 57.1 | 430 | 2 | US-09-248-796A-19492 | Sequence 19492, A |
| 532 | 28 | 57.1 | 451 | 2 | US-09-538-092-784 | Sequence 784, App |
| 533 | 28 | 57.1 | 462 | 2 | US-09-248-796A-18065 | Sequence 18065, A |
| 534 | 28 | 57.1 | 466 | 2 | US-09-215-221-24 | Sequence 24, Appl |
| 535 | 28 | 57.1 | 478 | 2 | US-09-198-452A-776 | Sequence 776, App |
| 536 | 28 | 57.1 | 492 | 2 | US-09-487-558B-192 | Sequence 192, App |
| 537 | 28 | 57.1 | 514 | 2 | US-09-270-767-58737 | Sequence 58737, A |
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| 556 | 28 | 57.1 | 782 | 2 | US-09-903-012B-46 | Sequence 46, Appl |
| 557 | 28 | 57.1 | 782 | 2 | US-09-900-797-46 | Sequence 46, Appl |
| 558 | 28 | 57.1 | 782 | 2 | US-09-893-820-46 | Sequence 46, Appl |
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| 564 | 28 | 57.1 | 817 | 2 | US-09-234-393-42 | Sequence 42, Appl |
| 565 | 28 | 57.1 | 817 | 2 | US-09-865-171-13 | Sequence 13, Appl |
| 566 | 28 | 57.1 | 817 | 2 | US-09-865-171-38 | Sequence 38, Appl |
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| 568 | 28 | 57.1 | 817 | 2 | US-09-865-171-42 | Sequence 42, Appl |
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| 586 | 28 | 57.1 | 1739 | 2 | US-09-538-092-824 | Sequence 824, App |
| 587 | 28 | 57.1 | 1740 | 2 | US-09-949-016-8860 | Sequence 8860, Ap |
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| 736 | 27 | 55.1 | 319 | 2 | US-09-130-749-2 | Sequence 2, Appli |
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| 738 | 27 | 55.1 | 319 | 2 | US-09-170-496D-196 | Sequence 196, App |
| 739 | 27 | 55.1 | 334 | 2 | US-09-582-441-1 | Sequence 1, Appli |
| 740 | 27 | 55.1 | 334 | 2 | US-09-949-016-6780 | Sequence 6780, Ap |
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| 742 | 27 | 55.1 | 338 | 2 | US-09-633-145-2 | Sequence 2, Appli |
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| 744 | 27 | 55.1 | 348 | 1 | US-08-229-781-50 | Sequence 50, Appl |
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| 746 | 27 | 55.1 | 348 | 2 | US-09-004-422-50 | Sequence 50, Appl |
| 747 | 27 | 55.1 | 348 | 2 | US-09-918-568-50 | Sequence 50, Appl |
| 748 | 27 | 55.1 | 352 | 2 | US-09-949-016-11093 | Sequence 11093, A |
| 749 | 27 | 55.1 | 353 | 2 | US-09-982-616-2 | Sequence 2, Appli |
| 750 | 27 | 55.1 | 356 | 1 | US-08-700-607-6 | Sequence 6, Appli |
| 751 | 27 | 55.1 | 358 | 2 | US-09-198-452A-1070 | Sequence 1070, Ap |
| 752 | 27 | 55.1 | 358 | 2 | US-09-438-185A-997 | Sequence 997, App |
| 753 | 27 | 55.1 | 359 | 2 | US-09-668-097A-28 | Sequence 28, Appl |
| 754 | 27 | 55.1 | 360 | 2 | US-09-596-248D-19 | Sequence 19, Appl |
| 755 | 27 | 55.1 | 363 | 2 | US-09-498-520A-36 | Sequence 36, Appl |
| 756 | 27 | 55.1 | 364 | 2 | US-09-949-016-6072 | Sequence 6072, Ap |
| 757 | 27 | 55.1 | 375 | 2 | US-09-248-796A-18358 | Sequence 18358, A |
| 758 | 27 | 55.1 | 376 | 1 | US-08-464-148-4 | Sequence 4, Appli |
| 759 | 27 | 55.1 | 376 | 1 | US-08-385-500-4 | Sequence 4, Appli |
| 760 | 27 | 55.1 | 376 | 1 | US-08-846-784-4 | Sequence 4, Appli |
| 761 | 27 | 55.1 | 376 | 2 | US-09-538-092-307 | Sequence 307, App |
| 762 | 27 | 55.1 | 378 | 2 | US-09-328-352-4771 | Sequence 4771, Ap |
| 763 | 27 | 55.1 | 378 | 2 | US-09-668-097A-4 | Sequence 4, Appli |
| 764 | 27 | 55.1 | 378 | 2 | US-09-668-097A-22 | Sequence 22, Appl |
| 765 | 27 | 55.1 | 380 | 4 | PCT-US91-02560-4 | Sequence 4, Appli |
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| 769 | 27 | 55.1 | 394 | 2 | US-10-270-878-38 | Sequence 38, Appl |
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| 774 | 27 | 55.1 | 427 | 2 | US-09-248-796A-19520 | Sequence 19520, A |
| 775 | 27 | 55.1 | 432 | 2 | US-09-270-767-40792 | Sequence 40792, A |
| 776 | 27 | 55.1 | 432 | 2 | US-09-270-767-56008 | Sequence 56008, A |
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| 778 | 27 | 55.1 | 438 | 2 | US-08-915-498B-37 | Sequence 37, Appl |
| 779 | 27 | 55.1 | 439 | 2 | US-09-949-016-9180 | Sequence 9180, Ap |
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| 781 | 27 | 55.1 | 448 | 2 | US-09-272-796-2 | Sequence 2, Appli |
| 782 | 27 | 55.1 | 450 | 2 | US-09-270-767-43379 | Sequence 43379, A |
| 783 | 27 | 55.1 | 451 | 2 | US-09-538-092-706 | Sequence 706, App |
| 784 | 27 | 55.1 | 454 | 2 | US-09-830-230A-385 | Sequence 385, App |
| 785 | 27 | 55.1 | 463 | 2 | US-09-248-796A-17793 | Sequence 17793, A |
| 786 | 27 | 55.1 | 465 | 2 | US-09-268-992-49 | Sequence 49, Appl |
| 787 | 27 | 55.1 | 465 | 2 | US-09-657-474-49 | Sequence 49, Appl |
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| 790 | 27 | 55.1 | 479 | 2 | US-09-270-767-55928 | Sequence 55928, A |
| 791 | 27 | 55.1 | 484 | 2 | US-10-104-047-3381 | Sequence 3381, Ap |
| 792 | 27 | 55.1 | 485 | 2 | US-09-134-000C-6295 | Sequence 6295, Ap |
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| 794 | 27 | 55.1 | 497 | 2 | US-10-238-709-2 | Sequence 2, Appli |
| 795 | 27 | 55.1 | 497 | 2 | US-09-248-796A-17878 | Sequence 17878, A |
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| 800 | 27 | 55.1 | 503 | 2 | US-08-369-822C-8 | Sequence 8, Appli |
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| 802 | 27 | 55.1 | 503 | 2 | US-08-779-764A-27 | Sequence 27, Appl |
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| 804 | 27 | 55.1 | 503 | 2 | US-08-434-831B-8 | Sequence 8, Appli |
| 805 | 27 | 55.1 | 503 | 2 | US-09-563-456-26 | Sequence 26, Appl |
| 806 | 27 | 55.1 | 503 | 2 | US-09-563-456-27 | Sequence 27, Appl |
| 807 | 27 | 55.1 | 508 | 2 | US-09-344-700-4 | Sequence 4, Appli |
| 808 | 27 | 55.1 | 508 | 2 | US-09-563-997A-4 | Sequence 4, Appli |
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| 810 | 27 | 55.1 | 518 | 2 | US-10-164-595-67 | Sequence 67, Appl |
| 811 | 27 | 55.1 | 535 | 2 | US-08-286-870A-6 | Sequence 6, Appli |
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| 813 | 27 | 55.1 | 554 | 2 | US-09-438-185A-924 | Sequence 924, App |
| 814 | 27 | 55.1 | 559 | 2 | US-09-596-248D-23 | Sequence 23, Appl |
| 815 | 27 | 55.1 | 566 | 2 | US-09-232-468A-14 | Sequence 14, Appl |
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| 818 | 27 | 55.1 | 569 | 2 | US-08-686-968C-227 | Sequence 227, App |
| 819 | 27 | 55.1 | 570 | 2 | US-10-104-047-2718 | Sequence 2718, Ap |
| 820 | 27 | 55.1 | 572 | 1 | US-08-453-848-9 | Sequence 9, Appli |
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| 826 | 27 | 55.1 | 591 | 2 | US-09-771-045B-46 | Sequence 46, Appl |
| 827 | 27 | 55.1 | 591 | 2 | US-09-658-835C-46 | Sequence 46, Appl |
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| 829 | 27 | 55.1 | 609 | 2 | US-09-538-092-711 | Sequence 711, App |
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| 831 | 27 | 55.1 | 610 | 2 | US-09-270-767-42755 | Sequence 42755, A |
| 832 | 27 | 55.1 | 615 | 1 | US-08-272-255-7 | Sequence 7, Appli |
| 833 | 27 | 55.1 | 615 | 4 | PCT-US95-08565-7 | Sequence 7, Appli |
| 834 | 27 | 55.1 | 619 | 2 | US-09-596-248D-59 | Sequence 59, Appl |
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| 837 | 27 | 55.1 | 648 | 2 | US-10-338-898-2 | Sequence 2, Appli |
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| 844 | 27 | 55.1 | 656 | 2 | US-09-639-206A-6 | Sequence 6, Appli |
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| 851 | 27 | 55.1 | 719 | 2 | US-08-286-870A-8 | Sequence 8, Appli |
| 852 | 27 | 55.1 | 745 | 2 | US-09-177-165A-25 | Sequence 25, Appl |
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| 854 | 27 | 55.1 | 776 | 1 | US-08-700-607-5 | Sequence 5, Appli |
| 855 | 27 | 55.1 | 776 | 2 | US-09-949-016-6998 | Sequence 6998, Ap |
| 856 | 27 | 55.1 | 788 | 2 | US-09-733-643B-14 | Sequence 14, Appl |
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| 858 | 27 | 55.1 | 799 | 1 | US-08-525-940-23 | Sequence 23, Appl |
| 859 | 27 | 55.1 | 799 | 1 | US-08-976-838-23 | Sequence 23, Appl |
| 860 | 27 | 55.1 | 811 | 2 | US-08-983-275-2 | Sequence 2, Appli |
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| 862 | 27 | 55.1 | 881 | 1 | US-08-976-838-21 | Sequence 21, Appl |
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| 864 | 27 | 55.1 | 915 | 1 | US-08-976-838-18 | Sequence 18, Appl |
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| 866 | 27 | 55.1 | 915 | 2 | US-09-214-555B-7 | Sequence 7, Appli |
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| 868 | 27 | 55.1 | 953 | 1 | US-08-506-340A-1 | Sequence 1, Appli |
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| 870 | 27 | 55.1 | 976 | 2 | US-09-487-558B-248 | Sequence 248, App |
| 871 | 27 | 55.1 | 977 | 2 | US-08-335-844A-22 | Sequence 22, Appl |
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| 876 | 27 | 55.1 | 988 | 2 | US-10-162-012-5 | Sequence 5, Appli |
| 877 | 27 | 55.1 | 988 | 2 | US-10-162-012-12 | Sequence 12, Appl |
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| 880 | 27 | 55.1 | 1063 | 2 | US-09-596-248D-47 | Sequence 47, Appl |
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| 882 | 27 | 55.1 | 1106 | 2 | US-09-949-016-9626 | Sequence 9626, Ap |
| 883 | 27 | 55.1 | 1118 | 2 | US-09-949-016-6596 | Sequence 6596, Ap |
| 884 | 27 | 55.1 | 1120 | 2 | US-09-949-016-10404 | Sequence 10404, A |
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| 886 | 27 | 55.1 | 1144 | 2 | US-09-949-016-6446 | Sequence 6446, Ap |
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| 889 | 27 | 55.1 | 1240 | 2 | US-08-930-996A-4 | Sequence 4, Appli |
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| 891 | 27 | 55.1 | 1328 | 2 | US-09-618-166-76 | Sequence 76, Appl |
| 892 | 27 | 55.1 | 1427 | 2 | US-09-551-974A-97 | Sequence 97, Appl |
| 893 | 27 | 55.1 | 1427 | 2 | US-09-565-501A-97 | Sequence 97, Appl |
| 894 | 27 | 55.1 | 1427 | 2 | US-09-639-206A-97 | Sequence 97, Appl |
| 895 | 27 | 55.1 | 1427 | 2 | US-09-874-923-97 | Sequence 97, Appl |
| 896 | 27 | 55.1 | 1455 | 2 | US-08-840-062-5 | Sequence 5, Appli |
| 897 | 27 | 55.1 | 1456 | 2 | US-09-976-594-168 | Sequence 168, App |
| 898 | 27 | 55.1 | 1477 | 2 | US-09-830-230A-414 | Sequence 414, App |
| 899 | 27 | 55.1 | 1494 | 2 | US-09-830-230A-413 | Sequence 413, App |
| 900 | 27 | 55.1 | 1572 | 2 | US-09-562-702A-32 | Sequence 32, Appl |
| 901 | 27 | 55.1 | 1572 | 2 | US-09-561-818A-28 | Sequence 28, Appl |
| 902 | 27 | 55.1 | 1572 | 2 | US-10-037-182-20 | Sequence 20, Appl |
| 903 | 27 | 55.1 | 1575 | 2 | US-09-917-254-98 | Sequence 98, Appl |
| 904 | 27 | 55.1 | 1576 | 2 | US-09-562-702A-24 | Sequence 24, Appl |
| 905 | 27 | 55.1 | 1576 | 2 | US-09-561-818A-24 | Sequence 24, Appl |
| 906 | 27 | 55.1 | 1576 | 2 | US-10-037-182-16 | Sequence 16, Appl |
| 907 | 27 | 55.1 | 1584 | 2 | US-09-562-702A-28 | Sequence 28, Appl |
| 908 | 27 | 55.1 | 1605 | 2 | US-09-562-702A-30 | Sequence 30, Appl |
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| 910 | 27 | 55.1 | 1605 | 2 | US-10-037-182-18 | Sequence 18, Appl |
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| 912 | 27 | 55.1 | 1609 | 2 | US-09-561-818A-22 | Sequence 22, Appl |
| 913 | 27 | 55.1 | 1609 | 2 | US-09-538-092-900 | Sequence 900, App |
| 914 | 27 | 55.1 | 1609 | 2 | US-10-037-182-14 | Sequence 14, Appl |
| 915 | 27 | 55.1 | 1617 | 2 | US-09-562-702A-26 | Sequence 26, Appl |
| 916 | 27 | 55.1 | 1641 | 2 | US-09-551-974A-96 | Sequence 96, Appl |
| 917 | 27 | 55.1 | 1641 | 2 | US-09-565-501A-96 | Sequence 96, Appl |
| 918 | 27 | 55.1 | 1641 | 2 | US-09-639-206A-96 | Sequence 96, Appl |
| 919 | 27 | 55.1 | 1641 | 2 | US-09-874-923-96 | Sequence 96, Appl |
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| 922 | 27 | 55.1 | 1872 | 1 | US-08-646-715-14 | Sequence 14, Appl |
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| 924 | 27 | 55.1 | 1893 | 1 | US-08-188-582-11 | Sequence 11, Appl |
| 925 | 27 | 55.1 | 1893 | 1 | US-08-646-715-11 | Sequence 11, Appl |
| 926 | 27 | 55.1 | 1958 | 2 | US-10-028-946-4 | Sequence 4, Appli |
| 927 | 27 | 55.1 | 2053 | 2 | US-09-964-956-11 | Sequence 11, Appl |
| 928 | 27 | 55.1 | 2053 | 2 | US-10-017-216-2 | Sequence 2, Appli |
| 929 | 27 | 55.1 | 2054 | 2 | US-10-028-946-2 | Sequence 2, Appli |
| 930 | 27 | 55.1 | 2066 | 2 | US-09-964-956-9 | Sequence 9, Appli |
| 931 | 27 | 55.1 | 2323 | 2 | US-09-710-279-760 | Sequence 760, App |
| 932 | 27 | 55.1 | 2404 | 2 | US-09-134-001C-3464 | Sequence 3464, Ap |
| 933 | 27 | 55.1 | 3443 | 1 | US-08-416-603-2 | Sequence 2, Appli |
| 934 | 26.5 | 54.1 | 46 | 2 | US-09-471-276-1210 | Sequence 1210, Ap |
| 935 | 26.5 | 54.1 | 68 | 2 | US-09-270-767-44443 | Sequence 44443, A |
| 936 | 26.5 | 54.1 | 68 | 2 | US-09-270-767-59879 | Sequence 59879, A |
| 937 | 26.5 | 54.1 | 245 | 2 | US-08-845-258-32 | Sequence 32, Appl |
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| 941 | 26.5 | 54.1 | 245 | 2 | US-09-569-098A-32 | Sequence 32, Appl |
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| 943 | 26.5 | 54.1 | 444 | 2 | US-09-270-767-45361 | Sequence 45361, A |
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| 945 | 26.5 | 54.1 | 501 | 2 | US-09-248-796A-18735 | Sequence 18735, A |
| 946 | 26.5 | 54.1 | 668 | 2 | US-09-248-796A-18675 | Sequence 18675, A |
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| 953 | 26 | 53.1 | 42 | 2 | US-09-973-278-552 | Sequence 552, App |
| 954 | 26 | 53.1 | 47 | 1 | US-08-464-182A-27 | Sequence 27, Appl |
| 955 | 26 | 53.1 | 47 | 1 | US-08-693-274A-16 | Sequence 16, Appl |
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| 958 | 26 | 53.1 | 57 | 2 | US-09-270-767-55945 | Sequence 55945, A |
| 959 | 26 | 53.1 | 58 | 2 | US-09-270-767-42847 | Sequence 42847, A |
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| 965 | 26 | 53.1 | 65 | 2 | US-09-248-796A-26312 | Sequence 26312, A |
| 966 | 26 | 53.1 | 66 | 2 | US-09-270-767-35720 | Sequence 35720, A |
| 967 | 26 | 53.1 | 66 | 2 | US-09-270-767-50937 | Sequence 50937, A |
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| 969 | 26 | 53.1 | 66 | 2 | US-09-248-796A-21878 | Sequence 21878, A |
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| 972 | 26 | 53.1 | 69 | 2 | US-09-621-976-6067 | Sequence 6067, Ap |
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| 975 | 26 | 53.1 | 71 | 2 | US-09-513-999C-6619 | Sequence 6619, Ap |
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| 977 | 26 | 53.1 | 73 | 2 | US-09-583-110-4845 | Sequence 4845, Ap |
| 978 | 26 | 53.1 | 73 | 2 | US-09-107-433-4718 | Sequence 4718, Ap |
| 979 | 26 | 53.1 | 74 | 2 | US-09-107-532A-5503 | Sequence 5503, Ap |
| 980 | 26 | 53.1 | 75 | 2 | US-09-107-532A-5504 | Sequence 5504, Ap |
| 981 | 26 | 53.1 | 78 | 2 | US-09-270-767-37247 | Sequence 37247, A |
| 982 | 26 | 53.1 | 78 | 2 | US-09-270-767-52464 | Sequence 52464, A |
| 983 | 26 | 53.1 | 79 | 2 | US-09-134-000C-5913 | Sequence 5913, Ap |
| 984 | 26 | 53.1 | 80 | 2 | US-09-149-476-578 | Sequence 578, App |
| 985 | 26 | 53.1 | 85 | 2 | US-09-248-796A-21164 | Sequence 21164, A |
| 986 | 26 | 53.1 | 87 | 2 | US-10-002-344A-223 | Sequence 223, App |
| 987 | 26 | 53.1 | 89 | 2 | US-09-732-210-101 | Sequence 101, App |
| 988 | 26 | 53.1 | 90 | 2 | US-09-248-796A-25864 | Sequence 25864, A |
| 989 | 26 | 53.1 | 91 | 2 | US-09-540-236-3719 | Sequence 3719, Ap |
| 990 | 26 | 53.1 | 91 | 2 | US-09-248-796A-24474 | Sequence 24474, A |
| 991 | 26 | 53.1 | 91 | 2 | US-09-513-999C-4169 | Sequence 4169, Ap |
| 992 | 26 | 53.1 | 92 | 2 | US-09-583-110-4877 | Sequence 4877, Ap |
| 993 | 26 | 53.1 | 93 | 2 | US-09-248-796A-27221 | Sequence 27221, A |
| 994 | 26 | 53.1 | 94 | 2 | US-09-248-796A-26611 | Sequence 26611, A |
| 995 | 26 | 53.1 | 95 | 2 | US-09-248-796A-27372 | Sequence 27372, A |
| 996 | 26 | 53.1 | 95 | 2 | US-09-107-433-4574 | Sequence 4574, Ap |
| 997 | 26 | 53.1 | 97 | 2 | US-09-134-000C-4933 | Sequence 4933, Ap |
| 998 | 26 | 53.1 | 98 | 2 | US-09-621-976-4210 | Sequence 4210, Ap |
| 999 | 26 | 53.1 | 98 | 2 | US-09-270-767-39471 | Sequence 39471, A |
| 1000 | 26 | 53.1 | 98 | 2 | US-09-270-767-54688 | Sequence 54688, A |

ALIGNMENTS

```
RESULT 1
US-08-934-915-162
; Sequence 162, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  162:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-162

  Query Match             100.0%;  Score 49;  DB 1;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.033;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db         11 KCLKFYSKI 19


RESULT 2
US-10-612-818-4
; Sequence 4, Application US/10612818
; Patent No. 6933123
; GENERAL INFORMATION:
;  APPLICANT: Impact Diagnostics
;  APPLICANT:  Impact Diagnostics
;  TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomaviruses
;  TITLE OF INVENTION:  18 for Detecting and/or Diagnosing Cervical and Other Human Papil
;  TITLE OF INVENTION:  Associated Cancers
;  FILE REFERENCE: 3352-2-2
;  CURRENT APPLICATION NUMBER: US/10/612,818
;  CURRENT FILING DATE:  2003-07-01
;  PRIOR APPLICATION NUMBER: US 60/394,172
;  PRIOR FILING DATE: 2002-07-02
;  PRIOR APPLICATION NUMBER: US 09/828,645
;  PRIOR FILING DATE: 2001-04-05
;  NUMBER OF SEQ ID NOS: 8
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
;   LENGTH: 22
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Derived from the E6 early coding region of HPV 16
US-10-612-818-4

  Query Match             100.0%;  Score 49;  DB 2;  Length 22;
  Best Local Similarity   100.0%;  Pred. No. 0.036;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db         11 KCLKFYSKI 19


RESULT 3
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 158
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;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-2

  Query Match             100.0%;  Score 49;  DB 2;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.21;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db         72 KCLKFYSKI 80


RESULT 4
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-3

  Query Match             100.0%;  Score 49;  DB 1;  Length 162;
  Best Local Similarity   100.0%;  Pred. No. 0.22;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db         72 KCLKFYSKI 80


RESULT 5
US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-4

  Query Match             100.0%;  Score 49;  DB 1;  Length 162;
  Best Local Similarity   100.0%;  Pred. No. 0.22;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db         72 KCLKFYSKI 80


RESULT 6
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;  OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
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US-08-860-165-12

Query Match 100.0%; Score 49; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.23;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 KCLKFYSKI 9
              |||||||||
Db         10 KCLKFYSKI 18
```

RESULT 7
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

Query Match 100.0%; Score 49; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.23;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 KCLKFYSKI 9
              |||||||||
Db        141 KCLKFYSKI 149
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RESULT 8
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-12

Query Match 100.0%; Score 49; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.23;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 KCLKFYSKI 9
              |||||||||
Db         10 KCLKFYSKI 18
```

RESULT 9
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-14

Query Match 100.0%; Score 49; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.23;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 KCLKFYSKI 9
              |||||||||
Db        141 KCLKFYSKI 149
```

RESULT 10
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOUL, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/09/462,993
; CURRENT FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Derivated from
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
; OTHER INFORMATION: fused F protein signals, clone E6*TMF.

US-09-462-993-1

Query Match 100.0%; Score 49; DB 2; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.32;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCLKFYSKI 9
||||||||| 
Db 100 KCLKFYSKI 108

RESULT 11
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

Query Match 100.0%; Score 49; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCLKFYSKI 9
||||||||| 
Db 72 KCLKFYSKI 80

RESULT 12
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match 100.0%; Score 49; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCLKFYSKI 9
||||||||| 
Db 72 KCLKFYSKI 80

RESULT 13
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 49; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCLKFYSKI 9
||||||||| 
Db 72 KCLKFYSKI 80

RESULT 14
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-4

Query Match 100.0%; Score 49; DB 2; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.35;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCLKFYSKI 9

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              |||||||||
Db        178 KCLKFYSKI 186


RESULT 15
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-10

  Query Match             100.0%;  Score 49;  DB 2;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.37;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db        197 KCLKFYSKI 205


RESULT 16
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-6

  Query Match             100.0%;  Score 49;  DB 2;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 0.46;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db        178 KCLKFYSKI 186
```

```
RESULT 17
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-14

  Query Match             100.0%;  Score 49;  DB 2;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 0.48;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db        197 KCLKFYSKI 205


RESULT 18
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
;  APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
;  TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 FC
;  TITLE OF INVENTION:  TRANSCRIPTIONAL REGULATION
;  FILE REFERENCE: N73477C GCW
;  CURRENT APPLICATION NUMBER: US/09/701,080C
;  CURRENT FILING DATE:  2001-02-27
;  PRIOR APPLICATION NUMBER: GB 9811303.8
;  PRIOR FILING DATE: 1998-05-26
;  PRIOR APPLICATION NUMBER: GB 9900157.0
;  PRIOR FILING DATE: 1999-01-05
;  NUMBER OF SEQ ID NOS: 36
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-09-701-080C-18

  Query Match             91.8%;  Score 45;  DB 2;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 1;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSK 8
              ||||||||
Db         65 KCLKFYSK 72


RESULT 19
US-08-159-339A-137
; Sequence 137, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
```

```
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  137:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-137

  Query Match             81.6%;  Score 40;  DB 2;  Length 9;
  Best Local Similarity   88.9%;  Pred. No. 4.6e+05;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              | |||||||
Db          1 KALKFYSKI 9


RESULT 20
US-08-466-285-4
; Sequence 4, Application US/08466285
; Patent No. 5753233
;  GENERAL INFORMATION:
;    APPLICANT:  Bleul, Conrad
;    APPLICANT:  Gissmann, Lutz
;    APPLICANT:  Muller, Martin
;    TITLE OF INVENTION:  Seroreactive Epitopes On Proteins Of
;    TITLE OF INVENTION:  Human Papillomavirus (HPV)18
;    NUMBER OF SEQUENCES:  7
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Finnegan, Henderson, Farabow, Garrett &
;      ADDRESSEE:  Dunner
;      STREET:  1300 I Street, N.W., Suite 700
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20005-3315
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/466,285
;      FILING DATE:  06-JUN-1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/164,768
;      FILING DATE:  10-DEC-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/947,992
;      FILING DATE:  21-SEP-1992
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/696,953
;      FILING DATE:  08-MAY-1991
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  P 40 15 044.5
;      FILING DATE:  10-MAY-1990
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Manspeizer, David A.
;      REGISTRATION NUMBER:  37,540
;      REFERENCE/DOCKET NUMBER:  05552.1075-03000
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202)408-4000
;      TELEFAX:  (202)408-4400
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  32 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-466-285-4

  Query Match             77.6%;  Score 38;  DB 1;  Length 32;
  Best Local Similarity   66.7%;  Pred. No. 4.4;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              ||: |||:|
Db          5 KCIDFYSRI 13


RESULT 21
US-08-164-768-4
; Sequence 4, Application US/08164768
; Patent No. 6322794
;  GENERAL INFORMATION:
;    APPLICANT:  BLEUL, Conrad
;    APPLICANT:  GISSMANN, Lutz
;    APPLICANT:  MULLER, Martin
;    TITLE OF INVENTION:  SEROREACTIVE EPITOPES ON PROTEINS OF
;    TITLE OF INVENTION:  HUMAN PAPILLOMA VIRUS (HPV) 18
;    NUMBER OF SEQUENCES:  7
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  FINNEGAN, HENDERSON, FARABOW, GARRETT &
;      ADDRESSEE:  DUNNER, L.L.P.
;      STREET:  1300 I Street, N.W.
;      CITY:  Washington
;      STATE:  DC
;      COUNTRY:  USA
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
```

```
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.30
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/164,768
;       FILING DATE:  10-DEC-1993
;       CLASSIFICATION:  424
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Forman, David S.
;       REGISTRATION NUMBER:  33,694
;       REFERENCE/DOCKET NUMBER:  05552.1075-02000
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (202) 408-4000
;       TELEFAX:  (202) 408-4400
;   INFORMATION FOR SEQ ID NO:  4:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  32 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
US-08-164-768-4

  Query Match             77.6%;  Score 38;  DB 2;  Length 32;
  Best Local Similarity   66.7%;  Pred. No. 4.4;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              ||: |||:|
Db          5 KCIDFYSRI 13


RESULT 22
US-08-247-904B-10
; Sequence 10, Application US/08247904B
; Patent No. 5981699
;  GENERAL INFORMATION:
;    APPLICANT:  Rolfe, Mark
;    APPLICANT:  Eckstein, Jens W.
;    APPLICANT:  Draetta, Giulio
;    TITLE OF INVENTION:  Human Ubiquitin Conjugating Enzyme
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Foley, Hoag & Eliot
;      STREET:  One Post Office Square
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  ASCII(text)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/247,904B
;      FILING DATE:  23-MAY-1994
;      CLASSIFICATION:  530
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Vincent, Matthew P.
;      REGISTRATION NUMBER:  36,709
;      REFERENCE/DOCKET NUMBER:  MIV-029.01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 832-1000
;      TELEFAX:  (617) 832-7000
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  158 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-247-904B-10

  Query Match             77.6%;  Score 38;  DB 1;  Length 158;
  Best Local Similarity   66.7%;  Pred. No. 19;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              ||: |||:|
Db         67 KCIDFYSRI 75


RESULT 23
US-08-767-942A-19
; Sequence 19, Application US/08767942A
; Patent No. 6068982
;  GENERAL INFORMATION:
;    APPLICANT:  Rolfe, Mark
;    APPLICANT:  Chiu, M. Isabel
;    APPLICANT:  Berlin, Vivian
;    APPLICANT:  Damagnez, Veronique
;    APPLICANT:  Draetta, Giulio
;    APPLICANT:  Guillaume, Cottarel
;    TITLE OF INVENTION:  UBIQUITIN CONJUGATING ENZYMES
;    NUMBER OF SEQUENCES:  45
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  FOLEY, HOAG & ELIOT LLP
;      STREET:  One Post Office Square
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109-2170
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/767,942A
;      FILING DATE:  17-DEC-1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Vincent, Matthew P.
;      REGISTRATION NUMBER:  36,709
;      REFERENCE/DOCKET NUMBER:  MIV-029.04
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-832-1000
;      TELEFAX:  617-832-7000
;  INFORMATION FOR SEQ ID NO:  19:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  158 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-767-942A-19

  Query Match             77.6%;  Score 38;  DB 2;  Length 158;
  Best Local Similarity   66.7%;  Pred. No. 19;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              ||: |||:|
Db         67 KCIDFYSRI 75


RESULT 24
US-08-117-083-14
; Sequence 14, Application US/08117083
; Patent No. 5719054
;  GENERAL INFORMATION:
;    APPLICANT:  Boursnell, Michael E.
;    APPLICANT:  Inglis, Stephen C.
;    APPLICANT:  Munro, Alan J.
;    TITLE OF INVENTION:  Recombinant Virus Vectors Encoding Human
;    TITLE OF INVENTION:  Papilloma Virus Proteins
;    NUMBER OF SEQUENCES:  70
;    CORRESPONDENCE ADDRESS:
```

```
;       ADDRESSEE:  Walter H. Dreger
;       STREET:  4 Embarcadero Center, Suite 3400
;       CITY:  San Francisco
;       STATE:  CA
;       COUNTRY:  USA
;       ZIP:  94111
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/117,083
;       FILING DATE:  10-SEP-1993
;       CLASSIFICATION:  435
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Dreger, Walter H.
;       REGISTRATION NUMBER:  24,190
;       REFERENCE/DOCKET NUMBER:  A-58783
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  415-781-1989
;       TELEFAX:  415-398-3249
;       TELEX:  910 277299
;   INFORMATION FOR SEQ ID NO:  14:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  271 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
;     FEATURE:
;       NAME/KEY:  Protein
;       LOCATION:  1..271
;       OTHER INFORMATION:  /note= "Xaa refers to stop codon in
;       OTHER INFORMATION:  the open reading frame."
US-08-117-083-14

  Query Match             77.6%;  Score 38;  DB 1;  Length 271;
  Best Local Similarity   66.7%;  Pred. No. 30;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              ||: |||:|
Db         68 KCIDFYSRI 76


RESULT 25
US-09-485-885-21
; Sequence 21, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 21
;   LENGTH: 278
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-21

  Query Match             77.6%;  Score 38;  DB 2;  Length 278;
  Best Local Similarity   66.7%;  Pred. No. 31;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              ||: |||:|
Db        178 KCIDFYSRI 186


RESULT 26
US-09-485-885-23
; Sequence 23, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 23
;   LENGTH: 383
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-23

  Query Match             77.6%;  Score 38;  DB 2;  Length 383;
  Best Local Similarity   66.7%;  Pred. No. 41;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              ||: |||:|
Db        178 KCIDFYSRI 186


RESULT 27
US-09-270-767-43800
; Sequence 43800, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 43800
;   LENGTH: 505
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
;   FEATURE:
;   OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-43800

  Query Match             75.5%;  Score 37;  DB 2;  Length 505;
  Best Local Similarity   75.0%;  Pred. No. 80;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSK 8
              ||||:| |
Db        144 KCLKYYPK 151


RESULT 28
```

```
US-08-159-339A-74
; Sequence 74, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  74:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-74

  Query Match             73.5%;  Score 36;  DB 2;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 4.6e+05;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFY 6
              ||||||
Db          4 KCLKFY 9


RESULT 29
US-08-159-339A-561
; Sequence 561, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  561:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  10 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-561

  Query Match             73.5%;  Score 36;  DB 2;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 3.4;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFY 6
              ||||||
Db          5 KCLKFY 10


RESULT 30
US-09-567-225-9
; Sequence 9, Application US/09567225
; Patent No. 6713052
; GENERAL INFORMATION:
;  APPLICANT:  White, John R.
;  APPLICANT:  Pelus, Louis
;  APPLICANT:  Li, Haodong
;  APPLICANT:  Kreider, Brent L.
;  TITLE OF INVENTION:  No. 6713052el Chemokine for Mobilizing Stem Cells
;  FILE REFERENCE:  1488.1550004
;  CURRENT APPLICATION NUMBER: US/09/567,225
;  CURRENT FILING DATE:  2000-10-09
;  PRIOR APPLICATION NUMBER:  US 09/225,501
;  PRIOR FILING DATE:  1999-01-06
;  PRIOR APPLICATION NUMBER:  US 60/006,051
;  PRIOR FILING DATE:  1995-10-24
;  PRIOR APPLICATION NUMBER:  US 08/740,033
;  PRIOR FILING DATE:  1996-10-23
;  NUMBER OF SEQ ID NOS:  19
;  SOFTWARE:  PatentIn version 3.0
; SEQ ID NO 9
;  LENGTH: 82
;  TYPE: PRT
;  ORGANISM: CKBeta-12
```

```
US-09-567-225-9

  Query Match             73.5%;  Score 36;  DB 2;  Length 82;
  Best Local Similarity   62.5%;  Pred. No. 23;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              |||:| |:
Db         17 CLKYYEKV 24


RESULT 31
US-08-347-492B-2
; Sequence 2, Application US/08347492B
; Patent No. 5602008
;  GENERAL INFORMATION:
;    APPLICANT:  Wilde, Craig G.
;    APPLICANT:  Hawkins, Phillip R.
;    APPLICANT:  Bandman, Olga
;    APPLICANT:  Seilhamer, Jeffrey J.
;    TITLE OF INVENTION:  EXPRESSED CHEMOKINES, THEIR
;    TITLE OF INVENTION:  PRODUCTION AND USES
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Incyte Pharmaceuticals, Inc.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  U.S.
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 1.5
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/347,492B
;      FILING DATE:  29-NOV-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/303,241
;      FILING DATE:  07-SEP-1994
;      APPLICATION NUMBER:  08/320,011
;      FILING DATE:  05-OCT-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Luther, Barbara J
;      REGISTRATION NUMBER:  33,954
;      REFERENCE/DOCKET NUMBER:  PF-0024
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-855-0555
;      TELEFAX:  415-852-0195
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  120 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    IMMEDIATE SOURCE:
;      LIBRARY:  LIVER
;      CLONE:  87825
US-08-347-492B-2

  Query Match             73.5%;  Score 36;  DB 1;  Length 120;
  Best Local Similarity   62.5%;  Pred. No. 33;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              |||:| |:
Db         38 CLKYYEKV 45


RESULT 32
US-08-798-143-2
; Sequence 2, Application US/08798143
; Patent No. 5936068
; GENERAL INFORMATION:
;    APPLICANT:  Wilde, Craig G.
;    APPLICANT:  Hawkins, Phillip R.
;    APPLICANT:  Bandman, Olga
;    APPLICANT:  Seilhamer, Jeffrey J.
;    TITLE OF INVENTION:  EXPRESSED CHEMOKINES, THEIR
;    TITLE OF INVENTION:  PRODUCTION AND USES
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Incyte Pharmaceuticals, Inc.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  U.S.
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 1.5
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/798,143
;      FILING DATE:  10-FEB-1997
;      CLASSIFICATION:  536
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/347,492
;      FILING DATE:  29-NOV-1994
;      APPLICATION NUMBER:  08/303,241
;      FILING DATE:  07-SEP-1994
;      APPLICATION NUMBER:  08/320,011
;      FILING DATE:  05-OCT-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Luther, Barbara J
;      REGISTRATION NUMBER:  33,954
;      REFERENCE/DOCKET NUMBER:  PF-0024
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-855-0555
;      TELEFAX:  415-852-0195
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  120 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    IMMEDIATE SOURCE:
;      LIBRARY:  LIVER
;      CLONE:  87825
US-08-798-143-2

  Query Match             73.5%;  Score 36;  DB 1;  Length 120;
  Best Local Similarity   62.5%;  Pred. No. 33;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              |||:| |:
Db         38 CLKYYEKV 45


RESULT 33
PCT-US95-15484-2
; Sequence 2, Application PC/TUS9515484
;  GENERAL INFORMATION:
;    APPLICANT:  INCYTE PHARMACEUTICALS, INC.
;    TITLE OF INVENTION:  EXPRESSED CHEMOKINES, THEIR PRODUCTION AND
;    TITLE OF INVENTION:  USES
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  INCYTE PHARMACEUTICALS, INC.
;      STREET:  3174 PORTER DRIVE
;      CITY:  PALO ALTO
```

```
;       STATE:  CA
;       COUNTRY:  USA
;       ZIP:  94304
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.30
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  PCT/US95/15484
;       FILING DATE:  29-NOV-1995
;       CLASSIFICATION:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 08/347,492
;       FILING DATE:  29-NOV-1994
;       CLASSIFICATION:
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  LUTHER, BARBARA J
;       REGISTRATION NUMBER:  33954
;       REFERENCE/DOCKET NUMBER:  PF-0024 PCT
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  415-855-0555
;       TELEFAX:  415-852-0195
;   INFORMATION FOR SEQ ID NO:  2:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  120 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  unknown
;     MOLECULE TYPE:  peptide
;     IMMEDIATE SOURCE:
;       LIBRARY:  Liver
;       CLONE:  87825
PCT-US95-15484-2

  Query Match             73.5%;  Score 36;  DB 4;  Length 120;
  Best Local Similarity   62.5%;  Pred. No. 33;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              |||:| |:
Db         38 CLKYYEKV 45


RESULT 34
PCT-US95-07171-2
; Sequence 2, Application PC/TUS9507171
;  GENERAL INFORMATION:
;    APPLICANT:  MOONEY, J.
;    TITLE OF INVENTION:  Human Chemokine Beta-12
;    NUMBER OF SEQUENCES:  7
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  CARELLA, BYRNE, BAIN, GILFILLAN,
;      ADDRESSEE:  CECCHI, STEWART & OLSTEIN
;      STREET:  6 BECKER FARM ROAD
;      CITY:  ROSELAND
;      STATE:  NEW JERSEY
;      COUNTRY:  USA
;      ZIP:  07068
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  3.5 INCH DISKETTE
;      COMPUTER:  IBM PS/2
;      OPERATING SYSTEM:  MS-DOS
;      SOFTWARE:  WORD PERFECT 5.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US95/07171
;      FILING DATE:  6 JUN 95
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  None
;      FILING DATE:  None
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  FERRARO, GREGORY D.
;      REGISTRATION NUMBER:  36,134
;      REFERENCE/DOCKET NUMBER:  325800-391
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  201-994-1700
;      TELEFAX:  201-994-1744
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  136 AMINO ACIDS
;      TYPE:  AMINO ACID
;      STRANDEDNESS:
;      TOPOLOGY:  LINEAR
;    MOLECULE TYPE:  PROTEIN
PCT-US95-07171-2

  Query Match             73.5%;  Score 36;  DB 4;  Length 136;
  Best Local Similarity   62.5%;  Pred. No. 37;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              |||:| |:
Db         54 CLKYYEKV 61


RESULT 35
PCT-US95-07171-3
; Sequence 3, Application PC/TUS9507171
;  GENERAL INFORMATION:
;    APPLICANT:  MOONEY, J.
;    TITLE OF INVENTION:  Human Chemokine Beta-12
;    NUMBER OF SEQUENCES:  7
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  CARELLA, BYRNE, BAIN, GILFILLAN,
;      ADDRESSEE:  CECCHI, STEWART & OLSTEIN
;      STREET:  6 BECKER FARM ROAD
;      CITY:  ROSELAND
;      STATE:  NEW JERSEY
;      COUNTRY:  USA
;      ZIP:  07068
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  3.5 INCH DISKETTE
;      COMPUTER:  IBM PS/2
;      OPERATING SYSTEM:  MS-DOS
;      SOFTWARE:  WORD PERFECT 5.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US95/07171
;      FILING DATE:  6 JUN 95
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  None
;      FILING DATE:  None
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  FERRARO, GREGORY D.
;      REGISTRATION NUMBER:  36,134
;      REFERENCE/DOCKET NUMBER:  325800-391
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  201-994-1700
;      TELEFAX:  201-994-1744
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  191 AMINO ACIDS
;      TYPE:  AMINO ACID
;      STRANDEDNESS:
;      TOPOLOGY:  LINEAR
;    MOLECULE TYPE:  PROTEIN
PCT-US95-07171-3

  Query Match             73.5%;  Score 36;  DB 4;  Length 191;
  Best Local Similarity   62.5%;  Pred. No. 50;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              |||:| |:
Db         54 CLKYYEKV 61
```

```
RESULT 36
US-09-459-749D-11
; Sequence 11, Application US/09459749D
; Patent No. 6464975
; GENERAL INFORMATION:
;  APPLICANT: Millis, Albert J. T.
;  TITLE OF INVENTION: Compositions and Methods For Altering Cell Migration
;  FILE REFERENCE: 0794.016A
;  CURRENT APPLICATION NUMBER: US/09/459,749D
;  CURRENT FILING DATE:  1999-12-10
;  PRIOR APPLICATION NUMBER: 60/111,856
;  PRIOR FILING DATE: 1998-12-11
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:SITE
;   NAME/KEY: SITE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Peptide corresponding to amino acids 118-132 of
;   OTHER INFORMATION: porcine clusterin
US-09-459-749D-11

  Query Match             71.4%;  Score 35;  DB 2;  Length 15;
  Best Local Similarity   50.0%;  Pred. No. 7.4;
  Matches    4;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              |:|||:::
Db          4 CMKFYARV 11


RESULT 37
US-10-120-508-7
; Sequence 7, Application US/10120508
; Patent No. 6930085
; GENERAL INFORMATION:
;  APPLICANT: FOGELMAN, ALAN
;  APPLICANT:  NAVAB, MOHAMAD
;  TITLE OF INVENTION: G-TYPE PEPTIDES TO AMELIORATE ATHEROSCLEROSIS
;  FILE REFERENCE: 407T-301100US
;  CURRENT APPLICATION NUMBER: US/10/120,508
;  CURRENT FILING DATE:  2002-04-05
;  NUMBER OF SEQ ID NOS: 32
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7
;   LENGTH: 16
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic D peptide.
US-10-120-508-7

  Query Match             71.4%;  Score 35;  DB 2;  Length 16;
  Best Local Similarity   50.0%;  Pred. No. 7.9;
  Matches    4;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              |:|||:::
Db          7 CMKFYARV 14


RESULT 38
US-10-120-508-8
; Sequence 8, Application US/10120508
; Patent No. 6930085
; GENERAL INFORMATION:
;  APPLICANT: FOGELMAN, ALAN
;  APPLICANT:  NAVAB, MOHAMAD
;  TITLE OF INVENTION: G-TYPE PEPTIDES TO AMELIORATE ATHEROSCLEROSIS
;  FILE REFERENCE: 407T-301100US
;  CURRENT APPLICATION NUMBER: US/10/120,508
;  CURRENT FILING DATE:  2002-04-05
;  NUMBER OF SEQ ID NOS: 32
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 8
;   LENGTH: 19
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic D peptide.
US-10-120-508-8

  Query Match             71.4%;  Score 35;  DB 2;  Length 19;
  Best Local Similarity   50.0%;  Pred. No. 9.2;
  Matches    4;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              |:|||:::
Db         10 CMKFYARV 17


RESULT 39
US-09-248-796A-22995
; Sequence 22995, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 22995
;   LENGTH: 63
;   TYPE: PRT
;   ORGANISM: Candida albicans
US-09-248-796A-22995

  Query Match             71.4%;  Score 35;  DB 2;  Length 63;
  Best Local Similarity   55.6%;  Pred. No. 27;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              ||: ||| :
Db         12 KCISFYSSL 20


RESULT 40
US-09-248-796A-15345
; Sequence 15345, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 15345
;   LENGTH: 200
```

```
;   TYPE: PRT
;   ORGANISM: Candida albicans
US-09-248-796A-15345

  Query Match             71.4%;  Score 35;  DB 2;  Length 200;
  Best Local Similarity   62.5%;  Pred. No. 78;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSK 8
              |||:|::|
Db         66 KCLRFFNK 73


RESULT 41
US-09-832-129-34
; Sequence 34, Application US/09832129
; Patent No. 6936691
; GENERAL INFORMATION:
;  APPLICANT: Fiscella et al.
;  TITLE OF INVENTION: 19 Human secreted proteins
;  FILE REFERENCE: PZ045P1
;  CURRENT APPLICATION NUMBER: US/09/832,129
;  CURRENT FILING DATE:  2001-04-11
;  PRIOR APPLICATION NUMBER: PCT/US00/28664
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/163,085
;  PRIOR FILING DATE: 1999-11-02
;  PRIOR APPLICATION NUMBER: 60/172,411
;  PRIOR FILING DATE: 1999-12-17
;  NUMBER OF SEQ ID NOS: 70
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 34
;   LENGTH: 363
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-832-129-34

  Query Match             71.4%;  Score 35;  DB 2;  Length 363;
  Best Local Similarity   50.0%;  Pred. No. 1.3e+02;
  Matches    4;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              |:|||:::
Db        120 CMKFYARV 127


RESULT 42
US-09-949-016-11532
; Sequence 11532, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11532
;   LENGTH: 464
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-11532

  Query Match             71.4%;  Score 35;  DB 2;  Length 464;
  Best Local Similarity   50.0%;  Pred. No. 1.7e+02;
  Matches    4;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              |:|||:::
Db        136 CMKFYARV 143


RESULT 43
US-09-270-767-32609
; Sequence 32609, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 32609
;   LENGTH: 85
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-32609

  Query Match             69.4%;  Score 34;  DB 2;  Length 85;
  Best Local Similarity   44.4%;  Pred. No. 54;
  Matches    4;  Conservative    4;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              ||: |:|::
Db         44 KCINFFSRV 52


RESULT 44
US-09-270-767-47826
; Sequence 47826, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 47826
;   LENGTH: 85
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-47826

  Query Match             69.4%;  Score 34;  DB 2;  Length 85;
  Best Local Similarity   44.4%;  Pred. No. 54;
  Matches    4;  Conservative    4;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              ||: |:|::
Db         44 KCINFFSRV 52


RESULT 45
US-08-460-309-10
; Sequence 10, Application US/08460309
; Patent No. 5837496
;  GENERAL INFORMATION:
;    APPLICANT:  Engvall, Eva
;    APPLICANT:  Leivo, Ilmo
;    TITLE OF INVENTION:  Nucleic Acids Encoding Merosin, Merosin
;    TITLE OF INVENTION:  Fragments and Uses Thereof
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Campbell and Flores
```

```
;       STREET:  4370 La Jolla Village Drive, Suite 700
;       CITY:  San Diego
;       STATE:  California
;       COUNTRY:  USA
;       ZIP:  92122
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/460,309
;       FILING DATE:
;       CLASSIFICATION:  435
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 08/125,077
;       FILING DATE:  22-SEP-1993
;       APPLICATION NUMBER:  US PCT/US 94/10730
;       FILING DATE:  21-SEP-1994
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/472,319
;       FILING DATE:  30-JAN-1990
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/919,951
;       FILING DATE:  27-JUL-1992
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Campbell, Cathryn A.
;       REGISTRATION NUMBER:  31,815
;       REFERENCE/DOCKET NUMBER:  P-LA 9721
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (619) 535-9001
;       TELEFAX:  (619) 535-8949
;   INFORMATION FOR SEQ ID NO:  10:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  264 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
US-08-460-309-10

  Query Match             69.4%;  Score 34;  DB 1;  Length 264;
  Best Local Similarity   75.0%;  Pred. No. 1.5e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
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Db        177 CTSFYSKI 184


RESULT 46
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; Sequence 10, Application US/08125077
; Patent No. 5872231
; Patent No. 5872231 5840863
;  GENERAL INFORMATION:
;    APPLICANT:  Engvall, Eva
;    APPLICANT:  Leivo, Ilmo
;    TITLE OF INVENTION:  Nucleic Acids Encoding Merosin, Merosin
;    TITLE OF INVENTION:  Fragments and Uses Thereof
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Campbell and Flores
;      STREET:  4370 La Jolla Village Drive, Suite 700
;      CITY:  San Diego
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  92122
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/125,077
;      FILING DATE:  22-SEP-1993
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US PCT/US 94/10730
;      FILING DATE:  21-SEP-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/472,319
;      FILING DATE:  30-JAN-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/919,951
;      FILING DATE:  27-JUL-1992
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Campbell, Cathryn A.
;      REGISTRATION NUMBER:  31,815
;      REFERENCE/DOCKET NUMBER:  P-LA 9721
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (619) 535-9001
;      TELEFAX:  (619) 535-8949
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  264 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
US-08-125-077-10

  Query Match             69.4%;  Score 34;  DB 1;  Length 264;
  Best Local Similarity   75.0%;  Pred. No. 1.5e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
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Db        177 CTSFYSKI 184


RESULT 47
US-08-637-670-25
; Sequence 25, Application US/08637670
; Patent No. 6413521
;  GENERAL INFORMATION:
;    APPLICANT:  MCMICHAEL-PHILLIPS et al.
;    TITLE OF INVENTION:  Helminth Parasite Antigen with
;    TITLE OF INVENTION:  Aminopeptidase-like Activity
;    NUMBER OF SEQUENCES:  43
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Barbara G. Ernst
;      STREET:  555 13TH STREET, NW  Suite 701E
;      CITY:  Washington
;      STATE:  DC
;      COUNTRY:  USA
;      ZIP:  20004
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/637,670
;      FILING DATE:  26-JUN-1996
;      CLASSIFICATION:  536
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Ernst, Barbara G.
;      REGISTRATION NUMBER:  30,377
;      REFERENCE/DOCKET NUMBER:  1811-0232
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-783-6040
;      TELEFAX:  202-783-6031
;  INFORMATION FOR SEQ ID NO:  25:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  350 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
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US-08-637-670-25

Query Match 69.4%; Score 34; DB 2; Length 350;
Best Local Similarity 62.5%; Pred. No. 1.9e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

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Db 315 RCLEFYEK 322

RESULT 48
US-08-335-844A-23
; Sequence 23, Application US/08335844A
; Patent No. 6066503
; GENERAL INFORMATION:
; APPLICANT: GRAHAM, MARGARET
; APPLICANT: SMITH, TREVOR STANLEY
; APPLICANT: MUNN, EDWARD ALBERT
; APPLICANT: KNOX, DAVID PATRICK
; APPLICANT: OLIVER, JOANNA JANE
; APPLICANT: NEWTON, SUSAN ELIZABETH
; TITLE OF INVENTION: RECOMBINANT DNA MOLECULES ENCODING
; TITLE OF INVENTION: AMINOPEPTIDASE ENZYMES AND THEIR USE IN THE PREPARATION OF
; TITLE OF INVENTION: VACCINES AGAINST HELMINTH INFECTIONS
; NUMBER OF SEQUENCES: 73
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rothwell, Figg, Ernst & Kurz
; STREET: Suite 701-E, 555 Thirteenth St., N.W
; CITY: Washington
; STATE: D. C.
; COUNTRY: U.S.A.
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/335,844A
; FILING DATE: 09-JAN-1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB PCT/GB93/00943
; FILING DATE: 06-MAY-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9209936
; FILING DATE: 08-MAY-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: WALKER, Barbara W.
; REGISTRATION NUMBER: 35,400
; REFERENCE/DOCKET NUMBER: 1181-223A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)783-6040
; TELEFAX: (202)783-6031
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 972 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-335-844A-23

Query Match 69.4%; Score 34; DB 2; Length 972;
Best Local Similarity 62.5%; Pred. No. 4.9e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KCLKFYSK 8
:||:|| |
Db 314 RCLEFYEK 321

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US-09-129-366-23
; Sequence 23, Application US/09129366
; Patent No. 6534638
; GENERAL INFORMATION:
; APPLICANT: GRAHAM, MARGARET
; APPLICANT: SMITH, TREVOR STANLEY
; APPLICANT: MUNN, EDWARD ALBERT
; APPLICANT: KNOX, DAVID PATRICK
; APPLICANT: OLIVER, JOANNA JANE
; APPLICANT: NEWTON, SUSAN ELIZABETH
; TITLE OF INVENTION: RECOMBINANT DNA MOLECULES ENCODING
; TITLE OF INVENTION: AMINOPEPTIDASE ENZYMES AND THEIR USE IN THE PREPARATION OF
; TITLE OF INVENTION: VACCINES AGAINST HELMINTH INFECTIONS
; NUMBER OF SEQUENCES: 73
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rothwell, Figg, Ernst & Kurz
; STREET: Suite 701-E, 555 Thirteenth St., N.W
; CITY: Washington
; STATE: D. C.
; COUNTRY: U.S.A.
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/129,366
; FILING DATE: 05-AUG-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/335,844
; FILING DATE: 09-JAN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB PCT/GB93/00943
; FILING DATE: 06-MAY-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9209936
; FILING DATE: 08-MAY-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: ERNST, Barbara G.
; REGISTRATION NUMBER: 30,377
; REFERENCE/DOCKET NUMBER: 1181-241A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)783-6040
; TELEFAX: (202)783-6031
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 972 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-129-366-23

Query Match 69.4%; Score 34; DB 2; Length 972;
Best Local Similarity 62.5%; Pred. No. 4.9e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

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Db 314 RCLEFYEK 321

RESULT 50
US-09-949-016-7517
; Sequence 7517, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7517
; LENGTH: 2123
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-7517

Query Match 69.4%; Score 34; DB 2; Length 2123;
Best Local Similarity 75.0%; Pred. No. 9.9e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 CLKFYSKI 9
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Db 215 CTSFYSKI 222

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OM protein - protein search, using sw model

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Title: US-08-170-344-69
Perfect score: 49
Sequence: 1 KCLKFYSKI 9

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Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_Main:*
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 25 | 39 | 79.6 | 151 | 6 | US-11-021-949-26 | Sequence 26, Appl |
| 26 | 39 | 79.6 | 158 | 6 | US-11-021-949-30 | Sequence 30, Appl |
| 27 | 39 | 79.6 | 162 | 6 | US-11-021-949-31 | Sequence 31, Appl |
| 28 | 38 | 77.6 | 151 | 6 | US-11-021-949-24 | Sequence 24, Appl |
| 29 | 38 | 77.6 | 158 | 5 | US-10-800-023-27 | Sequence 27, Appl |
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| 35 | 38 | 77.6 | 278 | 5 | US-10-899-771-21 | Sequence 21, Appl |
| 36 | 38 | 77.6 | 383 | 4 | US-10-000-903-23 | Sequence 23, Appl |
| 37 | 38 | 77.6 | 383 | 5 | US-10-899-771-23 | Sequence 23, Appl |
| 38 | 36 | 73.5 | 65 | 4 | US-10-437-963-198440 | Sequence 198440, |
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| 40 | 36 | 73.5 | 96 | 4 | US-10-398-457-36 | Sequence 36, Appl |
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| 49 | 36 | 73.5 | 148 | 6 | US-11-021-949-359 | Sequence 359, App |
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| 52 | 36 | 73.5 | 155 | 6 | US-11-021-949-22 | Sequence 22, Appl |
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| 54 | 36 | 73.5 | 159 | 6 | US-11-097-143-27393 | Sequence 27393, A |
| 55 | 36 | 73.5 | 863 | 4 | US-10-437-963-192423 | Sequence 192423, |
| 56 | 35 | 71.4 | 15 | 3 | US-09-459-749D-11 | Sequence 11, Appl |
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| 60 | 35 | 71.4 | 75 | 4 | US-10-425-115-266253 | Sequence 266253, |
| 61 | 35 | 71.4 | 111 | 4 | US-10-424-599-251917 | Sequence 251917, |
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| 63 | 35 | 71.4 | 160 | 6 | US-11-021-949-32 | Sequence 32, Appl |
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| 66 | 35 | 71.4 | 363 | 3 | US-09-832-129-34 | Sequence 34, Appl |
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| 68 | 35 | 71.4 | 363 | 4 | US-10-733-368-34 | Sequence 34, Appl |
| 69 | 35 | 71.4 | 413 | 5 | US-10-491-213-44 | Sequence 44, Appl |
| 70 | 35 | 71.4 | 416 | 4 | US-10-257-021-60 | Sequence 60, Appl |
| 71 | 35 | 71.4 | 425 | 5 | US-10-491-213-33 | Sequence 33, Appl |
| 72 | 35 | 71.4 | 447 | 4 | US-10-205-194-166 | Sequence 166, App |
| 73 | 35 | 71.4 | 449 | 4 | US-10-116-275-250 | Sequence 250, App |
| 74 | 35 | 71.4 | 449 | 4 | US-10-291-172-217 | Sequence 217, App |
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| 77 | 35 | 71.4 | 449 | 5 | US-10-773-446-87 | Sequence 87, Appl |
| 78 | 35 | 71.4 | 449 | 5 | US-10-989-891-133 | Sequence 133, App |
| 79 | 35 | 71.4 | 503 | 4 | US-10-467-535-12 | Sequence 12, Appl |
| 80 | 35 | 71.4 | 510 | 5 | US-10-491-213-32 | Sequence 32, Appl |
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| 82 | 35 | 71.4 | 544 | 4 | US-10-467-535-9 | Sequence 9, Appli |
| 83 | 35 | 71.4 | 603 | 4 | US-10-425-115-267216 | Sequence 267216, |
| 84 | 35 | 71.4 | 611 | 4 | US-10-425-114-59817 | Sequence 59817, A |
| 85 | 35 | 71.4 | 1216 | 4 | US-10-437-963-151804 | Sequence 151804, |
| 86 | 35 | 71.4 | 1239 | 4 | US-10-437-963-184660 | Sequence 184660, |
| 87 | 35 | 71.4 | 1496 | 4 | US-10-437-963-199994 | Sequence 199994, |
| 88 | 34 | 69.4 | 39 | 4 | US-10-425-115-188756 | Sequence 188756, |
| 89 | 34 | 69.4 | 41 | 4 | US-10-437-963-131993 | Sequence 131993, |
| 90 | 34 | 69.4 | 113 | 4 | US-10-424-599-237362 | Sequence 237362, |
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| 92 | 34 | 69.4 | 382 | 4 | US-10-424-599-175820 | Sequence 175820, |
| 93 | 34 | 69.4 | 503 | 6 | US-11-097-143-40371 | Sequence 40371, A |
| 94 | 34 | 69.4 | 572 | 4 | US-10-437-963-160255 | Sequence 160255, |
| 95 | 34 | 69.4 | 667 | 4 | US-10-425-115-307023 | Sequence 307023, |
| 96 | 34 | 69.4 | 972 | 4 | US-10-100-049-23 | Sequence 23, Appl |
| 97 | 34 | 69.4 | 972 | 6 | US-11-097-143-37266 | Sequence 37266, A |
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| 102 | 34 | 69.4 | 3070 | 3 | US-09-961-403-7 | Sequence 7, Appli |
| 103 | 34 | 69.4 | 3122 | 5 | US-10-723-860-698 | Sequence 698, App |
| 104 | 34 | 69.4 | 3150 | 5 | US-10-450-763-50773 | Sequence 50773, A |
| 105 | 33 | 67.3 | 20 | 5 | US-10-808-187-1498 | Sequence 1498, Ap |
| 106 | 33 | 67.3 | 20 | 5 | US-10-807-807-1498 | Sequence 1498, Ap |
| 107 | 33 | 67.3 | 42 | 4 | US-10-425-115-363948 | Sequence 363948, |
| 108 | 33 | 67.3 | 47 | 4 | US-10-424-599-268686 | Sequence 268686, |
| 109 | 33 | 67.3 | 56 | 4 | US-10-424-599-196031 | Sequence 196031, |
| 110 | 33 | 67.3 | 58 | 4 | US-10-424-599-236525 | Sequence 236525, |
| 111 | 33 | 67.3 | 70 | 4 | US-10-425-115-220460 | Sequence 220460, |
| 112 | 33 | 67.3 | 70 | 4 | US-10-425-115-248693 | Sequence 248693, |
| 113 | 33 | 67.3 | 80 | 4 | US-10-425-115-298029 | Sequence 298029, |
| 114 | 33 | 67.3 | 92 | 4 | US-10-437-963-124212 | Sequence 124212, |
| 115 | 33 | 67.3 | 99 | 3 | US-09-864-761-39547 | Sequence 39547, A |
| 116 | 33 | 67.3 | 100 | 3 | US-09-738-626-4400 | Sequence 4400, Ap |
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| 119 | 33 | 67.3 | 149 | 6 | US-11-021-949-16 | Sequence 16, Appl |
| 120 | 33 | 67.3 | 155 | 4 | US-10-071-751-62 | Sequence 62, Appl |
| 121 | 33 | 67.3 | 179 | 4 | US-10-174-693-289 | Sequence 289, App |
| 122 | 33 | 67.3 | 299 | 5 | US-10-510-408-133 | Sequence 133, App |
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| 126 | 33 | 67.3 | 339 | 4 | US-10-380-614-2 | Sequence 2, Appli |
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| 135 | 33 | 67.3 | 383 | 5 | US-10-732-923-4911 | Sequence 4911, Ap |
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| 137 | 33 | 67.3 | 383 | 5 | US-10-732-923-4913 | Sequence 4913, Ap |
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| 158 | 32 | 65.3 | 23 | 4 | US-10-669-861-88 | Sequence 88, Appl |
| 159 | 32 | 65.3 | 23 | 5 | US-10-746-864-80 | Sequence 80, Appl |
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| 172 | 32 | 65.3 | 111 | 5 | US-10-732-620-52 | Sequence 52, Appl |
| 173 | 32 | 65.3 | 111 | 5 | US-10-732-620-54 | Sequence 54, Appl |
| 174 | 32 | 65.3 | 111 | 5 | US-10-732-620-55 | Sequence 55, Appl |
| 175 | 32 | 65.3 | 111 | 5 | US-10-732-620-59 | Sequence 59, Appl |
| 176 | 32 | 65.3 | 113 | 5 | US-10-732-620-53 | Sequence 53, Appl |
| 177 | 32 | 65.3 | 113 | 5 | US-10-732-620-71 | Sequence 71, Appl |
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| 210 | 32 | 65.3 | 683 | 5 | US-10-473-127-514 | Sequence 514, App |
| 211 | 32 | 65.3 | 683 | 5 | US-10-473-127-515 | Sequence 515, App |
| 212 | 32 | 65.3 | 683 | 5 | US-10-473-127-516 | Sequence 516, App |
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| 218 | 32 | 65.3 | 779 | 4 | US-10-410-764-114 | Sequence 114, App |
| 219 | 32 | 65.3 | 863 | 4 | US-10-151-208-14 | Sequence 14, Appl |
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| 230 | 31 | 63.3 | 21 | 4 | US-10-029-386-32320 | Sequence 32320, A |
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| 236 | 31 | 63.3 | 39 | 4 | US-10-091-414-195 | Sequence 195, App |
| 237 | 31 | 63.3 | 39 | 4 | US-10-424-599-259902 | Sequence 259902, |
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| 243 | 31 | 63.3 | 58 | 4 | US-10-629-248-52 | Sequence 52, Appl |
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| 263 | 31 | 63.3 | 76 | 4 | US-10-104-755-81 | Sequence 81, Appl |
| 264 | 31 | 63.3 | 76 | 4 | US-10-104-755-83 | Sequence 83, Appl |
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| 299 | 31 | 63.3 | 99 | 4 | US-10-295-027-187 | Sequence 187, App |
| 300 | 31 | 63.3 | 99 | 4 | US-10-295-027-1209 | Sequence 1209, Ap |
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| 304 | 31 | 63.3 | 99 | 4 | US-10-734-564-74 | Sequence 74, Appl |
| 305 | 31 | 63.3 | 99 | 5 | US-10-733-878-511 | Sequence 511, App |
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| 321 | 31 | 63.3 | 158 | 2 | US-08-809-423A-26 | Sequence 26, Appl |
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| 384 | 31 | 63.3 | 532 | 4 | US-10-341-959-6 | Sequence 6, Appli |
| 385 | 31 | 63.3 | 537 | 4 | US-10-425-114-43205 | Sequence 43205, A |
| 386 | 31 | 63.3 | 540 | 4 | US-10-094-749-1654 | Sequence 1654, Ap |
| 387 | 31 | 63.3 | 543 | 4 | US-10-424-599-218031 | Sequence 218031, |
| 388 | 31 | 63.3 | 543 | 5 | US-10-739-930-9449 | Sequence 9449, Ap |
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| 390 | 31 | 63.3 | 550 | 4 | US-10-425-114-59915 | Sequence 59915, A |
| 391 | 31 | 63.3 | 554 | 4 | US-10-437-963-169736 | Sequence 169736, |
| 392 | 31 | 63.3 | 560 | 4 | US-10-425-115-327949 | Sequence 327949, |

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| 393 | 31 | 63.3 | 570 | 4 | US-10-221-625-31 | Sequence 31, Appl |
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| 395 | 31 | 63.3 | 632 | 4 | US-10-437-963-122014 | Sequence 122014, |
| 396 | 31 | 63.3 | 640 | 4 | US-10-437-963-171972 | Sequence 171972, |
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| 398 | 31 | 63.3 | 692 | 4 | US-10-369-493-48 | Sequence 48, Appl |
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| 401 | 31 | 63.3 | 758 | 4 | US-10-149-310-260 | Sequence 260, App |
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| 419 | 31 | 63.3 | 919 | 5 | US-10-866-259-5 | Sequence 5, Appli |
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| 422 | 31 | 63.3 | 980 | 5 | US-10-450-763-40985 | Sequence 40985, A |
| 423 | 31 | 63.3 | 981 | 4 | US-10-437-963-103410 | Sequence 103410, |
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| 609 | 30 | 61.2 | 936 | 4 | US-10-128-714-8126 | Sequence 8126, Ap |
| 610 | 30 | 61.2 | 966 | 4 | US-10-369-493-2239 | Sequence 2239, Ap |
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| 615 | 30 | 61.2 | 1102 | 4 | US-10-369-493-1074 | Sequence 1074, Ap |
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| 632 | 29 | 59.2 | 16 | 5 | US-10-912-434-23 | Sequence 23, Appl |
| 633 | 29 | 59.2 | 16 | 5 | US-10-844-218-17 | Sequence 17, Appl |
| 634 | 29 | 59.2 | 16 | 5 | US-10-844-218-127 | Sequence 127, App |
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| 636 | 29 | 59.2 | 17 | 4 | US-10-059-261-166 | Sequence 166, App |
| 637 | 29 | 59.2 | 17 | 5 | US-10-627-649-58 | Sequence 58, Appl |
| 638 | 29 | 59.2 | 17 | 5 | US-10-627-649-166 | Sequence 166, App |
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| 870 | 29 | 59.2 | 415 | 3 | US-09-925-300-1352 | Sequence 1352, Ap |
| 871 | 29 | 59.2 | 415 | 4 | US-10-424-599-257066 | Sequence 257066, |
| 872 | 29 | 59.2 | 415 | 4 | US-10-425-114-57069 | Sequence 57069, A |
| 873 | 29 | 59.2 | 420 | 4 | US-10-437-963-129273 | Sequence 129273, |
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| 875 | 29 | 59.2 | 423 | 4 | US-10-425-114-57322 | Sequence 57322, A |
| 876 | 29 | 59.2 | 423 | 5 | US-10-450-763-58727 | Sequence 58727, A |
| 877 | 29 | 59.2 | 424 | 5 | US-10-732-923-14991 | Sequence 14991, A |
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| 881 | 29 | 59.2 | 435 | 4 | US-10-424-599-149228 | Sequence 149228, |
| 882 | 29 | 59.2 | 437 | 4 | US-10-629-313-159 | Sequence 159, App |
| 883 | 29 | 59.2 | 445 | 4 | US-10-291-172-593 | Sequence 593, App |
| 884 | 29 | 59.2 | 445 | 4 | US-10-221-278-593 | Sequence 593, App |
| 885 | 29 | 59.2 | 446 | 4 | US-10-162-497-51 | Sequence 51, Appl |
| 886 | 29 | 59.2 | 446 | 4 | US-10-629-313-51 | Sequence 51, Appl |
| 887 | 29 | 59.2 | 448 | 4 | US-10-369-493-1498 | Sequence 1498, Ap |
| 888 | 29 | 59.2 | 461 | 4 | US-10-112-944-474 | Sequence 474, App |
| 889 | 29 | 59.2 | 462 | 3 | US-09-886-319A-72 | Sequence 72, Appl |
| 890 | 29 | 59.2 | 462 | 4 | US-10-376-564-72 | Sequence 72, Appl |
| 891 | 29 | 59.2 | 462 | 4 | US-10-363-712-1 | Sequence 1, Appli |
| 892 | 29 | 59.2 | 462 | 5 | US-10-631-467-1439 | Sequence 1439, Ap |
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| 929 | 29 | 59.2 | 514 | 5 | US-10-882-761-25 | Sequence 25, Appl |
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| 936 | 29 | 59.2 | 549 | 3 | US-09-796-858-2 | Sequence 2, Appli |
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| 939 | 29 | 59.2 | 562 | 4 | US-10-425-114-37777 | Sequence 37777, A |
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| 942 | 29 | 59.2 | 574 | 4 | US-10-437-963-135259 | Sequence 135259, |
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| 944 | 29 | 59.2 | 580 | 6 | US-11-097-143-8433 | Sequence 8433, Ap |
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| 948 | 29 | 59.2 | 601 | 3 | US-09-871-615-2 | Sequence 2, Appli |
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| 950 | 29 | 59.2 | 602 | 4 | US-10-108-260A-3704 | Sequence 3704, Ap |
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| 952 | 29 | 59.2 | 611 | 5 | US-10-480-988-9 | Sequence 9, Appli |
| 953 | 29 | 59.2 | 612 | 4 | US-10-097-340-201 | Sequence 201, App |
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| 955 | 29 | 59.2 | 612 | 4 | US-10-301-822-136 | Sequence 136, App |
| 956 | 29 | 59.2 | 612 | 6 | US-11-050-926-201 | Sequence 201, App |
| 957 | 29 | 59.2 | 620 | 4 | US-10-097-340-197 | Sequence 197, App |
| 958 | 29 | 59.2 | 620 | 4 | US-10-171-311-148 | Sequence 148, App |
| 959 | 29 | 59.2 | 620 | 4 | US-10-301-822-134 | Sequence 134, App |
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| 963 | 29 | 59.2 | 621 | 5 | US-10-991-321-16 | Sequence 16, Appl |
| 964 | 29 | 59.2 | 622 | 4 | US-10-097-340-205 | Sequence 205, App |
| 965 | 29 | 59.2 | 622 | 4 | US-10-171-311-154 | Sequence 154, App |
| 966 | 29 | 59.2 | 622 | 4 | US-10-099-322-48 | Sequence 48, Appl |
| 967 | 29 | 59.2 | 622 | 4 | US-10-099-322-49 | Sequence 49, Appl |
| 968 | 29 | 59.2 | 622 | 4 | US-10-099-322-50 | Sequence 50, Appl |
| 969 | 29 | 59.2 | 622 | 4 | US-10-173-999-36 | Sequence 36, Appl |
| 970 | 29 | 59.2 | 622 | 4 | US-10-044-564-48 | Sequence 48, Appl |
| 971 | 29 | 59.2 | 622 | 4 | US-10-044-564-49 | Sequence 49, Appl |
| 972 | 29 | 59.2 | 622 | 4 | US-10-044-564-50 | Sequence 50, Appl |
| 973 | 29 | 59.2 | 622 | 4 | US-10-388-930-2 | Sequence 2, Appli |
| 974 | 29 | 59.2 | 622 | 5 | US-10-645-756-34 | Sequence 34, Appl |
| 975 | 29 | 59.2 | 622 | 5 | US-10-936-626-116 | Sequence 116, App |
| 976 | 29 | 59.2 | 622 | 5 | US-10-938-061-116 | Sequence 116, App |

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| 977 | 29 | 59.2 | 622 | 5 | US-10-756-149-5259 | Sequence 5259, Ap |
| 978 | 29 | 59.2 | 622 | 5 | US-10-983-340-5 | Sequence 5, Appli |
| 979 | 29 | 59.2 | 622 | 6 | US-11-050-926-205 | Sequence 205, App |
| 980 | 29 | 59.2 | 624 | 6 | US-11-097-143-35976 | Sequence 35976, A |
| 981 | 29 | 59.2 | 628 | 4 | US-10-097-340-208 | Sequence 208, App |
| 982 | 29 | 59.2 | 628 | 4 | US-10-157-031-245 | Sequence 245, App |
| 983 | 29 | 59.2 | 628 | 4 | US-10-099-322-4 | Sequence 4, Appli |
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| 985 | 29 | 59.2 | 628 | 4 | US-10-173-999-38 | Sequence 38, Appl |
| 986 | 29 | 59.2 | 628 | 4 | US-10-044-564-4 | Sequence 4, Appli |
| 987 | 29 | 59.2 | 628 | 4 | US-10-044-564-46 | Sequence 46, Appl |
| 988 | 29 | 59.2 | 628 | 4 | US-10-388-930-1 | Sequence 1, Appli |
| 989 | 29 | 59.2 | 628 | 6 | US-11-050-926-208 | Sequence 208, App |
| 990 | 29 | 59.2 | 630 | 4 | US-10-097-340-195 | Sequence 195, App |
| 991 | 29 | 59.2 | 630 | 4 | US-10-097-340-210 | Sequence 210, App |
| 992 | 29 | 59.2 | 630 | 4 | US-10-171-311-146 | Sequence 146, App |
| 993 | 29 | 59.2 | 630 | 4 | US-10-099-322-47 | Sequence 47, Appl |
| 994 | 29 | 59.2 | 630 | 4 | US-10-044-564-47 | Sequence 47, Appl |
| 995 | 29 | 59.2 | 630 | 6 | US-11-050-926-195 | Sequence 195, App |
| 996 | 29 | 59.2 | 630 | 6 | US-11-050-926-210 | Sequence 210, App |
| 997 | 29 | 59.2 | 638 | 4 | US-10-437-963-200887 | Sequence 200887, |
| 998 | 29 | 59.2 | 640 | 4 | US-10-258-951-76 | Sequence 76, Appl |
| 999 | 29 | 59.2 | 640 | 5 | US-10-990-000-76 | Sequence 76, Appl |
| 1000 | 29 | 59.2 | 673 | 4 | US-10-336-472-118 | Sequence 118, App |

ALIGNMENTS

RESULT 1
US-10-476-570-11
; Sequence 11, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 20
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 61-80
US-10-476-570-11

Query Match 100.0%; Score 49; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.063;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCLKFYSKI 9
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Db 12 KCLKFYSKI 20

RESULT 2
US-10-612-818-4
; Sequence 4, Application US/10612818
; Publication No. US20040110925A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; APPLICANT: Impact Diagnostics
; TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomaviruses
; TITLE OF INVENTION: 18 for Detecting and/or Diagnosing Cervical and Other Human Papil
; TITLE OF INVENTION: Associated Cancers
; FILE REFERENCE: 3352-2-2
; CURRENT APPLICATION NUMBER: US/10/612,818
; CURRENT FILING DATE: 2003-07-01
; PRIOR APPLICATION NUMBER: US 60/394,172
; PRIOR FILING DATE: 2002-07-02
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the E6 early coding region of HPV 16
US-10-612-818-4

Query Match 100.0%; Score 49; DB 4; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.069;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 11 KCLKFYSKI 19

RESULT 3
US-10-995-902-4
; Sequence 4, Application US/10995902
; Publication No. US20050221295A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; APPLICANT: Impact Diagnostics
; TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomaviruses
; TITLE OF INVENTION: 18 for Detecting and/or Diagnosing Cervical and Other Human Papil
; TITLE OF INVENTION: Associated Cancers
; FILE REFERENCE: 3352-2-2
; CURRENT APPLICATION NUMBER: US/10/995,902
; CURRENT FILING DATE: 2004-11-23
; PRIOR APPLICATION NUMBER: US 60/394,172
; PRIOR FILING DATE: 2002-07-02
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the E6 early coding region of HPV 16
US-10-995-902-4

Query Match 100.0%; Score 49; DB 5; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.069;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCLKFYSKI 9
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Db 11 KCLKFYSKI 19

RESULT 4
US-11-021-949-14
; Sequence 14, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER

; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-14

Query Match 100.0%; Score 49; DB 6; Length 149;
Best Local Similarity 100.0%; Pred. No. 0.42;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCLKFYSKI 9
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Db 65 KCLKFYSKI 73

RESULT 5
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
; APPLICANT: N.V. Antwerps Innovatiecentrum
; TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
; TITLE OF INVENTION: Polynucleotides by Electroporation
; FILE REFERENCE: 021505wo/JH/ml
; CURRENT APPLICATION NUMBER: US/10/177,390
; CURRENT FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-177-390-6

Query Match 100.0%; Score 49; DB 4; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.43;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCLKFYSKI 9
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Db 65 KCLKFYSKI 73

RESULT 6
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-20

Query Match 100.0%; Score 49; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.43;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 65 KCLKFYSKI 73

RESULT 7
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-27

Query Match 100.0%; Score 49; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.43;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KCLKFYSKI 9
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Db 65 KCLKFYSKI 73

RESULT 8
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2

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;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-10-858-384-2

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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db         72 KCLKFYSKI 80


RESULT 9
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
;  APPLICANT: Cuthill, Scott;
;  APPLICANT:  Jackson, Amanda;
;  APPLICANT:  Lewin, David A.;
;  APPLICANT:  Ooi, Chean Eng
;  TITLE OF INVENTION: Complexes and Methods of Using Same
;  FILE REFERENCE: 21402-559
;  CURRENT APPLICATION NUMBER: US/10/367,057
;  CURRENT FILING DATE:  2003-02-14
;  PRIOR APPLICATION NUMBER: 60/256,911
;  PRIOR FILING DATE: 2002-02-14
;  NUMBER OF SEQ ID NOS: 198
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 16
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-367-057-16

  Query Match             100.0%;  Score 49;  DB 5;  Length 158;
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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db         72 KCLKFYSKI 80


RESULT 10
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

  Query Match             100.0%;  Score 49;  DB 6;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.45;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db         72 KCLKFYSKI 80


RESULT 11
US-10-472-724-2
; Sequence 2, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
;  APPLICANT: Cid-Arregui, Angel
;  APPLICANT:  Zur Hausen, Harald
;  TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
;  FILE REFERENCE: 4121-154
;  CURRENT APPLICATION NUMBER: US/10/472,724
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP02/03271
;  PRIOR FILING DATE: 2002-03-22
;  PRIOR APPLICATION NUMBER: EP 01107271.7
;  PRIOR FILING DATE: 2001-03-23
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
;   LENGTH: 171
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

  Query Match             100.0%;  Score 49;  DB 4;  Length 171;
  Best Local Similarity   100.0%;  Pred. No. 0.48;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db         77 KCLKFYSKI 85


RESULT 12
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
;  APPLICANT: KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE: 017753-122
;  CURRENT APPLICATION NUMBER: US/11/072,288
;  CURRENT FILING DATE:  2005-03-07
;  PRIOR APPLICATION NUMBER: US/09/462,993
;  PRIOR FILING DATE: 2000-04-17
;  PRIOR APPLICATION NUMBER: PCT/FR98/01576
;  PRIOR FILING DATE: 1998-07-17
;  PRIOR APPLICATION NUMBER: FR 97/09152
;  PRIOR FILING DATE: 1997-07-18
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

  Query Match             100.0%;  Score 49;  DB 6;  Length 243;
```

```
  Best Local Similarity   100.0%;  Pred. No. 0.67;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db        100 KCLKFYSKI 108


RESULT 13
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 49;  DB 3;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.73;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db         72 KCLKFYSKI 80


RESULT 14
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-4

  Query Match             100.0%;  Score 49;  DB 4;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 0.75;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db        178 KCLKFYSKI 186


RESULT 15
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-4

  Query Match             100.0%;  Score 49;  DB 5;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 0.75;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db        178 KCLKFYSKI 186


RESULT 16
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-10

  Query Match             100.0%;  Score 49;  DB 4;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.8;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
```

```
Db        197 KCLKFYSKI 205


RESULT 17
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
;   OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-10

  Query Match             100.0%;  Score 49;  DB 5;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.8;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db        197 KCLKFYSKI 205


RESULT 18
US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-6

  Query Match             100.0%;  Score 49;  DB 4;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db        178 KCLKFYSKI 186


RESULT 19
US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
;   OTHER INFORMATION: virus type 16)
US-10-899-771-6

  Query Match             100.0%;  Score 49;  DB 5;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db        178 KCLKFYSKI 186


RESULT 20
US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-14

  Query Match             100.0%;  Score 49;  DB 4;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy          1 KCLKFYSKI 9
              |||||||||
Db        197 KCLKFYSKI 205


RESULT 21
US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
;   OTHER INFORMATION: pneumoniae and E6E7 fusion from Human papilloma
;   OTHER INFORMATION: virus type 16)
US-10-899-771-14

  Query Match             100.0%;  Score 49;  DB 5;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db        197 KCLKFYSKI 205


RESULT 22
US-11-021-949-18
; Sequence 18, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 18
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-18

  Query Match             91.8%;  Score 45;  DB 6;  Length 149;
  Best Local Similarity   77.8%;  Pred. No. 2.3;
  Matches    7;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||:||||:
Db         65 KCLRFYSKV 73


RESULT 23
US-11-021-949-19
; Sequence 19, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 19
;   LENGTH: 148
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-19

  Query Match             89.8%;  Score 44;  DB 6;  Length 148;
  Best Local Similarity   100.0%;  Pred. No. 3.4;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              ||||||||
Db         67 CLKFYSKI 74


RESULT 24
US-11-021-949-25
; Sequence 25, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 25
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-25

  Query Match             81.6%;  Score 40;  DB 6;  Length 151;
  Best Local Similarity   77.8%;  Pred. No. 19;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              ||| |||:|
Db         65 KCLMFYSRI 73
```

```
RESULT 25
US-11-021-949-26
; Sequence 26, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 26
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-26

  Query Match             79.6%;  Score 39;  DB 6;  Length 151;
  Best Local Similarity   77.8%;  Pred. No. 28;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              ||: |||||
Db         65 KCIIFYSKI 73


RESULT 26
US-11-021-949-30
; Sequence 30, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 30
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-30

  Query Match             79.6%;  Score 39;  DB 6;  Length 158;
  Best Local Similarity   75.0%;  Pred. No. 30;
  Matches    6;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              |:|||:||
Db         68 CIKFYAKI 75


RESULT 27
US-11-021-949-31
; Sequence 31, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 31
;   LENGTH: 162
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-31

  Query Match             79.6%;  Score 39;  DB 6;  Length 162;
  Best Local Similarity   75.0%;  Pred. No. 30;
  Matches    6;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              |:|||:||
Db         72 CIKFYAKI 79


RESULT 28
US-11-021-949-24
; Sequence 24, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 24
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-24

  Query Match             77.6%;  Score 38;  DB 6;  Length 151;
  Best Local Similarity   77.8%;  Pred. No. 43;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              :|| |||||
Db         65 QCLLFYSKI 73


RESULT 29
US-10-800-023-27
; Sequence 27, Application US/10800023
; Publication No. US20040258688A1
; GENERAL INFORMATION:
;  APPLICANT: Steinman, Ralph
;  APPLICANT:  Nussenzweig, Michel
;  APPLICANT:  Hawiger, Daniel
;  APPLICANT:  Bonifaz, Laura
;  TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
```

```
;  TITLE OF INVENTION:  of the Immune Response Therefrom
;  FILE REFERENCE: 600-1-081CONCIP1
;  CURRENT APPLICATION NUMBER: US/10/800,023
;  CURRENT FILING DATE:  2004-03-14
;  PRIOR APPLICATION NUMBER: 09/925,284
;  PRIOR FILING DATE: 2001-08-09
;  PRIOR APPLICATION NUMBER: 09/586,704
;  PRIOR FILING DATE: 2000-06-05
;  PRIOR APPLICATION NUMBER: PCT/US96/01383
;  PRIOR FILING DATE: 1996-01-31
;  PRIOR APPLICATION NUMBER: 08/381,528
;  PRIOR FILING DATE: 1995-01-31
;  NUMBER OF SEQ ID NOS: 37
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 27
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus E6 protein
US-10-800-023-27

  Query Match             77.6%;  Score 38;  DB 5;  Length 158;
  Best Local Similarity   66.7%;  Pred. No. 45;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              ||: |||:|
Db         67 KCIDFYSRI 75


RESULT 30
US-11-021-949-28
; Sequence 28, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 28
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-28

  Query Match             77.6%;  Score 38;  DB 6;  Length 158;
  Best Local Similarity   66.7%;  Pred. No. 45;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              ||: |||:|
Db         67 KCIDFYSRI 75


RESULT 31
US-11-021-949-29
; Sequence 29, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 29
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-29

  Query Match             77.6%;  Score 38;  DB 6;  Length 158;
  Best Local Similarity   66.7%;  Pred. No. 45;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              ||: |||:|
Db         67 KCIDFYSRI 75


RESULT 32
US-11-021-949-361
; Sequence 361, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 361
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-361

  Query Match             77.6%;  Score 38;  DB 6;  Length 158;
  Best Local Similarity   55.6%;  Pred. No. 45;
  Matches    5;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              ||:||::|:
Db         67 KCIKFHAKV 75


RESULT 33
US-10-472-724-6
; Sequence 6, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
;  APPLICANT: Cid-Arregui, Angel
;  APPLICANT:  Zur Hausen, Harald
;  TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
;  FILE REFERENCE: 4121-154
;  CURRENT APPLICATION NUMBER: US/10/472,724
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP02/03271
;  PRIOR FILING DATE: 2002-03-22
;  PRIOR APPLICATION NUMBER: EP 01107271.7
;  PRIOR FILING DATE: 2001-03-23
```

; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-6

Query Match 77.6%; Score 38; DB 4; Length 172;
Best Local Similarity 66.7%; Pred. No. 49;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KCLKFYSKI 9
||: |||:|
Db 73 KCIDFYSRI 81

RESULT 34
US-10-000-903-21
; Sequence 21, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-21

Query Match 77.6%; Score 38; DB 4; Length 278;
Best Local Similarity 66.7%; Pred. No. 77;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KCLKFYSKI 9
||: |||:|
Db 178 KCIDFYSRI 186

RESULT 35
US-10-899-771-21
; Sequence 21, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
; OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
; OTHER INFORMATION: 18)
US-10-899-771-21

Query Match 77.6%; Score 38; DB 5; Length 278;
Best Local Similarity 66.7%; Pred. No. 77;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KCLKFYSKI 9
||: |||:|
Db 178 KCIDFYSRI 186

RESULT 36
US-10-000-903-23
; Sequence 23, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-23

Query Match 77.6%; Score 38; DB 4; Length 383;
Best Local Similarity 66.7%; Pred. No. 1e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KCLKFYSKI 9
||: |||:|
Db 178 KCIDFYSRI 186

RESULT 37
US-10-899-771-23
; Sequence 23, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24

; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
; OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 18)
US-10-899-771-23

Query Match 77.6%; Score 38; DB 5; Length 383;
Best Local Similarity 66.7%; Pred. No. 1e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KCLKFYSKI 9
||: |||:|
Db 178 KCIDFYSRI 186

RESULT 38
US-10-437-963-198440
; Sequence 198440, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 198440
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_9409C.1.pep
US-10-437-963-198440

Query Match 73.5%; Score 36; DB 4; Length 65;
Best Local Similarity 85.7%; Pred. No. 45;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 CLKFYSK 8
||||:||
Db 14 CLKFFSK 20

RESULT 39
US-10-803-960-9
; Sequence 9, Application US/10803960
; Publication No. US20040156822A1
; GENERAL INFORMATION:
; APPLICANT: White, John R.
; APPLICANT: Pelus, Louis
; APPLICANT: Li, Haodong
; APPLICANT: Kreider, Brent L.
; TITLE OF INVENTION: Novel Chemokine for Mobilizing Stem Cells
; FILE REFERENCE: PF497D2
; CURRENT APPLICATION NUMBER: US/10/803,960
; CURRENT FILING DATE: 2004-03-19
; PRIOR APPLICATION NUMBER: 09/567,225
; PRIOR FILING DATE: 2000-05-09
; PRIOR APPLICATION NUMBER: US 09/225,501
; PRIOR FILING DATE: 1999-01-06
; PRIOR APPLICATION NUMBER: US 60/006,051
; PRIOR FILING DATE: 1995-10-24
; PRIOR APPLICATION NUMBER: US 08/740,033
; PRIOR FILING DATE: 1996-10-23
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 9
; LENGTH: 82
; TYPE: PRT
; ORGANISM: CKBeta-12
US-10-803-960-9

Query Match 73.5%; Score 36; DB 4; Length 82;
Best Local Similarity 62.5%; Pred. No. 56;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CLKFYSKI 9
|||:| |:
Db 17 CLKYYEKV 24

RESULT 40
US-10-398-457-36
; Sequence 36, Application US/10398457
; Publication No. US20040101509A1
; GENERAL INFORMATION:
; APPLICANT: APPLIED RESEARCH SYSTEMS ARS HOLDING N.V.
; TITLE OF INVENTION: CHEMOKINES MUTANTS IN THE TREATMENT OF MULTIPLE SCLEROSIS
; FILE REFERENCE: WO465
; CURRENT APPLICATION NUMBER: US/10/398,457
; CURRENT FILING DATE: 2003-11-13
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 36
; LENGTH: 96
; TYPE: PRT
; ORGANISM: Escherichia coli
US-10-398-457-36

Query Match 73.5%; Score 36; DB 4; Length 96;
Best Local Similarity 62.5%; Pred. No. 65;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CLKFYSKI 9
|||:| |:
Db 14 CLKYYEKV 21

RESULT 41
US-10-332-038A-14
; Sequence 14, Application US/10332038A
; Publication No. US20040077835A1
; GENERAL INFORMATION:
; APPLICANT: Gryphon Therapeutics, Inc.
; APPLICANT: Offord, Robin
; APPLICANT: Gaertner, Hubert
; APPLICANT: Hartley, Oliver
; TITLE OF INVENTION: Chemokine Receptor Modulators, Production and Use
; FILE REFERENCE: 03504.271
; CURRENT APPLICATION NUMBER: US/10/332,038A
; CURRENT FILING DATE: 2003-05-06
; PRIOR APPLICATION NUMBER: US 60/217,683
; PRIOR FILING DATE: 2000-07-12
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 14
; LENGTH: 97
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-332-038A-14

Query Match 73.5%; Score 36; DB 4; Length 97;

```
  Best Local Similarity   62.5%;  Pred. No. 66;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              |||:| |:
Db         15 CLKYYEKV 22


RESULT 42
US-10-779-267-3
; Sequence 3, Application US/10779267
; Publication No. US20040228836A1
; GENERAL INFORMATION:
;  APPLICANT: EPSTEIN, ALAN L.
;  APPLICANT:  LI, JIALI
;  APPLICANT:  HU, PEISHENG
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR CANCER IMMUNOTHERAPY
;  FILE REFERENCE: 075405-0402
;  CURRENT APPLICATION NUMBER: US/10/779,267
;  CURRENT FILING DATE:  2004-02-13
;  PRIOR APPLICATION NUMBER: 60/447,714
;  PRIOR FILING DATE: 2003-02-14
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 3
;   LENGTH: 97
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-779-267-3

  Query Match             73.5%;  Score 36;  DB 5;  Length 97;
  Best Local Similarity   62.5%;  Pred. No. 66;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              |||:| |:
Db         15 CLKYYEKV 22


RESULT 43
US-10-839-017-6
; Sequence 6, Application US/10839017
; Publication No. US20050058635A1
; GENERAL INFORMATION:
;  APPLICANT: DEMUTH, HANS-ULRICH
;  APPLICANT:  HOFFMANN, TORSTEN
;  APPLICANT:  NIESTROJ, ANDRE J.
;  APPLICANT:  SCHILLING, STEPHAN
;  TITLE OF INVENTION: USE OF EFFECTORS OF GLUTAMINYL CYCLASE
;  FILE REFERENCE: 20488-53
;  CURRENT APPLICATION NUMBER: US/10/839,017
;  CURRENT FILING DATE:  2004-05-05
;  PRIOR APPLICATION NUMBER: 60/468,043
;  PRIOR FILING DATE: 2003-05-05
;  PRIOR APPLICATION NUMBER: 60/512,038
;  PRIOR FILING DATE: 2003-10-15
;  PRIOR APPLICATION NUMBER: 60/468,014
;  PRIOR FILING DATE: 2003-05-05
;  NUMBER OF SEQ ID NOS: 35
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 6
;   LENGTH: 97
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-839-017-6

  Query Match             73.5%;  Score 36;  DB 5;  Length 97;
  Best Local Similarity   62.5%;  Pred. No. 66;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              |||:| |:
Db         15 CLKYYEKV 22


RESULT 44
US-10-332-039A-14
; Sequence 14, Application US/10332039A
; Publication No. US20050089970A1
; GENERAL INFORMATION:
;  APPLICANT: Gryphon Therapeutics, Inc.
;  APPLICANT:  Bradburne, James
;  APPLICANT:  Kochendoerfer, Gerd
;  APPLICANT:  Wilken, Jill
;  TITLE OF INVENTION: Polymer-Modified Bioactive Synthetic Chemokines and Methods for
;  TITLE OF INVENTION:  their Manufacture and Use
;  FILE REFERENCE: 03504.270
;  CURRENT APPLICATION NUMBER: US/10/332,039A
;  CURRENT FILING DATE:  2003-01-06
;  PRIOR APPLICATION NUMBER: US60/217,683
;  PRIOR FILING DATE: 2000-07-12
;  NUMBER OF SEQ ID NOS: 41
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 14
;   LENGTH: 97
;   TYPE: PRT
;   ORGANISM: Homo Sapiens
US-10-332-039A-14

  Query Match             73.5%;  Score 36;  DB 5;  Length 97;
  Best Local Similarity   62.5%;  Pred. No. 66;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              |||:| |:
Db         15 CLKYYEKV 22


RESULT 45
US-10-293-705-2
; Sequence 2, Application US/10293705
; Publication No. US20030083468A1
; GENERAL INFORMATION:
;  APPLICANT: Wilde, Craig G.
;  APPLICANT:  Hawkins, Phillip R.
;  APPLICANT:  Bandman, Olga
;  APPLICANT:  Seilhamer, Jeffrey J.
;  TITLE OF INVENTION: DNA ENCODING LIVER EXPRESSED CHEMOKINE
;  FILE REFERENCE: PF-0024-3 CON
;  CURRENT APPLICATION NUMBER: US/10/293,705
;  CURRENT FILING DATE:  2002-11-12
;  PRIOR APPLICATION NUMBER: 09/208,803
;  PRIOR FILING DATE: 1998-12-09
;  PRIOR APPLICATION NUMBER: 08/798,143
;  PRIOR FILING DATE: 1997-02-10
;  PRIOR APPLICATION NUMBER: 08/347,492
;  PRIOR FILING DATE: 1994-11-29
;  NUMBER OF SEQ ID NOS: 12
;  SOFTWARE: PERL Program
; SEQ ID NO 2
;   LENGTH: 120
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No. US20030083468A1 087825
US-10-293-705-2

  Query Match             73.5%;  Score 36;  DB 4;  Length 120;
  Best Local Similarity   62.5%;  Pred. No. 80;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              |||:| |:
Db         38 CLKYYEKV 45
```

```
RESULT 46
US-10-412-548-24
; Sequence 24, Application US/10412548
; Publication No. US20030232367A1
; GENERAL INFORMATION:
;  APPLICANT: Pharmacia
;  TITLE OF INVENTION: DIFFERENTIALLY EXPRESSED GENES INVOLVED IN ANGIOGENESIS, THE
;  TITLE OF INVENTION:  PROTEINS ENCODED THEREBY, AND METHODS OF USING THE SAME
;  FILE REFERENCE: 01055/2
;  CURRENT APPLICATION NUMBER: US/10/412,548
;  CURRENT FILING DATE:  2003-04-11
;  PRIOR APPLICATION NUMBER: 60/372,173
;  PRIOR FILING DATE: 2002-04-12
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 24
;   LENGTH: 120
;   TYPE: PRT
;   ORGANISM: homo sapien
US-10-412-548-24

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Db         38 CLKYYEKV 45


RESULT 47
US-10-779-267-2
; Sequence 2, Application US/10779267
; Publication No. US20040228836A1
; GENERAL INFORMATION:
;  APPLICANT: EPSTEIN, ALAN L.
;  APPLICANT:  LI, JIALI
;  APPLICANT:  HU, PEISHENG
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR CANCER IMMUNOTHERAPY
;  FILE REFERENCE: 075405-0402
;  CURRENT APPLICATION NUMBER: US/10/779,267
;  CURRENT FILING DATE:  2004-02-13
;  PRIOR APPLICATION NUMBER: 60/447,714
;  PRIOR FILING DATE: 2003-02-14
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
;   LENGTH: 120
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-779-267-2

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RESULT 48
US-10-849-989-22
; Sequence 22, Application US/10849989
; Publication No. US20050142569A1
; GENERAL INFORMATION:
;  APPLICANT: Millennium Pharmaceuticals, Inc.
;  APPLICANT:  Guild, Braydon C.
;  APPLICANT:  Liao, Hua
;  APPLICANT:  Jones, Michael D.
;  APPLICANT:  Wu, Jiang
;  APPLICANT:  Zolg, Johannes W.
;  TITLE OF INVENTION: Compositions, Kits, and Methods for
;  TITLE OF INVENTION:  Identification, Assessment, Prevention, and Therapy of
;  TITLE OF INVENTION:  Rheumatoid Arthritis
;  FILE REFERENCE: MPI03-037P1RM
;  CURRENT APPLICATION NUMBER: US/10/849,989
;  CURRENT FILING DATE:  2004-05-20
;  PRIOR APPLICATION NUMBER: 60/472,330
;  PRIOR FILING DATE: 2003-05-21
;  NUMBER OF SEQ ID NOS: 52
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22
;   LENGTH: 120
;   TYPE: PRT
;   ORGANISM: human
US-10-849-989-22

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Qy          2 CLKFYSKI 9
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RESULT 49
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; Sequence 359, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
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;   LENGTH: 148
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US-11-021-949-359

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RESULT 50
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; Sequence 20, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
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;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 20
;   LENGTH: 153
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-20

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Qy          2 CLKFYSKI 9
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Db         69 CLLFYSKV 76


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Job time : 63 secs
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GenCore version 5.1.7
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OM protein - protein search, using sw model

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49.591 Million cell updates/sec

Title: US-08-170-344-69
Perfect score: 49
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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| 23 | 35 | 71.4 | 160 | 9 | US-10-530-253-25 | Sequence 25, Appl |
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| 27 | 35 | 71.4 | 449 | 8 | US-10-505-928-517 | Sequence 517, App |
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| 34 | 34 | 69.4 | 3116 | 9 | US-10-995-561-826 | Sequence 826, App |
| 35 | 33 | 67.3 | 9 | 9 | US-10-530-061-637 | Sequence 637, App |
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| 125 | 29 | 59.2 | 306 | 11 | US-11-052-554A-222 | Sequence 222, App |
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| 157 | 29 | 59.2 | 622 | 11 | US-11-021-441-35 | Sequence 35, Appl |
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| 162 | 29 | 59.2 | 622 | 11 | US-11-054-281-49 | Sequence 49, Appl |
| 163 | 29 | 59.2 | 622 | 11 | US-11-054-281-50 | Sequence 50, Appl |
| 164 | 29 | 59.2 | 622 | 11 | US-11-050-857-985 | Sequence 985, App |
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| 171 | 29 | 59.2 | 630 | 11 | US-11-054-281-47 | Sequence 47, Appl |
| 172 | 29 | 59.2 | 700 | 9 | US-10-501-035-314 | Sequence 314, App |
| 173 | 29 | 59.2 | 717 | 9 | US-10-511-989-32 | Sequence 32, Appl |
| 174 | 29 | 59.2 | 724 | 9 | US-10-821-234-1506 | Sequence 1506, Ap |
| 175 | 29 | 59.2 | 724 | 9 | US-10-469-469-321 | Sequence 321, App |
| 176 | 29 | 59.2 | 724 | 9 | US-10-469-469-322 | Sequence 322, App |
| 177 | 29 | 59.2 | 829 | 11 | US-11-072-512-3439 | Sequence 3439, Ap |
| 178 | 29 | 59.2 | 944 | 9 | US-10-511-989-34 | Sequence 34, Appl |
| 179 | 29 | 59.2 | 977 | 9 | US-10-511-989-149 | Sequence 149, App |
| 180 | 29 | 59.2 | 1054 | 11 | US-11-072-512-2938 | Sequence 2938, Ap |
| 181 | 29 | 59.2 | 2723 | 9 | US-10-895-064-388 | Sequence 388, App |
| 182 | 29 | 59.2 | 2723 | 11 | US-11-129-741-388 | Sequence 388, App |
| 183 | 29 | 59.2 | 2723 | 11 | US-11-129-741-3318 | Sequence 3318, Ap |
| 184 | 28 | 57.1 | 9 | 9 | US-10-530-061-78 | Sequence 78, Appl |
| 185 | 28 | 57.1 | 9 | 9 | US-10-530-061-639 | Sequence 639, App |
| 186 | 28 | 57.1 | 9 | 9 | US-10-530-061-802 | Sequence 802, App |
| 187 | 28 | 57.1 | 10 | 9 | US-10-530-061-473 | Sequence 473, App |
| 188 | 28 | 57.1 | 10 | 9 | US-10-530-061-567 | Sequence 567, App |
| 189 | 28 | 57.1 | 25 | 9 | US-10-895-064-2355 | Sequence 2355, Ap |
| 190 | 28 | 57.1 | 25 | 11 | US-11-129-741-2355 | Sequence 2355, Ap |
| 191 | 28 | 57.1 | 52 | 9 | US-10-467-657-982 | Sequence 982, App |
| 192 | 28 | 57.1 | 53 | 11 | US-11-096-568A-13165 | Sequence 13165, A |
| 193 | 28 | 57.1 | 67 | 11 | US-11-096-568A-1034 | Sequence 1034, Ap |
| 194 | 28 | 57.1 | 77 | 11 | US-11-096-568A-13164 | Sequence 13164, A |
| 195 | 28 | 57.1 | 87 | 11 | US-11-096-568A-1033 | Sequence 1033, Ap |
| 196 | 28 | 57.1 | 118 | 11 | US-11-096-568A-17968 | Sequence 17968, A |
| 197 | 28 | 57.1 | 138 | 11 | US-11-096-568A-17967 | Sequence 17967, A |
| 198 | 28 | 57.1 | 145 | 9 | US-10-498-026-38 | Sequence 38, Appl |
| 199 | 28 | 57.1 | 181 | 11 | US-11-098-686-10500 | Sequence 10500, A |
| 200 | 28 | 57.1 | 208 | 11 | US-11-087-099-1166 | Sequence 1166, Ap |
| 201 | 28 | 57.1 | 244 | 9 | US-10-506-454-225 | Sequence 225, App |
| 202 | 28 | 57.1 | 244 | 11 | US-11-188-298-7999 | Sequence 7999, Ap |
| 203 | 28 | 57.1 | 252 | 9 | US-10-506-454-818 | Sequence 818, App |
| 204 | 28 | 57.1 | 256 | 11 | US-11-188-298-5945 | Sequence 5945, Ap |
| 205 | 28 | 57.1 | 276 | 9 | US-10-467-657-2502 | Sequence 2502, Ap |
| 206 | 28 | 57.1 | 283 | 11 | US-11-096-568A-10999 | Sequence 10999, A |
| 207 | 28 | 57.1 | 302 | 11 | US-11-096-568A-26115 | Sequence 26115, A |
| 208 | 28 | 57.1 | 304 | 11 | US-11-079-463-7891 | Sequence 7891, Ap |
| 209 | 28 | 57.1 | 306 | 11 | US-11-172-740-327 | Sequence 327, App |
| 210 | 28 | 57.1 | 321 | 9 | US-10-055-877-338 | Sequence 338, App |
| 211 | 28 | 57.1 | 333 | 11 | US-11-096-568A-1953 | Sequence 1953, Ap |
| 212 | 28 | 57.1 | 339 | 11 | US-11-188-298-20460 | Sequence 20460, A |
| 213 | 28 | 57.1 | 340 | 11 | US-11-096-568A-27422 | Sequence 27422, A |
| 214 | 28 | 57.1 | 343 | 11 | US-11-096-568A-1952 | Sequence 1952, Ap |
| 215 | 28 | 57.1 | 356 | 11 | US-11-098-686-10674 | Sequence 10674, A |
| 216 | 28 | 57.1 | 367 | 11 | US-11-188-298-12517 | Sequence 12517, A |
| 217 | 28 | 57.1 | 370 | 9 | US-10-821-234-1502 | Sequence 1502, Ap |
| 218 | 28 | 57.1 | 375 | 11 | US-11-079-463-9485 | Sequence 9485, Ap |
| 219 | 28 | 57.1 | 378 | 9 | US-10-507-720-16 | Sequence 16, Appl |
| 220 | 28 | 57.1 | 379 | 11 | US-11-188-298-7404 | Sequence 7404, Ap |
| 221 | 28 | 57.1 | 384 | 11 | US-11-072-175-204 | Sequence 204, App |
| 222 | 28 | 57.1 | 395 | 9 | US-10-467-657-4484 | Sequence 4484, Ap |
| 223 | 28 | 57.1 | 398 | 11 | US-11-096-568A-26114 | Sequence 26114, A |
| 224 | 28 | 57.1 | 406 | 9 | US-10-506-454-1392 | Sequence 1392, Ap |
| 225 | 28 | 57.1 | 412 | 11 | US-11-188-298-945 | Sequence 945, App |
| 226 | 28 | 57.1 | 419 | 11 | US-11-079-463-6777 | Sequence 6777, Ap |
| 227 | 28 | 57.1 | 420 | 11 | US-11-072-512-3015 | Sequence 3015, Ap |
| 228 | 28 | 57.1 | 424 | 11 | US-11-096-568A-10998 | Sequence 10998, A |
| 229 | 28 | 57.1 | 440 | 11 | US-11-054-168B-16 | Sequence 16, Appl |
| 230 | 28 | 57.1 | 449 | 11 | US-11-096-568A-10997 | Sequence 10997, A |
| 231 | 28 | 57.1 | 454 | 11 | US-11-096-568A-26113 | Sequence 26113, A |
| 232 | 28 | 57.1 | 461 | 11 | US-11-096-568A-2230 | Sequence 2230, Ap |
| 233 | 28 | 57.1 | 476 | 11 | US-11-188-298-14178 | Sequence 14178, A |
| 234 | 28 | 57.1 | 477 | 11 | US-11-045-004-2528 | Sequence 2528, Ap |
| 235 | 28 | 57.1 | 481 | 11 | US-11-227-177-1 | Sequence 1, Appli |
| 236 | 28 | 57.1 | 485 | 9 | US-10-204-029-7 | Sequence 7, Appli |
| 237 | 28 | 57.1 | 486 | 11 | US-11-045-004-686 | Sequence 686, App |
| 238 | 28 | 57.1 | 532 | 11 | US-11-096-568A-2229 | Sequence 2229, Ap |
| 239 | 28 | 57.1 | 561 | 11 | US-11-096-568A-2228 | Sequence 2228, Ap |
| 240 | 28 | 57.1 | 565 | 11 | US-11-098-686-11137 | Sequence 11137, A |

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| 241 | 28 | 57.1 | 566 | 9 | US-10-718-264-21 | Sequence 21, Appl |
| 242 | 28 | 57.1 | 566 | 9 | US-10-718-264-21 | Sequence 21, Appl |
| 243 | 28 | 57.1 | 566 | 11 | US-11-176-667-21 | Sequence 21, Appl |
| 244 | 28 | 57.1 | 590 | 11 | US-11-079-463-6352 | Sequence 6352, Ap |
| 245 | 28 | 57.1 | 611 | 11 | US-11-188-298-463 | Sequence 463, App |
| 246 | 28 | 57.1 | 615 | 11 | US-11-172-145-6 | Sequence 6, Appli |
| 247 | 28 | 57.1 | 617 | 11 | US-11-172-145-8 | Sequence 8, Appli |
| 248 | 28 | 57.1 | 626 | 11 | US-11-188-298-298 | Sequence 298, App |
| 249 | 28 | 57.1 | 722 | 9 | US-10-793-626-1230 | Sequence 1230, Ap |
| 250 | 28 | 57.1 | 759 | 11 | US-11-188-298-8565 | Sequence 8565, Ap |
| 251 | 28 | 57.1 | 759 | 11 | US-11-188-298-17719 | Sequence 17719, A |
| 252 | 28 | 57.1 | 763 | 11 | US-11-188-298-12698 | Sequence 12698, A |
| 253 | 28 | 57.1 | 814 | 9 | US-10-878-556A-161 | Sequence 161, App |
| 254 | 28 | 57.1 | 814 | 9 | US-10-538-471-4 | Sequence 4, Appli |
| 255 | 28 | 57.1 | 842 | 11 | US-11-096-568A-31636 | Sequence 31636, A |
| 256 | 28 | 57.1 | 850 | 11 | US-11-096-568A-31635 | Sequence 31635, A |
| 257 | 28 | 57.1 | 897 | 11 | US-11-096-568A-31634 | Sequence 31634, A |
| 258 | 28 | 57.1 | 912 | 9 | US-10-501-035-372 | Sequence 372, App |
| 259 | 28 | 57.1 | 918 | 11 | US-11-024-959-492 | Sequence 492, App |
| 260 | 28 | 57.1 | 962 | 11 | US-11-188-298-4460 | Sequence 4460, Ap |
| 261 | 28 | 57.1 | 966 | 11 | US-11-188-298-9809 | Sequence 9809, Ap |
| 262 | 28 | 57.1 | 966 | 11 | US-11-188-298-16089 | Sequence 16089, A |
| 263 | 28 | 57.1 | 971 | 11 | US-11-188-298-4425 | Sequence 4425, Ap |
| 264 | 28 | 57.1 | 1724 | 11 | US-11-096-568A-32051 | Sequence 32051, A |
| 265 | 28 | 57.1 | 1730 | 11 | US-11-096-568A-32050 | Sequence 32050, A |
| 266 | 28 | 57.1 | 1757 | 11 | US-11-096-568A-32049 | Sequence 32049, A |
| 267 | 28 | 57.1 | 1897 | 11 | US-11-096-568A-28325 | Sequence 28325, A |
| 268 | 28 | 57.1 | 1927 | 11 | US-11-087-099-5472 | Sequence 5472, Ap |
| 269 | 28 | 57.1 | 2065 | 11 | US-11-096-568A-28324 | Sequence 28324, A |
| 270 | 28 | 57.1 | 2154 | 11 | US-11-096-568A-28323 | Sequence 28323, A |
| 271 | 27 | 55.1 | 9 | 9 | US-10-530-061-640 | Sequence 640, App |
| 272 | 27 | 55.1 | 10 | 9 | US-10-530-061-525 | Sequence 525, App |
| 273 | 27 | 55.1 | 10 | 9 | US-10-530-061-537 | Sequence 537, App |
| 274 | 27 | 55.1 | 11 | 9 | US-10-530-061-496 | Sequence 496, App |
| 275 | 27 | 55.1 | 11 | 11 | US-11-004-399-3031 | Sequence 3031, Ap |
| 276 | 27 | 55.1 | 26 | 9 | US-10-973-977-30 | Sequence 30, Appl |
| 277 | 27 | 55.1 | 31 | 11 | US-11-096-568A-8505 | Sequence 8505, Ap |
| 278 | 27 | 55.1 | 48 | 9 | US-10-467-657-376 | Sequence 376, App |
| 279 | 27 | 55.1 | 105 | 9 | US-10-475-075-317 | Sequence 317, App |
| 280 | 27 | 55.1 | 105 | 9 | US-10-475-075-555 | Sequence 555, App |
| 281 | 27 | 55.1 | 128 | 11 | US-11-045-004-2836 | Sequence 2836, Ap |
| 282 | 27 | 55.1 | 133 | 11 | US-11-050-857-782 | Sequence 782, App |
| 283 | 27 | 55.1 | 149 | 9 | US-10-530-253-24 | Sequence 24, Appl |
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| 285 | 27 | 55.1 | 157 | 11 | US-11-172-740-194 | Sequence 194, App |
| 286 | 27 | 55.1 | 157 | 11 | US-11-045-004-2748 | Sequence 2748, Ap |
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| 288 | 27 | 55.1 | 163 | 11 | US-11-079-463-6596 | Sequence 6596, Ap |
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| 290 | 27 | 55.1 | 186 | 11 | US-11-044-899-21 | Sequence 21, Appl |
| 291 | 27 | 55.1 | 191 | 11 | US-11-217-710-2 | Sequence 2, Appli |
| 292 | 27 | 55.1 | 192 | 11 | US-11-087-099-1347 | Sequence 1347, Ap |
| 293 | 27 | 55.1 | 205 | 11 | US-11-188-298-19558 | Sequence 19558, A |
| 294 | 27 | 55.1 | 207 | 11 | US-11-096-568A-17934 | Sequence 17934, A |
| 295 | 27 | 55.1 | 227 | 9 | US-10-467-657-2624 | Sequence 2624, Ap |
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| 299 | 27 | 55.1 | 249 | 11 | US-11-045-004-1079 | Sequence 1079, Ap |
| 300 | 27 | 55.1 | 271 | 11 | US-11-045-004-2128 | Sequence 2128, Ap |
| 301 | 27 | 55.1 | 278 | 11 | US-11-045-004-256 | Sequence 256, App |
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| 304 | 27 | 55.1 | 281 | 11 | US-11-087-099-6234 | Sequence 6234, Ap |
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| 306 | 27 | 55.1 | 289 | 9 | US-10-793-626-3312 | Sequence 3312, Ap |
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| 308 | 27 | 55.1 | 295 | 9 | US-10-784-004-739 | Sequence 739, App |
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| 310 | 27 | 55.1 | 302 | 11 | US-11-087-099-302 | Sequence 302, App |
| 311 | 27 | 55.1 | 303 | 11 | US-11-058-924-5 | Sequence 5, Appli |
| 312 | 27 | 55.1 | 303 | 11 | US-11-096-568A-27107 | Sequence 27107, A |
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| 315 | 27 | 55.1 | 316 | 11 | US-11-058-924-2 | Sequence 2, Appli |
| 316 | 27 | 55.1 | 316 | 11 | US-11-188-298-6259 | Sequence 6259, Ap |
| 317 | 27 | 55.1 | 320 | 11 | US-11-087-099-3546 | Sequence 3546, Ap |
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| 320 | 27 | 55.1 | 332 | 11 | US-11-174-819-3 | Sequence 3, Appli |
| 321 | 27 | 55.1 | 332 | 11 | US-11-217-710-37 | Sequence 37, Appl |
| 322 | 27 | 55.1 | 339 | 11 | US-11-127-877-49 | Sequence 49, Appl |
| 323 | 27 | 55.1 | 339 | 11 | US-11-174-816-3 | Sequence 3, Appli |
| 324 | 27 | 55.1 | 339 | 11 | US-11-174-819-67 | Sequence 67, Appl |
| 325 | 27 | 55.1 | 339 | 11 | US-11-174-751-3 | Sequence 3, Appli |
| 326 | 27 | 55.1 | 339 | 11 | US-11-174-751-46 | Sequence 46, Appl |
| 327 | 27 | 55.1 | 339 | 11 | US-11-217-710-6 | Sequence 6, Appli |
| 328 | 27 | 55.1 | 342 | 11 | US-11-087-099-2226 | Sequence 2226, Ap |
| 329 | 27 | 55.1 | 342 | 11 | US-11-188-298-2168 | Sequence 2168, Ap |
| 330 | 27 | 55.1 | 344 | 11 | US-11-045-004-1933 | Sequence 1933, Ap |
| 331 | 27 | 55.1 | 348 | 11 | US-11-096-568A-16451 | Sequence 16451, A |
| 332 | 27 | 55.1 | 348 | 11 | US-11-096-568A-20008 | Sequence 20008, A |
| 333 | 27 | 55.1 | 356 | 11 | US-11-096-568A-20880 | Sequence 20880, A |
| 334 | 27 | 55.1 | 357 | 11 | US-11-096-568A-9630 | Sequence 9630, Ap |
| 335 | 27 | 55.1 | 361 | 11 | US-11-120-308-82 | Sequence 82, Appl |
| 336 | 27 | 55.1 | 364 | 11 | US-11-188-298-21267 | Sequence 21267, A |
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| 338 | 27 | 55.1 | 376 | 9 | US-10-501-035-283 | Sequence 283, App |
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| 341 | 27 | 55.1 | 378 | 11 | US-11-079-463-6183 | Sequence 6183, Ap |
| 342 | 27 | 55.1 | 379 | 11 | US-11-096-568A-16450 | Sequence 16450, A |
| 343 | 27 | 55.1 | 382 | 11 | US-11-096-568A-25897 | Sequence 25897, A |
| 344 | 27 | 55.1 | 391 | 11 | US-11-087-099-10130 | Sequence 10130, A |
| 345 | 27 | 55.1 | 395 | 11 | US-11-188-298-9627 | Sequence 9627, Ap |
| 346 | 27 | 55.1 | 396 | 11 | US-11-096-568A-9628 | Sequence 9628, Ap |
| 347 | 27 | 55.1 | 396 | 11 | US-11-096-568A-33127 | Sequence 33127, A |
| 348 | 27 | 55.1 | 414 | 11 | US-11-096-568A-20879 | Sequence 20879, A |
| 349 | 27 | 55.1 | 425 | 11 | US-11-188-298-3249 | Sequence 3249, Ap |
| 350 | 27 | 55.1 | 428 | 11 | US-11-087-099-12341 | Sequence 12341, A |
| 351 | 27 | 55.1 | 432 | 11 | US-11-096-568A-32217 | Sequence 32217, A |
| 352 | 27 | 55.1 | 445 | 11 | US-11-054-168B-9 | Sequence 9, Appli |
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| 354 | 27 | 55.1 | 477 | 11 | US-11-087-099-8801 | Sequence 8801, Ap |
| 355 | 27 | 55.1 | 480 | 11 | US-11-087-099-309 | Sequence 309, App |
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| 358 | 27 | 55.1 | 484 | 11 | US-11-072-512-3381 | Sequence 3381, Ap |
| 359 | 27 | 55.1 | 486 | 11 | US-11-087-099-9830 | Sequence 9830, Ap |
| 360 | 27 | 55.1 | 489 | 11 | US-11-087-099-11471 | Sequence 11471, A |
| 361 | 27 | 55.1 | 491 | 11 | US-11-087-099-252 | Sequence 252, App |
| 362 | 27 | 55.1 | 491 | 11 | US-11-087-099-6813 | Sequence 6813, Ap |
| 363 | 27 | 55.1 | 493 | 11 | US-11-079-463-8790 | Sequence 8790, Ap |
| 364 | 27 | 55.1 | 496 | 11 | US-11-188-298-586 | Sequence 586, App |
| 365 | 27 | 55.1 | 496 | 11 | US-11-188-298-2032 | Sequence 2032, Ap |
| 366 | 27 | 55.1 | 498 | 11 | US-11-188-298-1166 | Sequence 1166, Ap |
| 367 | 27 | 55.1 | 500 | 11 | US-11-087-099-9861 | Sequence 9861, Ap |
| 368 | 27 | 55.1 | 501 | 11 | US-11-096-568A-32216 | Sequence 32216, A |
| 369 | 27 | 55.1 | 502 | 11 | US-11-087-099-9288 | Sequence 9288, Ap |
| 370 | 27 | 55.1 | 502 | 11 | US-11-188-298-6931 | Sequence 6931, Ap |
| 371 | 27 | 55.1 | 503 | 9 | US-10-878-556A-2 | Sequence 2, Appli |
| 372 | 27 | 55.1 | 503 | 9 | US-10-934-944-150 | Sequence 150, App |
| 373 | 27 | 55.1 | 503 | 9 | US-10-934-944-152 | Sequence 152, App |
| 374 | 27 | 55.1 | 503 | 9 | US-10-934-944-192 | Sequence 192, App |
| 375 | 27 | 55.1 | 503 | 9 | US-10-934-944-198 | Sequence 198, App |
| 376 | 27 | 55.1 | 503 | 9 | US-10-934-944-200 | Sequence 200, App |
| 377 | 27 | 55.1 | 503 | 9 | US-10-934-944-262 | Sequence 262, App |
| 378 | 27 | 55.1 | 503 | 11 | US-11-087-099-1265 | Sequence 1265, Ap |
| 379 | 27 | 55.1 | 503 | 11 | US-11-116-881A-159 | Sequence 159, App |
| 380 | 27 | 55.1 | 503 | 11 | US-11-116-881A-161 | Sequence 161, App |
| 381 | 27 | 55.1 | 503 | 11 | US-11-116-881A-201 | Sequence 201, App |
| 382 | 27 | 55.1 | 503 | 11 | US-11-116-881A-207 | Sequence 207, App |
| 383 | 27 | 55.1 | 503 | 11 | US-11-116-881A-209 | Sequence 209, App |
| 384 | 27 | 55.1 | 503 | 11 | US-11-116-881A-271 | Sequence 271, App |
| 385 | 27 | 55.1 | 504 | 9 | US-10-934-944-196 | Sequence 196, App |
| 386 | 27 | 55.1 | 504 | 11 | US-11-116-881A-205 | Sequence 205, App |

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| 387 | 27 | 55.1 | 504 | 11 | US-11-232-440-37 | Sequence 37, Appl |
| 388 | 27 | 55.1 | 509 | 9 | US-10-501-035-316 | Sequence 316, App |
| 389 | 27 | 55.1 | 523 | 11 | US-11-096-568A-25956 | Sequence 25956, A |
| 390 | 27 | 55.1 | 523 | 11 | US-11-079-463-6629 | Sequence 6629, Ap |
| 391 | 27 | 55.1 | 525 | 11 | US-11-188-298-2025 | Sequence 2025, Ap |
| 392 | 27 | 55.1 | 529 | 11 | US-11-087-099-1839 | Sequence 1839, Ap |
| 393 | 27 | 55.1 | 534 | 8 | US-10-505-928-385 | Sequence 385, App |
| 394 | 27 | 55.1 | 562 | 11 | US-11-033-039-1345 | Sequence 1345, Ap |
| 395 | 27 | 55.1 | 564 | 11 | US-11-133-360-11 | Sequence 11, Appl |
| 396 | 27 | 55.1 | 564 | 11 | US-11-133-360-13 | Sequence 13, Appl |
| 397 | 27 | 55.1 | 564 | 11 | US-11-133-360-15 | Sequence 15, Appl |
| 398 | 27 | 55.1 | 564 | 11 | US-11-133-360-17 | Sequence 17, Appl |
| 399 | 27 | 55.1 | 564 | 11 | US-11-033-039-1209 | Sequence 1209, Ap |
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| 401 | 27 | 55.1 | 564 | 11 | US-11-133-346-13 | Sequence 13, Appl |
| 402 | 27 | 55.1 | 564 | 11 | US-11-133-346-15 | Sequence 15, Appl |
| 403 | 27 | 55.1 | 564 | 11 | US-11-133-346-17 | Sequence 17, Appl |
| 404 | 27 | 55.1 | 568 | 11 | US-11-033-039-1154 | Sequence 1154, Ap |
| 405 | 27 | 55.1 | 568 | 11 | US-11-131-479-20 | Sequence 20, Appl |
| 406 | 27 | 55.1 | 570 | 11 | US-11-072-512-2718 | Sequence 2718, Ap |
| 407 | 27 | 55.1 | 574 | 11 | US-11-096-568A-25955 | Sequence 25955, A |
| 408 | 27 | 55.1 | 584 | 11 | US-11-024-959-380 | Sequence 380, App |
| 409 | 27 | 55.1 | 600 | 11 | US-11-096-568A-32215 | Sequence 32215, A |
| 410 | 27 | 55.1 | 635 | 11 | US-11-096-568A-24807 | Sequence 24807, A |
| 411 | 27 | 55.1 | 635 | 11 | US-11-188-298-18095 | Sequence 18095, A |
| 412 | 27 | 55.1 | 637 | 11 | US-11-188-298-2792 | Sequence 2792, Ap |
| 413 | 27 | 55.1 | 715 | 11 | US-11-087-099-2922 | Sequence 2922, Ap |
| 414 | 27 | 55.1 | 716 | 11 | US-11-096-568A-24806 | Sequence 24806, A |
| 415 | 27 | 55.1 | 717 | 9 | US-10-624-932-12 | Sequence 12, Appl |
| 416 | 27 | 55.1 | 725 | 11 | US-11-188-298-8443 | Sequence 8443, Ap |
| 417 | 27 | 55.1 | 733 | 11 | US-11-079-463-9713 | Sequence 9713, Ap |
| 418 | 27 | 55.1 | 742 | 11 | US-11-096-568A-24805 | Sequence 24805, A |
| 419 | 27 | 55.1 | 745 | 11 | US-11-188-298-5540 | Sequence 5540, Ap |
| 420 | 27 | 55.1 | 753 | 11 | US-11-188-298-13799 | Sequence 13799, A |
| 421 | 27 | 55.1 | 762 | 11 | US-11-188-298-11787 | Sequence 11787, A |
| 422 | 27 | 55.1 | 791 | 11 | US-11-087-099-7833 | Sequence 7833, Ap |
| 423 | 27 | 55.1 | 792 | 11 | US-11-087-099-1215 | Sequence 1215, Ap |
| 424 | 27 | 55.1 | 792 | 11 | US-11-188-298-9334 | Sequence 9334, Ap |
| 425 | 27 | 55.1 | 792 | 11 | US-11-188-298-12170 | Sequence 12170, A |
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| 427 | 27 | 55.1 | 815 | 11 | US-11-079-463-10436 | Sequence 10436, A |
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| 429 | 27 | 55.1 | 831 | 11 | US-11-188-298-22164 | Sequence 22164, A |
| 430 | 27 | 55.1 | 839 | 11 | US-11-188-298-9565 | Sequence 9565, Ap |
| 431 | 27 | 55.1 | 857 | 11 | US-11-264-096-1358 | Sequence 1358, Ap |
| 432 | 27 | 55.1 | 864 | 11 | US-11-096-568A-2472 | Sequence 2472, Ap |
| 433 | 27 | 55.1 | 879 | 11 | US-11-096-568A-2471 | Sequence 2471, Ap |
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| 435 | 27 | 55.1 | 923 | 11 | US-11-087-099-9592 | Sequence 9592, Ap |
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| 437 | 27 | 55.1 | 928 | 11 | US-11-188-298-10379 | Sequence 10379, A |
| 438 | 27 | 55.1 | 928 | 11 | US-11-188-298-14345 | Sequence 14345, A |
| 439 | 27 | 55.1 | 937 | 11 | US-11-188-298-14566 | Sequence 14566, A |
| 440 | 27 | 55.1 | 951 | 11 | US-11-188-298-10424 | Sequence 10424, A |
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| 445 | 27 | 55.1 | 988 | 9 | US-10-472-808A-4 | Sequence 4, Appli |
| 446 | 27 | 55.1 | 988 | 9 | US-10-472-808A-5 | Sequence 5, Appli |
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| 448 | 27 | 55.1 | 1275 | 11 | US-11-188-298-12889 | Sequence 12889, A |
| 449 | 27 | 55.1 | 1306 | 11 | US-11-188-298-7550 | Sequence 7550, Ap |
| 450 | 27 | 55.1 | 1314 | 11 | US-11-188-298-10858 | Sequence 10858, A |
| 451 | 27 | 55.1 | 1401 | 11 | US-11-188-298-13416 | Sequence 13416, A |
| 452 | 27 | 55.1 | 1456 | 8 | US-10-505-928-69 | Sequence 69, Appl |
| 453 | 27 | 55.1 | 1609 | 11 | US-11-072-175-185 | Sequence 185, App |
| 454 | 27 | 55.1 | 1771 | 9 | US-10-506-454-1532 | Sequence 1532, Ap |
| 455 | 27 | 55.1 | 2053 | 9 | US-10-877-346-11 | Sequence 11, Appl |
| 456 | 27 | 55.1 | 2066 | 9 | US-10-877-346-9 | Sequence 9, Appli |
| 457 | 27 | 55.1 | 2250 | 9 | US-10-922-232B-57 | Sequence 57, Appl |
| 458 | 27 | 55.1 | 2323 | 9 | US-10-793-626-760 | Sequence 760, App |
| 459 | 27 | 55.1 | 4060 | 9 | US-10-922-232B-55 | Sequence 55, Appl |
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| 467 | 26.5 | 54.1 | 346 | 11 | US-11-087-099-11942 | Sequence 11942, A |
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| 473 | 26 | 53.1 | 12 | 11 | US-11-129-741-3751 | Sequence 3751, Ap |
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| 475 | 26 | 53.1 | 18 | 11 | US-11-153-143A-110 | Sequence 110, App |
| 476 | 26 | 53.1 | 19 | 11 | US-11-174-186-39 | Sequence 39, Appl |
| 477 | 26 | 53.1 | 40 | 11 | US-11-004-399-144 | Sequence 144, App |
| 478 | 26 | 53.1 | 40 | 11 | US-11-004-399-514 | Sequence 514, App |
| 479 | 26 | 53.1 | 40 | 11 | US-11-004-399-3769 | Sequence 3769, Ap |
| 480 | 26 | 53.1 | 57 | 9 | US-10-986-501-185 | Sequence 185, App |
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| 484 | 26 | 53.1 | 68 | 11 | US-11-188-298-15967 | Sequence 15967, A |
| 485 | 26 | 53.1 | 73 | 11 | US-11-264-096-1429 | Sequence 1429, Ap |
| 486 | 26 | 53.1 | 79 | 11 | US-11-000-463-926 | Sequence 926, App |
| 487 | 26 | 53.1 | 80 | 11 | US-11-144-947-578 | Sequence 578, App |
| 488 | 26 | 53.1 | 89 | 11 | US-11-079-463-6333 | Sequence 6333, Ap |
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| 495 | 26 | 53.1 | 116 | 11 | US-11-174-186-6 | Sequence 6, Appli |
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| 497 | 26 | 53.1 | 116 | 11 | US-11-174-186-18 | Sequence 18, Appl |
| 498 | 26 | 53.1 | 116 | 11 | US-11-174-186-19 | Sequence 19, Appl |
| 499 | 26 | 53.1 | 116 | 11 | US-11-174-186-20 | Sequence 20, Appl |
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| 501 | 26 | 53.1 | 116 | 11 | US-11-174-186-22 | Sequence 22, Appl |
| 502 | 26 | 53.1 | 116 | 11 | US-11-174-186-23 | Sequence 23, Appl |
| 503 | 26 | 53.1 | 116 | 11 | US-11-174-186-24 | Sequence 24, Appl |
| 504 | 26 | 53.1 | 116 | 11 | US-11-174-186-25 | Sequence 25, Appl |
| 505 | 26 | 53.1 | 116 | 11 | US-11-174-186-26 | Sequence 26, Appl |
| 506 | 26 | 53.1 | 117 | 11 | US-11-174-186-35 | Sequence 35, Appl |
| 507 | 26 | 53.1 | 131 | 11 | US-11-188-298-20016 | Sequence 20016, A |
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| 514 | 26 | 53.1 | 182 | 11 | US-11-087-099-3760 | Sequence 3760, Ap |
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| 520 | 26 | 53.1 | 196 | 11 | US-11-096-568A-3922 | Sequence 3922, Ap |
| 521 | 26 | 53.1 | 196 | 11 | US-11-096-568A-5098 | Sequence 5098, Ap |
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| 531 | 26 | 53.1 | 219 | 11 | US-11-087-099-10847 | Sequence 10847, A |
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| 537 | 26 | 53.1 | 227 | 11 | US-11-188-298-20868 | Sequence 20868, A |
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| 539 | 26 | 53.1 | 236 | 9 | US-10-453-372-1032 | Sequence 1032, Ap |
| 540 | 26 | 53.1 | 236 | 9 | US-10-453-372-1036 | Sequence 1036, Ap |
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| 553 | 26 | 53.1 | 295 | 11 | US-11-172-740-323 | Sequence 323, App |
| 554 | 26 | 53.1 | 298 | 11 | US-11-172-740-1107 | Sequence 1107, Ap |
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| 556 | 26 | 53.1 | 299 | 11 | US-11-096-568A-17159 | Sequence 17159, A |
| 557 | 26 | 53.1 | 299 | 11 | US-11-172-740-325 | Sequence 325, App |
| 558 | 26 | 53.1 | 300 | 11 | US-11-172-740-324 | Sequence 324, App |
| 559 | 26 | 53.1 | 308 | 11 | US-11-188-298-17701 | Sequence 17701, A |
| 560 | 26 | 53.1 | 309 | 11 | US-11-096-568A-21788 | Sequence 21788, A |
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| 649 | 26 | 53.1 | 505 | 9 | US-10-219-064-30 | Sequence 30, Appl |
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| 654 | 26 | 53.1 | 511 | 11 | US-11-188-298-404 | Sequence 404, App |
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| 656 | 26 | 53.1 | 527 | 8 | US-10-505-928-266 | Sequence 266, App |
| 657 | 26 | 53.1 | 527 | 9 | US-10-821-234-1574 | Sequence 1574, Ap |
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| 679 | 26 | 53.1 | 623 | 11 | US-11-072-512-3512 | Sequence 3512, Ap |
| 680 | 26 | 53.1 | 623 | 11 | US-11-188-298-5434 | Sequence 5434, Ap |
| 681 | 26 | 53.1 | 623 | 11 | US-11-188-298-14730 | Sequence 14730, A |
| 682 | 26 | 53.1 | 623 | 11 | US-11-188-298-16174 | Sequence 16174, A |
| 683 | 26 | 53.1 | 629 | 11 | US-11-188-298-14809 | Sequence 14809, A |
| 684 | 26 | 53.1 | 630 | 11 | US-11-188-298-19340 | Sequence 19340, A |
| 685 | 26 | 53.1 | 633 | 11 | US-11-096-568A-30372 | Sequence 30372, A |
| 686 | 26 | 53.1 | 635 | 9 | US-10-821-234-1573 | Sequence 1573, Ap |
| 687 | 26 | 53.1 | 635 | 11 | US-11-188-298-20118 | Sequence 20118, A |
| 688 | 26 | 53.1 | 641 | 11 | US-11-090-617-690 | Sequence 690, App |
| 689 | 26 | 53.1 | 645 | 11 | US-11-188-298-8069 | Sequence 8069, Ap |
| 690 | 26 | 53.1 | 647 | 11 | US-11-188-298-11975 | Sequence 11975, A |
| 691 | 26 | 53.1 | 679 | 11 | US-11-079-463-7773 | Sequence 7773, Ap |
| 692 | 26 | 53.1 | 681 | 11 | US-11-188-298-17684 | Sequence 17684, A |
| 693 | 26 | 53.1 | 714 | 11 | US-11-079-463-6890 | Sequence 6890, Ap |
| 694 | 26 | 53.1 | 725 | 9 | US-10-469-469-324 | Sequence 324, App |
| 695 | 26 | 53.1 | 732 | 9 | US-10-469-469-318 | Sequence 318, App |
| 696 | 26 | 53.1 | 732 | 11 | US-11-187-230-21 | Sequence 21, Appl |
| 697 | 26 | 53.1 | 733 | 9 | US-10-469-469-328 | Sequence 328, App |
| 698 | 26 | 53.1 | 748 | 9 | US-10-455-772-300 | Sequence 300, App |
| 699 | 26 | 53.1 | 754 | 9 | US-10-793-626-1296 | Sequence 1296, Ap |
| 700 | 26 | 53.1 | 754 | 9 | US-10-455-772-294 | Sequence 294, App |
| 701 | 26 | 53.1 | 754 | 9 | US-10-455-772-298 | Sequence 298, App |
| 702 | 26 | 53.1 | 755 | 9 | US-10-455-772-290 | Sequence 290, App |
| 703 | 26 | 53.1 | 755 | 9 | US-10-455-772-302 | Sequence 302, App |
| 704 | 26 | 53.1 | 755 | 9 | US-10-455-772-304 | Sequence 304, App |
| 705 | 26 | 53.1 | 755 | 11 | US-11-188-298-8273 | Sequence 8273, Ap |
| 706 | 26 | 53.1 | 756 | 9 | US-10-455-772-296 | Sequence 296, App |
| 707 | 26 | 53.1 | 777 | 9 | US-10-455-772-938 | Sequence 938, App |
| 708 | 26 | 53.1 | 778 | 9 | US-10-455-772-292 | Sequence 292, App |
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| 711 | 26 | 53.1 | 867 | 11 | US-11-072-512-3052 | Sequence 3052, Ap |
| 712 | 26 | 53.1 | 891 | 11 | US-11-182-016-38 | Sequence 38, Appl |
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| 715 | 26 | 53.1 | 917 | 11 | US-11-169-041-145 | Sequence 145, App |
| 716 | 26 | 53.1 | 932 | 11 | US-11-096-568A-29846 | Sequence 29846, A |
| 717 | 26 | 53.1 | 962 | 9 | US-10-853-807A-51 | Sequence 51, Appl |
| 718 | 26 | 53.1 | 1062 | 11 | US-11-188-298-7278 | Sequence 7278, Ap |
| 719 | 26 | 53.1 | 1102 | 11 | US-11-087-099-12330 | Sequence 12330, A |
| 720 | 26 | 53.1 | 1268 | 9 | US-10-995-561-918 | Sequence 918, App |
| 721 | 26 | 53.1 | 1268 | 9 | US-10-995-561-919 | Sequence 919, App |
| 722 | 26 | 53.1 | 1268 | 9 | US-10-995-561-920 | Sequence 920, App |
| 723 | 26 | 53.1 | 1372 | 11 | US-11-087-099-3054 | Sequence 3054, Ap |
| 724 | 26 | 53.1 | 1372 | 11 | US-11-188-298-13921 | Sequence 13921, A |
| 725 | 26 | 53.1 | 1637 | 9 | US-10-821-234-1204 | Sequence 1204, Ap |
| 726 | 26 | 53.1 | 1664 | 11 | US-11-188-298-13722 | Sequence 13722, A |
| 727 | 26 | 53.1 | 2139 | 11 | US-11-087-099-2279 | Sequence 2279, Ap |
| 728 | 26 | 53.1 | 2910 | 11 | US-11-087-100-2 | Sequence 2, Appli |
| 729 | 26 | 53.1 | 2910 | 11 | US-11-087-084-2 | Sequence 2, Appli |
| 730 | 26 | 53.1 | 2910 | 11 | US-11-087-085-2 | Sequence 2, Appli |
| 731 | 26 | 53.1 | 3375 | 11 | US-11-044-111-23 | Sequence 23, Appl |
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| 733 | 26 | 53.1 | 3685 | 11 | US-11-055-497A-8 | Sequence 8, Appli |
| 734 | 26 | 53.1 | 8746 | 11 | US-11-098-686-10232 | Sequence 10232, A |
| 735 | 25.5 | 52.0 | 236 | 11 | US-11-096-568A-5599 | Sequence 5599, Ap |
| 736 | 25.5 | 52.0 | 384 | 11 | US-11-087-099-6796 | Sequence 6796, Ap |
| 737 | 25.5 | 52.0 | 407 | 11 | US-11-087-099-2775 | Sequence 2775, Ap |
| 738 | 25.5 | 52.0 | 413 | 11 | US-11-188-298-3235 | Sequence 3235, Ap |
| 739 | 25.5 | 52.0 | 413 | 11 | US-11-188-298-15320 | Sequence 15320, A |
| 740 | 25 | 51.0 | 8 | 9 | US-10-530-061-847 | Sequence 847, App |
| 741 | 25 | 51.0 | 9 | 9 | US-10-895-064-1274 | Sequence 1274, Ap |
| 742 | 25 | 51.0 | 9 | 9 | US-10-530-061-840 | Sequence 840, App |
| 743 | 25 | 51.0 | 9 | 11 | US-11-129-741-1274 | Sequence 1274, Ap |
| 744 | 25 | 51.0 | 10 | 9 | US-10-530-061-68 | Sequence 68, Appl |
| 745 | 25 | 51.0 | 10 | 9 | US-10-530-061-503 | Sequence 503, App |
| 746 | 25 | 51.0 | 10 | 9 | US-10-530-061-590 | Sequence 590, App |
| 747 | 25 | 51.0 | 10 | 9 | US-10-530-061-792 | Sequence 792, App |
| 748 | 25 | 51.0 | 10 | 9 | US-10-530-061-796 | Sequence 796, App |
| 749 | 25 | 51.0 | 18 | 9 | US-10-947-071-88 | Sequence 88, Appl |
| 750 | 25 | 51.0 | 18 | 9 | US-10-948-097-88 | Sequence 88, Appl |
| 751 | 25 | 51.0 | 26 | 11 | US-11-264-096-945 | Sequence 945, App |
| 752 | 25 | 51.0 | 36 | 9 | US-10-957-351-99 | Sequence 99, Appl |
| 753 | 25 | 51.0 | 36 | 9 | US-10-957-351-166 | Sequence 166, App |
| 754 | 25 | 51.0 | 41 | 9 | US-10-986-501-286 | Sequence 286, App |
| 755 | 25 | 51.0 | 42 | 11 | US-11-004-399-1275 | Sequence 1275, Ap |
| 756 | 25 | 51.0 | 44 | 9 | US-10-467-657-8902 | Sequence 8902, Ap |
| 757 | 25 | 51.0 | 48 | 9 | US-10-467-657-9156 | Sequence 9156, Ap |
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| 759 | 25 | 51.0 | 60 | 11 | US-11-079-463-6612 | Sequence 6612, Ap |
| 760 | 25 | 51.0 | 64 | 11 | US-11-000-463-259 | Sequence 259, App |
| 761 | 25 | 51.0 | 64 | 11 | US-11-000-463-731 | Sequence 731, App |
| 762 | 25 | 51.0 | 65 | 9 | US-10-467-657-7770 | Sequence 7770, Ap |
| 763 | 25 | 51.0 | 68 | 9 | US-10-467-657-8942 | Sequence 8942, Ap |
| 764 | 25 | 51.0 | 75 | 11 | US-11-096-568A-25590 | Sequence 25590, A |
| 765 | 25 | 51.0 | 76 | 11 | US-11-096-568A-11053 | Sequence 11053, A |
| 766 | 25 | 51.0 | 77 | 11 | US-11-079-463-6926 | Sequence 6926, Ap |
| 767 | 25 | 51.0 | 79 | 11 | US-11-120-308-110 | Sequence 110, App |
| 768 | 25 | 51.0 | 89 | 11 | US-11-098-686-10251 | Sequence 10251, A |
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| 770 | 25 | 51.0 | 94 | 11 | US-11-079-463-6929 | Sequence 6929, Ap |
| 771 | 25 | 51.0 | 95 | 11 | US-11-152-569-3 | Sequence 3, Appli |
| 772 | 25 | 51.0 | 96 | 11 | US-11-212-443-162 | Sequence 162, App |
| 773 | 25 | 51.0 | 96 | 11 | US-11-188-298-6046 | Sequence 6046, Ap |
| 774 | 25 | 51.0 | 98 | 9 | US-10-510-386-138 | Sequence 138, App |
| 775 | 25 | 51.0 | 103 | 11 | US-11-096-568A-25589 | Sequence 25589, A |
| 776 | 25 | 51.0 | 106 | 11 | US-11-004-399-2767 | Sequence 2767, Ap |
| 777 | 25 | 51.0 | 108 | 11 | US-11-064-174-51 | Sequence 51, Appl |
| 778 | 25 | 51.0 | 108 | 11 | US-11-064-174-52 | Sequence 52, Appl |
| 779 | 25 | 51.0 | 108 | 11 | US-11-064-174-53 | Sequence 53, Appl |
| 780 | 25 | 51.0 | 108 | 11 | US-11-064-174-166 | Sequence 166, App |
| 781 | 25 | 51.0 | 111 | 11 | US-11-096-568A-12117 | Sequence 12117, A |
| 782 | 25 | 51.0 | 112 | 11 | US-11-172-740-992 | Sequence 992, App |
| 783 | 25 | 51.0 | 113 | 11 | US-11-096-568A-12116 | Sequence 12116, A |
| 784 | 25 | 51.0 | 114 | 11 | US-11-229-769-321 | Sequence 321, App |
| 785 | 25 | 51.0 | 116 | 11 | US-11-096-568A-7568 | Sequence 7568, Ap |
| 786 | 25 | 51.0 | 120 | 11 | US-11-072-512-2692 | Sequence 2692, Ap |
| 787 | 25 | 51.0 | 122 | 11 | US-11-096-568A-7567 | Sequence 7567, Ap |
| 788 | 25 | 51.0 | 124 | 11 | US-11-096-568A-12115 | Sequence 12115, A |
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| 791 | 25 | 51.0 | 132 | 11 | US-11-096-568A-7566 | Sequence 7566, Ap |
| 792 | 25 | 51.0 | 135 | 11 | US-11-108-172-202 | Sequence 202, App |
| 793 | 25 | 51.0 | 135 | 11 | US-11-143-980-60 | Sequence 60, Appl |
| 794 | 25 | 51.0 | 135 | 11 | US-11-019-711-84 | Sequence 84, Appl |
| 795 | 25 | 51.0 | 135 | 11 | US-11-019-711-85 | Sequence 85, Appl |
| 796 | 25 | 51.0 | 135 | 11 | US-11-203-526-20 | Sequence 20, Appl |
| 797 | 25 | 51.0 | 140 | 11 | US-11-096-568A-25588 | Sequence 25588, A |
| 798 | 25 | 51.0 | 141 | 11 | US-11-098-686-10315 | Sequence 10315, A |
| 799 | 25 | 51.0 | 141 | 11 | US-11-096-568A-23874 | Sequence 23874, A |
| 800 | 25 | 51.0 | 142 | 11 | US-11-045-004-884 | Sequence 884, App |
| 801 | 25 | 51.0 | 143 | 9 | US-10-475-075-822 | Sequence 822, App |
| 802 | 25 | 51.0 | 150 | 11 | US-11-188-298-7845 | Sequence 7845, Ap |
| 803 | 25 | 51.0 | 151 | 11 | US-11-188-298-16426 | Sequence 16426, A |
| 804 | 25 | 51.0 | 153 | 9 | US-10-467-657-8418 | Sequence 8418, Ap |
| 805 | 25 | 51.0 | 154 | 11 | US-11-229-769-233 | Sequence 233, App |
| 806 | 25 | 51.0 | 163 | 9 | US-10-467-657-5884 | Sequence 5884, Ap |
| 807 | 25 | 51.0 | 164 | 9 | US-10-714-887-250 | Sequence 250, App |
| 808 | 25 | 51.0 | 164 | 9 | US-10-537-897-46 | Sequence 46, Appl |
| 809 | 25 | 51.0 | 164 | 11 | US-11-172-740-1277 | Sequence 1277, Ap |
| 810 | 25 | 51.0 | 164 | 11 | US-11-172-740-1338 | Sequence 1338, Ap |
| 811 | 25 | 51.0 | 164 | 11 | US-11-188-298-16263 | Sequence 16263, A |
| 812 | 25 | 51.0 | 168 | 9 | US-10-714-887-228 | Sequence 228, App |
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| 814 | 25 | 51.0 | 170 | 11 | US-11-087-099-2762 | Sequence 2762, Ap |
| 815 | 25 | 51.0 | 170 | 11 | US-11-188-298-9743 | Sequence 9743, Ap |
| 816 | 25 | 51.0 | 171 | 11 | US-11-229-769-152 | Sequence 152, App |
| 817 | 25 | 51.0 | 174 | 9 | US-10-714-887-154 | Sequence 154, App |
| 818 | 25 | 51.0 | 174 | 9 | US-10-714-887-156 | Sequence 156, App |
| 819 | 25 | 51.0 | 175 | 11 | US-11-113-581-86 | Sequence 86, Appl |
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| 821 | 25 | 51.0 | 178 | 9 | US-10-821-234-1052 | Sequence 1052, Ap |
| 822 | 25 | 51.0 | 178 | 11 | US-11-188-298-15340 | Sequence 15340, A |
| 823 | 25 | 51.0 | 179 | 11 | US-11-096-568A-19961 | Sequence 19961, A |
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| 830 | 25 | 51.0 | 194 | 11 | US-11-096-568A-21052 | Sequence 21052, A |
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| 836 | 25 | 51.0 | 207 | 11 | US-11-229-769-312 | Sequence 312, App |
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| 838 | 25 | 51.0 | 210 | 11 | US-11-123-166-8 | Sequence 8, Appli |
| 839 | 25 | 51.0 | 210 | 11 | US-11-123-166-10 | Sequence 10, Appl |
| 840 | 25 | 51.0 | 210 | 11 | US-11-123-166-31 | Sequence 31, Appl |
| 841 | 25 | 51.0 | 211 | 9 | US-10-980-388-74 | Sequence 74, Appl |
| 842 | 25 | 51.0 | 211 | 11 | US-11-052-554A-301 | Sequence 301, App |
| 843 | 25 | 51.0 | 213 | 9 | US-10-892-379-6 | Sequence 6, Appli |
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| 846 | 25 | 51.0 | 214 | 9 | US-10-892-379-5 | Sequence 5, Appli |
| 847 | 25 | 51.0 | 218 | 11 | US-11-096-568A-8430 | Sequence 8430, Ap |
| 848 | 25 | 51.0 | 218 | 11 | US-11-144-947-717 | Sequence 717, App |
| 849 | 25 | 51.0 | 219 | 11 | US-11-096-568A-8429 | Sequence 8429, Ap |
| 850 | 25 | 51.0 | 227 | 11 | US-11-096-568A-23872 | Sequence 23872, A |
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| 852 | 25 | 51.0 | 232 | 11 | US-11-087-099-6842 | Sequence 6842, Ap |
| 853 | 25 | 51.0 | 233 | 11 | US-11-188-298-4775 | Sequence 4775, Ap |
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| 858 | 25 | 51.0 | 244 | 11 | US-11-045-004-1262 | Sequence 1262, Ap |
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| 864 | 25 | 51.0 | 263 | 11 | US-11-096-568A-8636 | Sequence 8636, Ap |
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| 866 | 25 | 51.0 | 275 | 9 | US-10-330-773-979 | Sequence 979, App |
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| 871 | 25 | 51.0 | 290 | 9 | US-10-973-115B-222 | Sequence 222, App |
| 872 | 25 | 51.0 | 290 | 9 | US-10-137-873A-222 | Sequence 222, App |
| 873 | 25 | 51.0 | 290 | 9 | US-10-152-370-222 | Sequence 222, App |
| 874 | 25 | 51.0 | 290 | 11 | US-11-290-153-222 | Sequence 222, App |
| 875 | 25 | 51.0 | 290 | 11 | US-11-264-096-1294 | Sequence 1294, Ap |
| 876 | 25 | 51.0 | 291 | 9 | US-10-947-071-16 | Sequence 16, Appl |
| 877 | 25 | 51.0 | 291 | 9 | US-10-948-097-16 | Sequence 16, Appl |
| 878 | 25 | 51.0 | 294 | 9 | US-10-784-004-419 | Sequence 419, App |
| 879 | 25 | 51.0 | 294 | 9 | US-10-784-004-421 | Sequence 421, App |
| 880 | 25 | 51.0 | 296 | 11 | US-11-074-176-166 | Sequence 166, App |
| 881 | 25 | 51.0 | 297 | 9 | US-10-203-486-3 | Sequence 3, Appli |
| 882 | 25 | 51.0 | 298 | 9 | US-10-330-773-596 | Sequence 596, App |
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| 886 | 25 | 51.0 | 305 | 11 | US-11-096-568A-24322 | Sequence 24322, A |
| 887 | 25 | 51.0 | 305 | 11 | US-11-096-568A-31765 | Sequence 31765, A |
| 888 | 25 | 51.0 | 307 | 11 | US-11-188-298-20799 | Sequence 20799, A |
| 889 | 25 | 51.0 | 313 | 11 | US-11-096-568A-9602 | Sequence 9602, Ap |
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| 891 | 25 | 51.0 | 318 | 11 | US-11-111-239-2 | Sequence 2, Appli |
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| 895 | 25 | 51.0 | 327 | 11 | US-11-096-568A-17852 | Sequence 17852, A |
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| 899 | 25 | 51.0 | 337 | 11 | US-11-188-298-1557 | Sequence 1557, Ap |
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| 902 | 25 | 51.0 | 339 | 11 | US-11-241-956-6 | Sequence 6, Appli |
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| 904 | 25 | 51.0 | 341 | 7 | US-09-978-360A-686 | Sequence 686, App |
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| 906 | 25 | 51.0 | 341 | 9 | US-10-973-115B-256 | Sequence 256, App |
| 907 | 25 | 51.0 | 341 | 9 | US-10-137-873A-256 | Sequence 256, App |
| 908 | 25 | 51.0 | 341 | 9 | US-10-152-370-256 | Sequence 256, App |
| 909 | 25 | 51.0 | 341 | 11 | US-11-099-691-6 | Sequence 6, Appli |
| 910 | 25 | 51.0 | 341 | 11 | US-11-290-153-256 | Sequence 256, App |
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| 913 | 25 | 51.0 | 350 | 11 | US-11-096-568A-1291 | Sequence 1291, Ap |
| 914 | 25 | 51.0 | 353 | 11 | US-11-045-004-1979 | Sequence 1979, Ap |
| 915 | 25 | 51.0 | 356 | 11 | US-11-188-298-4050 | Sequence 4050, Ap |
| 916 | 25 | 51.0 | 357 | 9 | US-10-793-626-2558 | Sequence 2558, Ap |
| 917 | 25 | 51.0 | 358 | 11 | US-11-096-568A-28349 | Sequence 28349, A |
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| 924 | 25 | 51.0 | 364 | 11 | US-11-087-099-11653 | Sequence 11653, A |
| 925 | 25 | 51.0 | 370 | 11 | US-11-096-568A-14914 | Sequence 14914, A |
| 926 | 25 | 51.0 | 370 | 11 | US-11-096-568A-17876 | Sequence 17876, A |
| 927 | 25 | 51.0 | 371 | 11 | US-11-120-308-118 | Sequence 118, App |
| 928 | 25 | 51.0 | 374 | 8 | US-10-505-928-741 | Sequence 741, App |
| 929 | 25 | 51.0 | 374 | 9 | US-10-995-561-668 | Sequence 668, App |
| 930 | 25 | 51.0 | 374 | 9 | US-10-995-561-669 | Sequence 669, App |
| 931 | 25 | 51.0 | 374 | 11 | US-11-051-267-8 | Sequence 8, Appli |
| 932 | 25 | 51.0 | 375 | 11 | US-11-051-267-2 | Sequence 2, Appli |
| 933 | 25 | 51.0 | 375 | 11 | US-11-051-267-10 | Sequence 10, Appl |
| 934 | 25 | 51.0 | 375 | 11 | US-11-051-267-12 | Sequence 12, Appl |
| 935 | 25 | 51.0 | 375 | 11 | US-11-051-267-14 | Sequence 14, Appl |
| 936 | 25 | 51.0 | 375 | 11 | US-11-051-267-16 | Sequence 16, Appl |
| 937 | 25 | 51.0 | 375 | 11 | US-11-051-267-18 | Sequence 18, Appl |
| 938 | 25 | 51.0 | 376 | 9 | US-10-995-561-844 | Sequence 844, App |
| 939 | 25 | 51.0 | 376 | 9 | US-10-995-561-848 | Sequence 848, App |
| 940 | 25 | 51.0 | 376 | 11 | US-11-051-267-4 | Sequence 4, Appli |
| 941 | 25 | 51.0 | 376 | 11 | US-11-051-267-6 | Sequence 6, Appli |
| 942 | 25 | 51.0 | 378 | 11 | US-11-096-568A-18777 | Sequence 18777, A |
| 943 | 25 | 51.0 | 380 | 9 | US-10-995-561-846 | Sequence 846, App |
| 944 | 25 | 51.0 | 381 | 11 | US-11-045-004-2511 | Sequence 2511, Ap |
| 945 | 25 | 51.0 | 382 | 11 | US-11-096-568A-28348 | Sequence 28348, A |
| 946 | 25 | 51.0 | 384 | 11 | US-11-172-740-1650 | Sequence 1650, Ap |
| 947 | 25 | 51.0 | 385 | 11 | US-11-079-463-9564 | Sequence 9564, Ap |
| 948 | 25 | 51.0 | 386 | 11 | US-11-098-686-10767 | Sequence 10767, A |
| 949 | 25 | 51.0 | 386 | 11 | US-11-096-568A-17851 | Sequence 17851, A |
| 950 | 25 | 51.0 | 386 | 11 | US-11-188-298-9938 | Sequence 9938, Ap |
| 951 | 25 | 51.0 | 387 | 11 | US-11-188-298-13516 | Sequence 13516, A |
| 952 | 25 | 51.0 | 388 | 11 | US-11-096-568A-1290 | Sequence 1290, Ap |
| 953 | 25 | 51.0 | 389 | 11 | US-11-079-463-5925 | Sequence 5925, Ap |
| 954 | 25 | 51.0 | 390 | 9 | US-10-995-561-847 | Sequence 847, App |
| 955 | 25 | 51.0 | 393 | 11 | US-11-096-568A-12928 | Sequence 12928, A |
| 956 | 25 | 51.0 | 394 | 11 | US-11-096-568A-33827 | Sequence 33827, A |
| 957 | 25 | 51.0 | 395 | 11 | US-11-079-463-9649 | Sequence 9649, Ap |
| 958 | 25 | 51.0 | 396 | 11 | US-11-098-686-11403 | Sequence 11403, A |
| 959 | 25 | 51.0 | 397 | 11 | US-11-096-568A-14913 | Sequence 14913, A |
| 960 | 25 | 51.0 | 397 | 11 | US-11-096-568A-17875 | Sequence 17875, A |
| 961 | 25 | 51.0 | 399 | 11 | US-11-096-568A-31782 | Sequence 31782, A |
| 962 | 25 | 51.0 | 400 | 11 | US-11-096-568A-17557 | Sequence 17557, A |
| 963 | 25 | 51.0 | 402 | 11 | US-11-096-568A-10149 | Sequence 10149, A |
| 964 | 25 | 51.0 | 402 | 11 | US-11-079-463-9410 | Sequence 9410, Ap |
| 965 | 25 | 51.0 | 403 | 11 | US-11-024-959-465 | Sequence 465, App |
| 966 | 25 | 51.0 | 403 | 11 | US-11-079-463-9889 | Sequence 9889, Ap |
| 967 | 25 | 51.0 | 404 | 11 | US-11-096-568A-28347 | Sequence 28347, A |
| 968 | 25 | 51.0 | 404 | 11 | US-11-096-568A-31781 | Sequence 31781, A |
| 969 | 25 | 51.0 | 404 | 11 | US-11-079-463-7980 | Sequence 7980, Ap |
| 970 | 25 | 51.0 | 405 | 11 | US-11-096-568A-17556 | Sequence 17556, A |

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| 971 | 25 | 51.0 | 405 | 11 | US-11-096-568A-32155 | Sequence 32155, A |
| 972 | 25 | 51.0 | 405 | 11 | US-11-188-298-4708 | Sequence 4708, Ap |
| 973 | 25 | 51.0 | 409 | 11 | US-11-096-568A-24321 | Sequence 24321, A |
| 974 | 25 | 51.0 | 410 | 9 | US-10-467-657-2312 | Sequence 2312, Ap |
| 975 | 25 | 51.0 | 410 | 11 | US-11-096-568A-12927 | Sequence 12927, A |
| 976 | 25 | 51.0 | 411 | 9 | US-10-524-919-4 | Sequence 4, Appli |
| 977 | 25 | 51.0 | 411 | 11 | US-11-188-298-1737 | Sequence 1737, Ap |
| 978 | 25 | 51.0 | 412 | 9 | US-10-524-919-2 | Sequence 2, Appli |
| 979 | 25 | 51.0 | 412 | 11 | US-11-096-568A-10148 | Sequence 10148, A |
| 980 | 25 | 51.0 | 412 | 11 | US-11-229-769-150 | Sequence 150, App |
| 981 | 25 | 51.0 | 418 | 11 | US-11-087-099-10815 | Sequence 10815, A |
| 982 | 25 | 51.0 | 419 | 11 | US-11-188-298-10420 | Sequence 10420, A |
| 983 | 25 | 51.0 | 421 | 11 | US-11-087-099-11711 | Sequence 11711, A |
| 984 | 25 | 51.0 | 423 | 11 | US-11-096-568A-18776 | Sequence 18776, A |
| 985 | 25 | 51.0 | 423 | 11 | US-11-096-568A-24818 | Sequence 24818, A |
| 986 | 25 | 51.0 | 424 | 9 | US-10-467-657-90 | Sequence 90, Appl |
| 987 | 25 | 51.0 | 424 | 9 | US-10-467-657-6344 | Sequence 6344, Ap |
| 988 | 25 | 51.0 | 425 | 11 | US-11-079-463-7158 | Sequence 7158, Ap |
| 989 | 25 | 51.0 | 426 | 9 | US-10-131-826A-218 | Sequence 218, App |
| 990 | 25 | 51.0 | 426 | 9 | US-10-973-115B-218 | Sequence 218, App |
| 991 | 25 | 51.0 | 426 | 9 | US-10-137-873A-218 | Sequence 218, App |
| 992 | 25 | 51.0 | 426 | 9 | US-10-152-370-218 | Sequence 218, App |
| 993 | 25 | 51.0 | 426 | 11 | US-11-290-153-218 | Sequence 218, App |
| 994 | 25 | 51.0 | 432 | 9 | US-10-793-626-780 | Sequence 780, App |
| 995 | 25 | 51.0 | 435 | 11 | US-11-096-568A-31780 | Sequence 31780, A |
| 996 | 25 | 51.0 | 437 | 8 | US-10-504-120-32 | Sequence 32, Appl |
| 997 | 25 | 51.0 | 437 | 11 | US-11-096-568A-17555 | Sequence 17555, A |
| 998 | 25 | 51.0 | 442 | 11 | US-11-096-568A-32154 | Sequence 32154, A |
| 999 | 25 | 51.0 | 442 | 11 | US-11-188-298-20694 | Sequence 20694, A |
| 1000 | 25 | 51.0 | 443 | 11 | US-11-096-568A-12926 | Sequence 12926, A |

ALIGNMENTS

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RESULT 1
US-10-530-253-18
; Sequence 18, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 35
US-10-530-253-18

  Query Match             100.0%;  Score 49;  DB 9;  Length 149;
  Best Local Similarity   100.0%;  Pred. No. 0.019;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db         65 KCLKFYSKI 73


RESULT 2
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-13

  Query Match             100.0%;  Score 49;  DB 9;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 0.02;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db         65 KCLKFYSKI 73


RESULT 3
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
;  APPLICANT: HealthBanks Biotech CO. LTD.
;  TITLE OF INVENTION: Fusion protein for inhibiting cervcal cancer
;  FILE REFERENCE: P7819/0613
;  CURRENT APPLICATION NUMBER: US/11/206,138
;  CURRENT FILING DATE:  2005-08-18
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-11-206-138-3

  Query Match             100.0%;  Score 49;  DB 11;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.02;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db         72 KCLKFYSKI 80


RESULT 4
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
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;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-1

  Query Match            100.0%;  Score 49;  DB 9;  Length 248;
  Best Local Similarity  100.0%;  Pred. No. 0.031;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db         65 KCLKFYSKI 73


RESULT 5
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-3

  Query Match            100.0%;  Score 49;  DB 9;  Length 248;
  Best Local Similarity  100.0%;  Pred. No. 0.031;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db         65 KCLKFYSKI 73


RESULT 6
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-5

  Query Match            100.0%;  Score 49;  DB 9;  Length 248;
  Best Local Similarity  100.0%;  Pred. No. 0.031;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db         65 KCLKFYSKI 73


RESULT 7
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-7

  Query Match            100.0%;  Score 49;  DB 9;  Length 248;
  Best Local Similarity  100.0%;  Pred. No. 0.031;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db        162 KCLKFYSKI 170


RESULT 8
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-9

  Query Match            100.0%;  Score 49;  DB 9;  Length 248;
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  Best Local Similarity   100.0%;  Pred. No. 0.031;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db        162 KCLKFYSKI 170


RESULT 9
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-11

  Query Match             100.0%;  Score 49;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.031;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db        162 KCLKFYSKI 170


RESULT 10
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
;  APPLICANT: PANG, XIAOWU
;  TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
;  TITLE OF INVENTION:  RECOMBINANT REPLICON
;  FILE REFERENCE: 116620-003
;  CURRENT APPLICATION NUMBER: US/11/192,923A
;  CURRENT FILING DATE:  2005-07-29
;  PRIOR APPLICATION NUMBER: CN 03115272.4
;  PRIOR FILING DATE: 2003-01-30
;  PRIOR APPLICATION NUMBER: CN 03115273.2
;  PRIOR FILING DATE: 2003-01-30
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
;   LENGTH: 256
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-11-192-923A-2

  Query Match             100.0%;  Score 49;  DB 11;  Length 256;
  Best Local Similarity   100.0%;  Pred. No. 0.031;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||||||||
Db        170 KCLKFYSKI 178


RESULT 11
US-10-530-253-16
; Sequence 16, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 31
US-10-530-253-16

  Query Match             91.8%;  Score 45;  DB 9;  Length 149;
  Best Local Similarity   77.8%;  Pred. No. 0.12;
  Matches    7;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              |||:||||:
Db         65 KCLRFYSKV 73


RESULT 12
US-10-530-253-19
; Sequence 19, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 39
US-10-530-253-19

  Query Match             79.6%;  Score 39;  DB 9;  Length 158;
  Best Local Similarity   75.0%;  Pred. No. 1.8;
  Matches    6;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              |:|||:||
Db         68 CIKFYAKI 75


RESULT 13
US-10-530-253-26
; Sequence 26, Application US/10530253
; Publication No. US20060014926A1
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; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 26
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 68
US-10-530-253-26

  Query Match             79.6%;  Score 39;  DB 9;  Length 158;
  Best Local Similarity   75.0%;  Pred. No. 1.8;
  Matches    6;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              |:|||:||
Db         68 CIKFYAKI 75


RESULT 14
US-10-530-253-21
; Sequence 21, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 21
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 51
US-10-530-253-21

  Query Match             77.6%;  Score 38;  DB 9;  Length 151;
  Best Local Similarity   77.8%;  Pred. No. 2.7;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              :|| |||||
Db         65 QCLLFYSKI 73


RESULT 15
US-10-530-253-39
; Sequence 39, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 39
;   LENGTH: 152
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(152)
;   OTHER INFORMATION: where Xaa is any amino acid
US-10-530-253-39

  Query Match             77.6%;  Score 38;  DB 9;  Length 152;
  Best Local Similarity   87.5%;  Pred. No. 2.7;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              || |||||
Db         68 CLXFYSKI 75


RESULT 16
US-10-530-253-15
; Sequence 15, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 18
US-10-530-253-15

  Query Match             77.6%;  Score 38;  DB 9;  Length 158;
  Best Local Similarity   66.7%;  Pred. No. 2.8;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              ||: |||:|
Db         67 KCIDFYSRI 75


RESULT 17
US-10-530-253-20
; Sequence 20, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
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;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 45
US-10-530-253-20

  Query Match             77.6%;  Score 38;  DB 9;  Length 158;
  Best Local Similarity   66.7%;  Pred. No. 2.8;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              ||: |||:|
Db         67 KCIDFYSRI 75


RESULT 18
US-10-530-061-501
; Sequence 501, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 501
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-501

  Query Match             73.5%;  Score 36;  DB 9;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.59;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KCLKFY 6
              ||||||
Db          5 KCLKFY 10


RESULT 19
US-10-530-061-588
; Sequence 588, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 588
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-588

  Query Match             73.5%;  Score 36;  DB 9;  Length 10;
  Best Local Similarity   75.0%;  Pred. No. 0.59;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              || ||||:
Db          1 CLLFYSKV 8


RESULT 20
US-10-530-061-495
; Sequence 495, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 495
;   LENGTH: 11
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-495

  Query Match             73.5%;  Score 36;  DB 9;  Length 11;
  Best Local Similarity   75.0%;  Pred. No. 0.64;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              || ||||:
Db          3 CLLFYSKV 10


RESULT 21
US-10-530-061-1693
; Sequence 1693, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
```

```
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1693
;    LENGTH: 15
;    TYPE: PRT
;    ORGANISM: Human papillomavirus
US-10-530-061-1693

  Query Match             73.5%;  Score 36;  DB 9;  Length 15;
  Best Local Similarity   75.0%;  Pred. No. 0.84;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              || |||| :
Db          2 CLLFYSKV 9


RESULT 22
US-10-530-253-23
; Sequence 23, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 23
;    LENGTH: 155
;    TYPE: PRT
;    ORGANISM: Human papillomavirus type 56
US-10-530-253-23

  Query Match             73.5%;  Score 36;  DB 9;  Length 155;
  Best Local Similarity   75.0%;  Pred. No. 6.8;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              || |||| :
Db         69 CLLFYSKV 76


RESULT 23
US-10-530-253-25
; Sequence 25, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 25
;    LENGTH: 160
;    TYPE: PRT
;    ORGANISM: Human papillomavirus type 59
US-10-530-253-25

  Query Match             71.4%;  Score 35;  DB 9;  Length 160;
  Best Local Similarity   44.4%;  Pred. No. 11;
  Matches    4;  Conservative    4;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              ||: ||:::
Db         67 KCISFYARV 75


RESULT 24
US-11-096-568A-28333
; Sequence 28333, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides I
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 28333
;    LENGTH: 320
;    TYPE: PRT
;    ORGANISM: Arabidopsis thaliana
;    FEATURE:
;    NAME/KEY: misc_feature
;    LOCATION: (1)..(320)
;    OTHER INFORMATION: Ceres Seq. ID no. 2712614
US-11-096-568A-28333

  Query Match             71.4%;  Score 35;  DB 11;  Length 320;
  Best Local Similarity   75.0%;  Pred. No. 21;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              ||| |||:
Db         25 CLKLYSKM 32


RESULT 25
US-11-264-096-2248
; Sequence 2248, Application US/11264096
; Publication No. US20060084794A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Albumin Fusion Proteins
;  FILE REFERENCE: PF546D1
;  CURRENT APPLICATION NUMBER: US/11/264,096
;  CURRENT FILING DATE:  2005-11-02
;  PRIOR APPLICATION NUMBER: 09/833,245
;  PRIOR FILING DATE: 2001-04-12
;  PRIOR APPLICATION NUMBER: 60/229, 358
;  PRIOR FILING DATE: 2000-04-12
;  PRIOR APPLICATION NUMBER: 60/256, 931
;  PRIOR FILING DATE: 2000-12-21
;  PRIOR APPLICATION NUMBER: 60/199, 384
;  PRIOR FILING DATE: 2000-04-25
;  NUMBER OF SEQ ID NOS: 2267
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2248
;    LENGTH: 363
;    TYPE: PRT
;    ORGANISM: Homo sapiens
US-11-264-096-2248

  Query Match             71.4%;  Score 35;  DB 11;  Length 363;
  Best Local Similarity   50.0%;  Pred. No. 23;
  Matches    4;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy          2 CLKFYSKI 9
              |:|||:::
Db        120 CMKFYARV 127


RESULT 26
US-11-096-568A-28332
; Sequence 28332, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 28332
;   LENGTH: 398
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(398)
;   OTHER INFORMATION: Ceres Seq. ID no. 2712613
US-11-096-568A-28332

  Query Match             71.4%;  Score 35;  DB 11;  Length 398;
  Best Local Similarity   75.0%;  Pred. No. 25;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              ||| |||:
Db        103 CLKLYSKM 110


RESULT 27
US-10-505-928-517
; Sequence 517, Application US/10505928
; Publication No. US20060088532A1
; GENERAL INFORMATION:
;  APPLICANT: Ludwig Institute for Cancer Research et al.
;  TITLE OF INVENTION: LYMPHATIC ENDOTHELIAL GENES
;  FILE REFERENCE: 28967/39178
;  CURRENT APPLICATION NUMBER: US/10/505,928
;  CURRENT FILING DATE:  2004-08-27
;  PRIOR APPLICATION NUMBER: US 60/363,019
;  PRIOR FILING DATE: 2002-03-07
;  NUMBER OF SEQ ID NOS: 866
;  SOFTWARE: PatentIn 3.2
; SEQ ID NO 517
;   LENGTH: 449
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-505-928-517

  Query Match             71.4%;  Score 35;  DB 8;  Length 449;
  Best Local Similarity   50.0%;  Pred. No. 28;
  Matches    4;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              |:|||:::
Db        121 CMKFYARV 128


RESULT 28
US-11-177-506-32
; Sequence 32, Application US/11177506
; Publication No. US20060029956A1
; GENERAL INFORMATION:
;  APPLICANT: Beyer, Wayne F.
;  APPLICANT:  Venetta, Thomas M.
;  APPLICANT:  Groelke, John W.
;  APPLICANT:  Blaesius, Rainer H.
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE
;  TITLE OF INVENTION:  DETECTION OF OVARIAN DISEASE
;  FILE REFERENCE: 46143/294851
;  CURRENT APPLICATION NUMBER: US/11/177,506
;  CURRENT FILING DATE:  2005-07-08
;  PRIOR APPLICATION NUMBER: 60/586,856
;  PRIOR FILING DATE: 2004-07-09
;  NUMBER OF SEQ ID NOS: 52
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 32
;   LENGTH: 449
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-177-506-32

  Query Match             71.4%;  Score 35;  DB 11;  Length 449;
  Best Local Similarity   50.0%;  Pred. No. 28;
  Matches    4;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              |:|||:::
Db        121 CMKFYARV 128


RESULT 29
US-10-821-234-1094
; Sequence 1094, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
;  APPLICANT: Labat, Ivan
;  APPLICANT:  Stache-Crain, Birgit
;  APPLICANT:  Andarmani, Susan
;  APPLICANT:  Tang, Y. Tom
;  TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
;  FILE REFERENCE: 821A
;  CURRENT APPLICATION NUMBER: US/10/821,234
;  CURRENT FILING DATE:  2004-04-07
;  PRIOR APPLICATION NUMBER: US 60/462,047
;  PRIOR FILING DATE: 2003-04-07
;  NUMBER OF SEQ ID NOS: 1704
;  SOFTWARE: pt_SEQ_genes Version 1.0
; SEQ ID NO 1094
;   LENGTH: 463
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-821-234-1094

  Query Match             71.4%;  Score 35;  DB 9;  Length 463;
  Best Local Similarity   50.0%;  Pred. No. 29;
  Matches    4;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              |:|||:::
Db        135 CMKFYARV 142


RESULT 30
US-11-096-568A-28331
; Sequence 28331, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 28331
;   LENGTH: 500
;   TYPE: PRT
```

; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(500)
; OTHER INFORMATION: Ceres Seq. ID no. 2712612
US-11-096-568A-28331

Query Match 71.4%; Score 35; DB 11; Length 500;
Best Local Similarity 75.0%; Pred. No. 31;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CLKFYSKI 9
||| |||:
Db 205 CLKLYSKM 212

RESULT 31
US-10-511-989-10
; Sequence 10, Application US/10511989
; Publication No. US20060053496A1
; GENERAL INFORMATION:
; APPLICANT: University of North Carolina-Chapel Hill
; APPLICANT: Ting, Jenny
; APPLICANT: Linhoff, Michael
; APPLICANT: Harton, Johnathan
; APPLICANT: Williams, Kristi
; APPLICANT: Lich, John
; APPLICANT: O'Connor, William
; APPLICANT: Moore, Christopher
; APPLICANT: Davis, Beckley
; APPLICANT: Brickey, W. Jane
; APPLICANT: Conti, Brian
; APPLICANT: Zhang, Jinghua
; APPLICANT: Zhu, Xin-Sheng
; TITLE OF INVENTION: CATERPILLER GENE FAMILY
; FILE REFERENCE: 5470.368WO
; CURRENT APPLICATION NUMBER: US/10/511,989
; CURRENT FILING DATE: 2004-10-21
; PRIOR APPLICATION NUMBER: US 60/376,626
; PRIOR FILING DATE: 2002-04-30
; NUMBER OF SEQ ID NOS: 186
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10
; LENGTH: 1033
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-511-989-10

Query Match 69.4%; Score 34; DB 9; Length 1033;
Best Local Similarity 77.8%; Pred. No. 92;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KCLKFYSKI 9
|| |||| |
Db 484 KCEKFYSFI 492

RESULT 32
US-10-995-561-827
; Sequence 827, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 827
; LENGTH: 2107
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-995-561-827

Query Match 69.4%; Score 34; DB 9; Length 2107;
Best Local Similarity 75.0%; Pred. No. 1.7e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 CLKFYSKI 9
| |||||
Db 199 CTSFYSKI 206

RESULT 33
US-10-995-561-825
; Sequence 825, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 825
; LENGTH: 2480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-995-561-825

Query Match 69.4%; Score 34; DB 9; Length 2480;
Best Local Similarity 75.0%; Pred. No. 2e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 CLKFYSKI 9
| |||||
Db 199 CTSFYSKI 206

RESULT 34
US-10-995-561-826
; Sequence 826, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 826
; LENGTH: 3116
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-995-561-826

Query Match 69.4%; Score 34; DB 9; Length 3116;
Best Local Similarity 75.0%; Pred. No. 2.5e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 CLKFYSKI 9
| |||||
Db 199 CTSFYSKI 206

RESULT 35
US-10-530-061-637

```
; Sequence 637, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 637
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-637

  Query Match             67.3%;  Score 33;  DB 9;  Length 9;
  Best Local Similarity   85.7%;  Pred. No. 1.9e+05;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CLKFYSK 8
              || ||||
Db          3 CLLFYSK 9


RESULT 36
US-11-004-399-2191
; Sequence 2191, Application US/11004399
; Publication No. US20060053516A1
; GENERAL INFORMATION:
;  APPLICANT: Chye, Mee Lee
;  APPLICANT:  Li, Hong Ye
;  APPLICANT:  Ramalingam, Sathiskumar
;  APPLICANT:  Poon, Leo Lit Man
;  APPLICANT:  Peiris, Joseph Sriyal Malik
;  TITLE OF INVENTION: Genetically Modified Plants Comprising SARS-CoV Viral Nucleotide
;  TITLE OF INVENTION:  Sequences and Methods of Use Thereof For Immunization Against SA
;  FILE REFERENCE: 2587/73166/RDK
;  CURRENT APPLICATION NUMBER: US/11/004,399
;  CURRENT FILING DATE:  2004-12-03
;  PRIOR APPLICATION NUMBER: US 60/527,637
;  PRIOR FILING DATE: 2003-12-03
;  NUMBER OF SEQ ID NOS: 4043
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2191
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: SARS-CoV Virus
US-11-004-399-2191

  Query Match             67.3%;  Score 33;  DB 11;  Length 20;
  Best Local Similarity   62.5%;  Pred. No. 4.2;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSK 8
              |||||: :
Db          8 KCLKFFHR 15


RESULT 37
US-10-225-562-2
; Sequence 2, Application US/10225562
; Publication No. US20060074016A1
; GENERAL INFORMATION:
;  APPLICANT: Yeaman, Michael R.
;  APPLICANT:  Yount, Nannette I.
;  APPLICANT:  Edwards Jr. , John E.
;  APPLICANT:  Brass, Eric P.
;  TITLE OF INVENTION: Multifunctional Context-Activated
;  TITLE OF INVENTION:  Protides and Methods of Use
;  FILE REFERENCE: P-HR 5188
;  CURRENT APPLICATION NUMBER: US/10/225,562
;  CURRENT FILING DATE:  2002-08-20
;  NUMBER OF SEQ ID NOS: 4
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 36
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: synthetic peptide
US-10-225-562-2

  Query Match             67.3%;  Score 33;  DB 9;  Length 36;
  Best Local Similarity   55.6%;  Pred. No. 7.1;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              :|:| |||:
Db          7 QCIKTYSKL 15


RESULT 38
US-10-225-562-3
; Sequence 3, Application US/10225562
; Publication No. US20060074016A1
; GENERAL INFORMATION:
;  APPLICANT: Yeaman, Michael R.
;  APPLICANT:  Yount, Nannette I.
;  APPLICANT:  Edwards Jr. , John E.
;  APPLICANT:  Brass, Eric P.
;  TITLE OF INVENTION: Multifunctional Context-Activated
;  TITLE OF INVENTION:  Protides and Methods of Use
;  FILE REFERENCE: P-HR 5188
;  CURRENT APPLICATION NUMBER: US/10/225,562
;  CURRENT FILING DATE:  2002-08-20
;  NUMBER OF SEQ ID NOS: 4
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
;   LENGTH: 37
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: synthetic peptide
US-10-225-562-3

  Query Match             67.3%;  Score 33;  DB 9;  Length 37;
  Best Local Similarity   55.6%;  Pred. No. 7.3;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              :|:| |||:
Db          7 QCIKTYSKL 15


RESULT 39
US-10-530-253-22
; Sequence 22, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
```

; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 22
; LENGTH: 148
; TYPE: PRT
; ORGANISM: Human papillomavirus type 52
US-10-530-253-22

Query Match 67.3%; Score 33; DB 9; Length 148;
Best Local Similarity 75.0%; Pred. No. 25;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CLKFYSKI 9
||:| |||
Db 66 CLRFLSKI 73

RESULT 40
US-10-530-253-17
; Sequence 17, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 33
US-10-530-253-17

Query Match 67.3%; Score 33; DB 9; Length 149;
Best Local Similarity 75.0%; Pred. No. 25;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CLKFYSKI 9
||:| |||
Db 66 CLRFLSKI 73

RESULT 41
US-11-202-731-31
; Sequence 31, Application US/11202731
; Publication No. US20060037104A1
; GENERAL INFORMATION:
; APPLICANT: Green, Allan
; APPLICANT: Singh, Surinder
; APPLICANT: Liu, Qing
; TITLE OF INVENTION: Method of Modifying the Content of Cottonseed Oil
; FILE REFERENCE: 45-00
; CURRENT APPLICATION NUMBER: US/11/202,731
; CURRENT FILING DATE: 2005-08-12
; PRIOR APPLICATION NUMBER: US/09/837,751
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: US 60/198,124
; PRIOR FILING DATE: 2000-04-18
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 31
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Glycine max
US-11-202-731-31

Query Match 67.3%; Score 33; DB 11; Length 383;
Best Local Similarity 71.4%; Pred. No. 59;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 CLKFYSK 8
|:|:|||
Db 164 CIKWYSK 170

RESULT 42
US-11-188-298-19539
; Sequence 19539, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 19539
; LENGTH: 385
; TYPE: PRT
; ORGANISM: Capsicum annuum
US-11-188-298-19539

Query Match 67.3%; Score 33; DB 11; Length 385;
Best Local Similarity 62.5%; Pred. No. 59;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CLKFYSKI 9
| ||||:
Db 352 CKKFYSRL 359

RESULT 43
US-11-188-298-10348
; Sequence 10348, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 10348
; LENGTH: 758
; TYPE: PRT
; ORGANISM: Taraxacum officinale
US-11-188-298-10348

Query Match 67.3%; Score 33; DB 11; Length 758;
Best Local Similarity 66.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KCLKFYSKI 9
| ||||| :
Db 97 KALKFYSSL 105

RESULT 44
US-10-530-061-587

```
; Sequence 587, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 587
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-587

  Query Match             65.3%;  Score 32;  DB 9;  Length 10;
  Best Local Similarity   62.5%;  Pred. No. 3.5;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 CLKFYSKI 9
              |  ||||:
Db          1 CFLFYSKV 8


RESULT 45
US-11-087-099-2019
; Sequence 2019, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 2019
;   LENGTH: 114
;   TYPE: PRT
;   ORGANISM: Zea mays
US-11-087-099-2019

  Query Match             65.3%;  Score 32;  DB 11;  Length 114;
  Best Local Similarity   71.4%;  Pred. No. 31;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CLKFYSK 8
              ||:|| |
Db         42 CLEFYGK 48


RESULT 46
US-11-087-099-9464
; Sequence 9464, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 9464
;   LENGTH: 195
;   TYPE: PRT
;   ORGANISM: Zea mays
US-11-087-099-9464

  Query Match             65.3%;  Score 32;  DB 11;  Length 195;
  Best Local Similarity   71.4%;  Pred. No. 51;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CLKFYSK 8
              ||:|| |
Db        123 CLEFYGK 129


RESULT 47
US-11-087-099-961
; Sequence 961, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 961
;   LENGTH: 222
;   TYPE: PRT
;   ORGANISM: Zea mays
US-11-087-099-961

  Query Match             65.3%;  Score 32;  DB 11;  Length 222;
  Best Local Similarity   71.4%;  Pred. No. 57;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CLKFYSK 8
              ||:|| |
Db        150 CLEFYGK 156


RESULT 48
US-11-018-868-94
; Sequence 94, Application US/11018868
; Publication No. US20060034871A1
; GENERAL INFORMATION:
;  APPLICANT: Chiron Corporation
;  APPLICANT:  Grandi, Guido
;  APPLICANT:  Ratti, Guilio
;  APPLICANT:  Bonci, Alessandro
;  APPLICANT:  Finco, Oretta
;  TITLE OF INVENTION: Immunogenic Compositions for Chlamydia trachomatis
;  FILE REFERENCE: 002441.00099 (PP23152.001)
;  CURRENT APPLICATION NUMBER: US/11/018,868
;  CURRENT FILING DATE:  2004-12-22
;  NUMBER OF SEQ ID NOS: 186
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 94
;   LENGTH: 352
;   TYPE: PRT
;   ORGANISM: Chlamydia trachomatis
US-11-018-868-94

  Query Match             65.3%;  Score 32;  DB 11;  Length 352;
  Best Local Similarity   66.7%;  Pred. No. 86;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 KCLKFYSKI 9
              : ||||| |
Db        214 RALKFYSSI 222


RESULT 49
US-11-087-099-5448
; Sequence 5448, Application US/11087099
; Publication No. US20060041961A1
```

```
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 5448
;   LENGTH: 384
;   TYPE: PRT
;   ORGANISM: Oryza sativa (japonica cultivar-group)
US-11-087-099-5448

  Query Match             65.3%;  Score 32;  DB 11;  Length 384;
  Best Local Similarity   71.4%;  Pred. No. 93;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CLKFYSK 8
              ||:|| |
Db        312 CLEFYGK 318


RESULT 50
US-11-087-099-7231
; Sequence 7231, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 7231
;   LENGTH: 385
;   TYPE: PRT
;   ORGANISM: Triticum aestivum
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(385)
;   OTHER INFORMATION: unsure at all Xaa locations
US-11-087-099-7231

  Query Match             65.3%;  Score 32;  DB 11;  Length 385;
  Best Local Similarity   71.4%;  Pred. No. 93;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 CLKFYSK 8
              ||:|| |
Db        312 CLEFYGK 318


Search completed: May  5, 2006, 08:29:45
Job time : 9.4 secs
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# STIC Search Report
## Biotech-Chem Library

STIC Database Tracking Number: 188266

| TO: | From: |
|---|---|
| Nita M Minnifield<br>Location: rem-3c01/3c18<br>Art Unit: 1645<br>Wednesday, May 10, 2006<br>Case Serial Number: 08/170344 | Kristine Hensle<br>Location: Biotech-Chem Library<br>REM-1B69<br>Phone: (571)272-4161<br><br>Kristine.Hensle@uspto.gov |

## Search Notes

Examiner Minnifield,

See attached results. This packet is part 8 of 8.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Kristine Hensle
Librarian
STIC Biotech/Chem Library
(571)272-4161

Reviewed
5/11/06
MM

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OM protein - protein search, using sw model

Run on: May 5, 2006, 03:13:35 ; Search time 21 Seconds
(without alignments)
35.432 Million cell updates/sec

Title: US-08-170-344-70
Perfect score: 56
Sequence: 1 EYRHYCYSL 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/1/iaa/5_COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/6_COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/H_COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/RE_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
|---|---|---|---|---|---|---|
| 1 | 56 | 100.0 | 20 | 1 | US-08-934-915-44 | Sequence 44, Appl |
| 2 | 56 | 100.0 | 20 | 1 | US-08-934-915-163 | Sequence 163, App |
| 3 | 56 | 100.0 | 29 | 2 | US-09-980-523A-8 | Sequence 8, Appli |
| 4 | 56 | 100.0 | 151 | 2 | US-09-701-080C-18 | Sequence 18, Appl |
| 5 | 56 | 100.0 | 158 | 2 | US-09-980-523A-2 | Sequence 2, Appli |
| 6 | 56 | 100.0 | 162 | 1 | US-08-316-239B-3 | Sequence 3, Appli |
| 7 | 56 | 100.0 | 172 | 2 | US-08-860-165-12 | Sequence 12, Appl |
| 8 | 56 | 100.0 | 172 | 2 | US-08-860-165-14 | Sequence 14, Appl |
| 9 | 56 | 100.0 | 172 | 2 | US-09-359-382-12 | Sequence 12, Appl |
| 10 | 56 | 100.0 | 172 | 2 | US-09-359-382-14 | Sequence 14, Appl |
| 11 | 56 | 100.0 | 182 | 1 | US-08-117-083-10 | Sequence 10, Appl |
| 12 | 56 | 100.0 | 243 | 2 | US-09-462-993-1 | Sequence 1, Appli |
| 13 | 56 | 100.0 | 266 | 2 | US-08-860-165-10 | Sequence 10, Appl |
| 14 | 56 | 100.0 | 266 | 2 | US-09-359-382-10 | Sequence 10, Appl |
| 15 | 56 | 100.0 | 266 | 2 | US-09-367-309A-1 | Sequence 1, Appli |
| 16 | 56 | 100.0 | 273 | 2 | US-09-485-885-4 | Sequence 4, Appli |
| 17 | 56 | 100.0 | 292 | 2 | US-09-485-885-10 | Sequence 10, Appl |
| 18 | 56 | 100.0 | 371 | 2 | US-09-485-885-6 | Sequence 6, Appli |
| 19 | 56 | 100.0 | 390 | 2 | US-09-485-885-14 | Sequence 14, Appl |
| 20 | 53 | 94.6 | 162 | 1 | US-08-316-239B-4 | Sequence 4, Appli |
| 21 | 48 | 85.7 | 9 | 2 | US-08-159-339A-76 | Sequence 76, Appl |
| 22 | 48 | 85.7 | 9 | 2 | US-09-601-729-277 | Sequence 277, App |
| 23 | 47 | 83.9 | 9 | 2 | US-08-159-339A-247 | Sequence 247, App |
| 24 | 44 | 78.6 | 63 | 2 | US-09-248-796A-24718 | Sequence 24718, A |
| 25 | 42 | 75.0 | 128 | 2 | US-09-107-532A-4132 | Sequence 4132, Ap |
| 26 | 41 | 73.2 | 370 | 2 | US-09-454-071-6 | Sequence 6, Appli |
| 27 | 39 | 69.6 | 9 | 2 | US-08-159-339A-134 | Sequence 134, App |
| 28 | 39 | 69.6 | 11 | 2 | US-08-159-339A-1171 | Sequence 1171, Ap |
| 29 | 39 | 69.6 | 174 | 1 | US-08-401-530A-6 | Sequence 6, Appli |
| 30 | 39 | 69.6 | 174 | 1 | US-08-709-662-6 | Sequence 6, Appli |
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| 33 | 38 | 67.9 | 499 | 2 | US-09-949-016-7409 | Sequence 7409, Ap |
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| 35 | 37 | 66.1 | 99 | 2 | US-09-248-796A-21392 | Sequence 21392, A |
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| 39 | 37 | 66.1 | 532 | 2 | US-09-382-256-6 | Sequence 6, Appli |
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| 42 | 37 | 66.1 | 532 | 2 | US-09-395-115-6 | Sequence 6, Appli |
| 43 | 37 | 66.1 | 532 | 2 | US-09-395-115-14 | Sequence 14, Appl |
| 44 | 37 | 66.1 | 532 | 2 | US-08-123-934A-2 | Sequence 2, Appli |
| 45 | 37 | 66.1 | 532 | 2 | US-08-334-179A-12 | Sequence 12, Appl |
| 46 | 37 | 66.1 | 532 | 2 | US-08-436-265-6 | Sequence 6, Appli |
| 47 | 37 | 66.1 | 532 | 2 | US-08-436-265-14 | Sequence 14, Appl |
| 48 | 37 | 66.1 | 532 | 2 | US-09-679-187-6 | Sequence 6, Appli |
| 49 | 37 | 66.1 | 532 | 2 | US-09-679-187-14 | Sequence 14, Appl |
| 50 | 37 | 66.1 | 532 | 2 | US-09-874-628-2 | Sequence 2, Appli |
| 51 | 37 | 66.1 | 532 | 2 | US-08-448-371A-6 | Sequence 6, Appli |
| 52 | 37 | 66.1 | 532 | 2 | US-09-267-963D-6 | Sequence 6, Appli |
| 53 | 37 | 66.1 | 532 | 2 | US-09-267-963D-14 | Sequence 14, Appl |
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| 56 | 37 | 66.1 | 532 | 4 | PCT-US95-05467-6 | Sequence 6, Appli |
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| 65 | 36 | 64.3 | 200 | 2 | US-09-728-721-11 | Sequence 11, Appl |
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| 69 | 36 | 64.3 | 245 | 2 | US-08-467-344A-42 | Sequence 42, Appl |
| 70 | 36 | 64.3 | 245 | 2 | US-08-424-550B-42 | Sequence 42, Appl |
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| 73 | 36 | 64.3 | 374 | 2 | US-09-442-349A-4 | Sequence 4, Appli |
| 74 | 36 | 64.3 | 374 | 2 | US-09-442-349A-64 | Sequence 64, Appl |
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| 77 | 36 | 64.3 | 374 | 2 | US-09-442-349A-67 | Sequence 67, Appl |
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| 79 | 36 | 64.3 | 374 | 2 | US-09-442-349A-69 | Sequence 69, Appl |
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| 81 | 36 | 64.3 | 374 | 2 | US-09-442-349A-71 | Sequence 71, Appl |
| 82 | 36 | 64.3 | 374 | 2 | US-09-442-349A-72 | Sequence 72, Appl |
| 83 | 36 | 64.3 | 374 | 2 | US-09-442-349A-73 | Sequence 73, Appl |
| 84 | 36 | 64.3 | 374 | 2 | US-09-442-349A-74 | Sequence 74, Appl |
| 85 | 36 | 64.3 | 374 | 2 | US-09-442-349A-75 | Sequence 75, Appl |
| 86 | 36 | 64.3 | 374 | 2 | US-09-442-349A-76 | Sequence 76, Appl |
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| 88 | 36 | 64.3 | 374 | 2 | US-09-442-349A-78 | Sequence 78, Appl |
| 89 | 36 | 64.3 | 374 | 2 | US-09-442-349A-79 | Sequence 79, Appl |
| 90 | 36 | 64.3 | 374 | 2 | US-09-442-349A-80 | Sequence 80, Appl |
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| 92 | 36 | 64.3 | 374 | 2 | US-09-442-349A-82 | Sequence 82, Appl |
| 93 | 36 | 64.3 | 374 | 2 | US-09-442-349A-83 | Sequence 83, Appl |
| 94 | 36 | 64.3 | 374 | 2 | US-09-442-349A-84 | Sequence 84, Appl |
| 95 | 36 | 64.3 | 374 | 2 | US-09-442-349A-85 | Sequence 85, Appl |
| 96 | 36 | 64.3 | 374 | 2 | US-09-442-349A-86 | Sequence 86, Appl |
| 97 | 36 | 64.3 | 374 | 2 | US-09-442-349A-87 | Sequence 87, Appl |
| 98 | 36 | 64.3 | 374 | 2 | US-09-442-349A-88 | Sequence 88, Appl |
| 99 | 36 | 64.3 | 374 | 2 | US-09-442-349A-89 | Sequence 89, Appl |
| 100 | 36 | 64.3 | 374 | 2 | US-09-442-349A-90 | Sequence 90, Appl |

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| 102 | 36 | 64.3 | 374 | 2 | US-09-442-349A-92 | Sequence 92, Appl |
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| 112 | 36 | 64.3 | 490 | 2 | US-09-865-364-26 | Sequence 26, Appl |
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| 117 | 36 | 64.3 | 926 | 2 | US-10-314-048A-104 | Sequence 104, App |
| 118 | 36 | 64.3 | 953 | 2 | US-09-099-041A-8 | Sequence 8, Appli |
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| 120 | 36 | 64.3 | 953 | 2 | US-09-207-359B-8 | Sequence 8, Appli |
| 121 | 36 | 64.3 | 953 | 2 | US-09-340-620A-8 | Sequence 8, Appli |
| 122 | 36 | 64.3 | 953 | 2 | US-09-865-364-8 | Sequence 8, Appli |
| 123 | 36 | 64.3 | 953 | 2 | US-09-728-721-8 | Sequence 8, Appli |
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| 126 | 36 | 64.3 | 959 | 2 | US-09-949-002-524 | Sequence 524, App |
| 127 | 36 | 64.3 | 1181 | 2 | US-09-826-509-587 | Sequence 587, App |
| 128 | 36 | 64.3 | 1608 | 2 | US-09-964-956-61 | Sequence 61, Appl |
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| 139 | 35 | 62.5 | 39 | 2 | US-09-857-815B-60 | Sequence 60, Appl |
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| 156 | 35 | 62.5 | 53 | 2 | US-09-857-815B-44 | Sequence 44, Appl |
| 157 | 35 | 62.5 | 53 | 2 | US-09-857-815B-63 | Sequence 63, Appl |
| 158 | 35 | 62.5 | 60 | 1 | US-08-465-794-14 | Sequence 14, Appl |
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| 165 | 35 | 62.5 | 78 | 2 | US-09-857-815B-6 | Sequence 6, Appli |
| 166 | 35 | 62.5 | 78 | 2 | US-09-857-815B-9 | Sequence 9, Appli |
| 167 | 35 | 62.5 | 79 | 2 | US-09-857-815B-5 | Sequence 5, Appli |
| 168 | 35 | 62.5 | 79 | 2 | US-09-857-815B-8 | Sequence 8, Appli |
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| 170 | 35 | 62.5 | 80 | 2 | US-08-663-191A-3 | Sequence 3, Appli |
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| 176 | 35 | 62.5 | 83 | 2 | US-09-857-815B-46 | Sequence 46, Appl |
| 177 | 35 | 62.5 | 124 | 2 | US-09-270-767-33888 | Sequence 33888, A |
| 178 | 35 | 62.5 | 129 | 2 | US-08-468-846-12 | Sequence 12, Appl |
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| 188 | 35 | 62.5 | 178 | 2 | US-08-663-191A-4 | Sequence 4, Appli |
| 189 | 35 | 62.5 | 227 | 2 | US-09-270-767-33085 | Sequence 33085, A |
| 190 | 35 | 62.5 | 343 | 1 | US-08-856-444-2 | Sequence 2, Appli |
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| 192 | 35 | 62.5 | 399 | 2 | US-09-949-016-7504 | Sequence 7504, Ap |
| 193 | 35 | 62.5 | 531 | 2 | US-08-688-988-39 | Sequence 39, Appl |
| 194 | 35 | 62.5 | 545 | 2 | US-10-195-781B-4 | Sequence 4, Appli |
| 195 | 35 | 62.5 | 551 | 2 | US-08-688-988-37 | Sequence 37, Appl |
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| 206 | 35 | 62.5 | 766 | 2 | US-09-265-606-3 | Sequence 3, Appli |
| 207 | 35 | 62.5 | 766 | 2 | US-09-518-550-27 | Sequence 27, Appl |
| 208 | 35 | 62.5 | 766 | 2 | US-10-423-714-6 | Sequence 6, Appli |
| 209 | 35 | 62.5 | 775 | 2 | US-09-949-016-10450 | Sequence 10450, A |
| 210 | 35 | 62.5 | 805 | 2 | US-09-543-681A-7900 | Sequence 7900, Ap |
| 211 | 35 | 62.5 | 831 | 2 | US-10-055-364-39 | Sequence 39, Appl |
| 212 | 35 | 62.5 | 849 | 2 | US-08-804-439A-17 | Sequence 17, Appl |
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| 216 | 34 | 60.7 | 64 | 2 | US-09-248-796A-24549 | Sequence 24549, A |
| 217 | 34 | 60.7 | 95 | 2 | US-09-270-767-37290 | Sequence 37290, A |
| 218 | 34 | 60.7 | 95 | 2 | US-09-270-767-52507 | Sequence 52507, A |
| 219 | 34 | 60.7 | 144 | 2 | US-09-949-016-10685 | Sequence 10685, A |
| 220 | 34 | 60.7 | 166 | 1 | US-08-729-103-4 | Sequence 4, Appli |
| 221 | 34 | 60.7 | 166 | 2 | US-09-949-016-6286 | Sequence 6286, Ap |
| 222 | 34 | 60.7 | 174 | 2 | US-09-949-016-10686 | Sequence 10686, A |
| 223 | 34 | 60.7 | 185 | 2 | US-09-270-767-35694 | Sequence 35694, A |
| 224 | 34 | 60.7 | 185 | 2 | US-09-270-767-50911 | Sequence 50911, A |
| 225 | 34 | 60.7 | 236 | 1 | US-08-307-499-28 | Sequence 28, Appl |
| 226 | 34 | 60.7 | 236 | 2 | US-09-299-268-28 | Sequence 28, Appl |
| 227 | 34 | 60.7 | 301 | 2 | US-09-248-796A-23478 | Sequence 23478, A |
| 228 | 34 | 60.7 | 439 | 2 | US-09-328-352-4576 | Sequence 4576, Ap |
| 229 | 34 | 60.7 | 482 | 2 | US-09-538-092-454 | Sequence 454, App |
| 230 | 34 | 60.7 | 484 | 2 | US-09-828-313-32 | Sequence 32, Appl |
| 231 | 34 | 60.7 | 614 | 2 | US-09-270-767-36832 | Sequence 36832, A |
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| 233 | 34 | 60.7 | 1133 | 2 | US-09-902-540-12243 | Sequence 12243, A |
| 234 | 34 | 60.7 | 1380 | 2 | US-09-949-016-11688 | Sequence 11688, A |
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| 236 | 33 | 58.9 | 16 | 1 | US-08-426-550-38 | Sequence 38, Appl |
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| 238 | 33 | 58.9 | 17 | 1 | US-08-426-550-21 | Sequence 21, Appl |
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| 240 | 33 | 58.9 | 18 | 1 | US-07-876-883-30 | Sequence 30, Appl |
| 241 | 33 | 58.9 | 18 | 1 | US-08-426-550-20 | Sequence 20, Appl |
| 242 | 33 | 58.9 | 18 | 1 | US-08-426-550-30 | Sequence 30, Appl |
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| 253 | 33 | 58.9 | 123 | 2 | US-09-270-767-52874 | Sequence 52874, A |
| 254 | 33 | 58.9 | 220 | 2 | US-08-896-933-20 | Sequence 20, Appl |
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| 262 | 33 | 58.9 | 221 | 2 | US-09-308-830B-14 | Sequence 14, Appl |
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| 265 | 33 | 58.9 | 249 | 2 | US-09-270-767-54878 | Sequence 54878, A |
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| 267 | 33 | 58.9 | 251 | 2 | US-08-973-391C-13 | Sequence 13, Appl |
| 268 | 33 | 58.9 | 251 | 2 | US-08-882-431B-16 | Sequence 16, Appl |
| 269 | 33 | 58.9 | 251 | 2 | US-10-625-221-13 | Sequence 13, Appl |
| 270 | 33 | 58.9 | 251 | 2 | US-09-308-830B-13 | Sequence 13, Appl |
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| 273 | 33 | 58.9 | 286 | 2 | US-09-438-185A-582 | Sequence 582, App |
| 274 | 33 | 58.9 | 303 | 2 | US-09-489-039A-8710 | Sequence 8710, Ap |
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| 276 | 33 | 58.9 | 306 | 2 | US-09-270-767-49671 | Sequence 49671, A |
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| 368 | 32 | 57.1 | 648 | 2 | US-09-949-016-8699 | Sequence 8699, Ap |
| 369 | 32 | 57.1 | 648 | 2 | US-09-949-016-8700 | Sequence 8700, Ap |
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| 379 | 32 | 57.1 | 953 | 2 | US-09-728-721-43 | Sequence 43, Appl |
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ALIGNMENTS

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RESULT 1
US-08-934-915-44
; Sequence 44, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  44:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-44

  Query Match             100.0%;  Score 56;  DB 1;  Length 20;
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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
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Db          6 EYRHYCYSL 14


RESULT 2
US-08-934-915-163
; Sequence 163, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  163:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-163

  Query Match             100.0%;  Score 56;  DB 1;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.019;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db          6 EYRHYCYSL 14


RESULT 3
US-09-980-523A-8
; Sequence 8, Application US/09980523A
```

; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: WOB1 AO INS
; CURRENT APPLICATION NUMBER: US/09/980,523A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 29
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-09-980-523A-8

Query Match 100.0%; Score 56; DB 2; Length 29;
Best Local Similarity 100.0%; Pred. No. 0.027;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
||||||||||
Db 3 EYRHYCYSL 11

RESULT 4
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
; APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
; TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 F
; TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION
; FILE REFERENCE: N73477C GCW
; CURRENT APPLICATION NUMBER: US/09/701,080C
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: GB 9811303.8
; PRIOR FILING DATE: 1998-05-26
; PRIOR APPLICATION NUMBER: GB 9900157.0
; PRIOR FILING DATE: 1999-01-05
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-09-701-080C-18

Query Match 100.0%; Score 56; DB 2; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
||||||||||
Db 75 EYRHYCYSL 83

RESULT 5
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: WOB1 AO INS
; CURRENT APPLICATION NUMBER: US/09/980,523A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-09-980-523A-2

Query Match 100.0%; Score 56; DB 2; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
||||||||||
Db 82 EYRHYCYSL 90

RESULT 6
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; APPLICANT: Parmenter, Cheryl A.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; TITLE OF INVENTION: Cervical Cancer
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jagtiani & Associates
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; REFERENCE/DOCKET NUMBER: UNME-0001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 162 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO

US-08-316-239B-3

Query Match 100.0%; Score 56; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 EYRHYCYSL 9
              |||||||||
Db         82 EYRHYCYSL 90
```

RESULT 7
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

Query Match 100.0%; Score 56; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 EYRHYCYSL 9
              |||||||||
Db         20 EYRHYCYSL 28
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RESULT 8
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

Query Match 100.0%; Score 56; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 EYRHYCYSL 9
              |||||||||
Db        151 EYRHYCYSL 159
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RESULT 9
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-12

Query Match 100.0%; Score 56; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 EYRHYCYSL 9
              |||||||||
Db         20 EYRHYCYSL 28
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RESULT 10
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-14

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  Query Match             100.0%;  Score 56;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.14;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db        151 EYRHYCYSL 159


RESULT 11
US-08-117-083-10
; Sequence 10, Application US/08117083
; Patent No. 5719054
;  GENERAL INFORMATION:
;    APPLICANT:  Boursnell, Michael E.
;    APPLICANT:  Inglis, Stephen C.
;    APPLICANT:  Munro, Alan J.
;    TITLE OF INVENTION:  Recombinant Virus Vectors Encoding Human
;    TITLE OF INVENTION:  Papilloma Virus Proteins
;    NUMBER OF SEQUENCES:  70
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Walter H. Dreger
;      STREET:  4 Embarcadero Center, Suite 3400
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/117,083
;      FILING DATE:  10-SEP-1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Dreger, Walter H.
;      REGISTRATION NUMBER:  24,190
;      REFERENCE/DOCKET NUMBER:  A-58783
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-781-1989
;      TELEFAX:  415-398-3249
;      TELEX:  910 277299
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  182 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    FEATURE:
;      NAME/KEY:  Protein
;      LOCATION:  1..182
;      OTHER INFORMATION:  /note= "Xaa refers to stop codon in
;      OTHER INFORMATION:  the open reading frame."
US-08-117-083-10

  Query Match             100.0%;  Score 56;  DB 1;  Length 182;
  Best Local Similarity   100.0%;  Pred. No. 0.15;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db         63 EYRHYCYSL 71


RESULT 12
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
;  APPLICANT:  KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION:  ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE:  017753-122
;  CURRENT APPLICATION NUMBER: US/09/462,993
;  CURRENT FILING DATE:  2000-04-17
;  PRIOR APPLICATION NUMBER:  PCT/FR98/01576
;  PRIOR FILING DATE:  1998-07-17
;  PRIOR APPLICATION NUMBER:  FR 97/09152
;  PRIOR FILING DATE:  1997-07-18
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

  Query Match             100.0%;  Score 56;  DB 2;  Length 243;
  Best Local Similarity   100.0%;  Pred. No. 0.19;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db        110 EYRHYCYSL 118


RESULT 13
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

  Query Match             100.0%;  Score 56;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.21;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db         82 EYRHYCYSL 90


RESULT 14
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
```

```
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-10

  Query Match             100.0%;  Score 56;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.21;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db         82 EYRHYCYSL 90


RESULT 15
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 56;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.21;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db         82 EYRHYCYSL 90


RESULT 16
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-4

  Query Match             100.0%;  Score 56;  DB 2;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 0.21;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db        188 EYRHYCYSL 196


RESULT 17
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-10

  Query Match             100.0%;  Score 56;  DB 2;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.22;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db        207 EYRHYCYSL 215


RESULT 18
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
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;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-6

  Query Match             100.0%;  Score 56;  DB 2;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 0.28;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db        188 EYRHYCYSL 196


RESULT 19
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-14

  Query Match             100.0%;  Score 56;  DB 2;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 0.29;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db        207 EYRHYCYSL 215


RESULT 20
US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-4

  Query Match             94.6%;  Score 53;  DB 1;  Length 162;
  Best Local Similarity   88.9%;  Pred. No. 0.38;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              ||||||||:
Db         82 EYRHYCYSV 90


RESULT 21
US-08-159-339A-76
; Sequence 76, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
```

```
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  76:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-76

  Query Match             85.7%;  Score 48;  DB 2;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 4.6e+05;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCY 7
              |||||||
Db          3 EYRHYCY 9


RESULT 22
US-09-601-729-277
; Sequence 277, Application US/09601729
; Patent No. 6683052
; GENERAL INFORMATION:
;  APPLICANT: THIAM, KADER
;  APPLICANT:  AURIAULT, CLAUDE
;  APPLICANT:  GRAS-MASSE, HELENE
;  APPLICANT:  LOING, ESTELLE
;  APPLICANT:  VERWAERDE, CLAUDIE
;  APPLICANT:  GUILLET, JEAN GERARD
;  TITLE OF INVENTION: LIPOPEPTIDES CONTAINING AN INTERFERON FRAGMENT AND USES
;  TITLE OF INVENTION:  THEREOF IN PHARMACEUTICAL COMPOSITIONS
;  FILE REFERENCE: USB-97-AU-IN
;  CURRENT APPLICATION NUMBER: US/09/601,729
;  CURRENT FILING DATE:  2000-11-20
;  PRIOR APPLICATION NUMBER: PCT/FR99/00259
;  PRIOR FILING DATE: 1999-02-05
;  PRIOR APPLICATION NUMBER: 98 01439
;  PRIOR FILING DATE: 1998-02-06
;  NUMBER OF SEQ ID NOS: 281
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 277
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;   OTHER INFORMATION: peptide
US-09-601-729-277

  Query Match             85.7%;  Score 48;  DB 2;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 4.6e+05;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCY 7
              |||||||
Db          3 EYRHYCY 9


RESULT 23
US-08-159-339A-247
; Sequence 247, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  247:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-247

  Query Match             83.9%;  Score 47;  DB 2;  Length 9;
  Best Local Similarity   88.9%;  Pred. No. 4.6e+05;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              ||||| |||
Db          1 EYRHYAYSL 9


RESULT 24
US-09-248-796A-24718
; Sequence 24718, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 24718
;   LENGTH: 63
;   TYPE: PRT
```

```
;   ORGANISM: Candida albicans
US-09-248-796A-24718

  Query Match             78.6%;  Score 44;  DB 2;  Length 63;
  Best Local Similarity   100.0%;  Pred. No. 3.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 RHYCYSL 9
              |||||||
Db         17 RHYCYSL 23


RESULT 25
US-09-107-532A-4132
; Sequence 4132, Application US/09107532A
; Patent No. 6583275
;   GENERAL INFORMATION:
;        APPLICANT: Lynn A Doucette-Stamm  and David Bush
;        TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;                            ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
;        NUMBER OF SEQUENCES: 7310
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;             STREET: 100 Beaver Street
;             CITY: Waltham
;             STATE: Massachusetts
;             COUNTRY: USA
;             ZIP: 02354
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: CD/ROM ISO9660
;             COMPUTER: PC
;             OPERATING SYSTEM: <Unknown>
;             SOFTWARE: ASCII
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/107,532A
;             FILING DATE: 30-Jun-1998
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 60/085,598
;             FILING DATE: 14 May 1998
;             APPLICATION NUMBER: 60/051571
;             FILING DATE: July 2, 1997
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Ariniello, Pamela Deneke
;             REGISTRATION NUMBER: 40,489
;             REFERENCE/DOCKET NUMBER: GTC-012
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (781)893-5007
;             TELEFAX: (781)893-8277
;   INFORMATION FOR SEQ ID NO: 4132:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 128 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        HYPOTHETICAL: YES
;        ORIGINAL SOURCE:
;             ORGANISM: Enterococcus faecium
;        FEATURE:
;             NAME/KEY:  misc_feature
;             LOCATION: (B) LOCATION 1...128
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4132:
US-09-107-532A-4132

  Query Match             75.0%;  Score 42;  DB 2;  Length 128;
  Best Local Similarity   66.7%;  Pred. No. 15;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              ::|:|||||
Db         25 KFRYYCYSL 33


RESULT 26
US-09-454-071-6
; Sequence 6, Application US/09454071
; Patent No. 6673596
; GENERAL INFORMATION:
;  APPLICANT: Sayler, Gary S.
;  APPLICANT: Simpson, Michael L.
;  APPLICANT: Applegate, Bruce M.
;  APPLICANT: Ripp, Steven A.
;  TITLE OF INVENTION: IN VIVO BIOSENSOR APPARATUS AND METHOD OF USE
;  FILE REFERENCE: 4310.004300
;  CURRENT APPLICATION NUMBER: US/09/454,071
;  CURRENT FILING DATE: 1999-12-02
;  EARLIER APPLICATION NUMBER: 60/110,684
;  EARLIER FILING DATE: 1998-12-02
;  NUMBER OF SEQ ID NOS: 7
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
;   LENGTH: 370
;   TYPE: PRT
;   ORGANISM: Xenorhabdus luminescens
US-09-454-071-6

  Query Match             73.2%;  Score 41;  DB 2;  Length 370;
  Best Local Similarity   100.0%;  Pred. No. 56;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYC 6
              ||||||
Db         54 EYRHYC 59


RESULT 27
US-08-159-339A-134
; Sequence 134, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
```

```
;       TELEX:
;  INFORMATION FOR SEQ ID NO:  134:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-134

  Query Match             69.6%;  Score 39;  DB 2;  Length 9;
  Best Local Similarity   85.7%;  Pred. No. 4.6e+05;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 EYRHYCY 7
              ||||| |
Db          3 EYRHYAY 9


RESULT 28
US-08-159-339A-1171
; Sequence 1171, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  1171:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  11 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-1171

  Query Match             69.6%;  Score 39;  DB 2;  Length 11;
  Best Local Similarity   100.0%;  Pred. No. 4.5;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 HYCYSL 9
              ||||||
Db          1 HYCYSL 6


RESULT 29
US-08-401-530A-6
; Sequence 6, Application US/08401530A
; Patent No. 5834590
;  GENERAL INFORMATION:
;    APPLICANT:  Vinik, Aaron I.
;    APPLICANT:  Pittenger, Gary L.
;    APPLICANT:  Rafaeloff, Ronit
;    APPLICANT:  Rosenberg, Lawrence
;    APPLICANT:  Duguid, William P.
;    TITLE OF INVENTION:  INGAP PROTEIN INVOLVED IN PANCREATIC
;    TITLE OF INVENTION:  ISLET NEOGENESIS
;    NUMBER OF SEQUENCES:  7
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Banner & Allegretti
;      STREET:  1001 G Street, N.W.
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  US
;      ZIP:  20001-4597
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/401,530A
;      FILING DATE:  22-FEB-1995
;      CLASSIFICATION:  800
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Kagan, Sarah A.
;      REGISTRATION NUMBER:  32,141
;      REFERENCE/DOCKET NUMBER:  00570.48743
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-508-9100
;      TELEFAX:  202-508-9299
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  174 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    ORIGINAL SOURCE:
;      ORGANISM:  Rattus rattus
US-08-401-530A-6

  Query Match             69.6%;  Score 39;  DB 1;  Length 174;
  Best Local Similarity   75.0%;  Pred. No. 57;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YRHYCYSL 9
              || |||:|
Db         46 YRSYCYTL 53


RESULT 30
US-08-709-662-6
; Sequence 6, Application US/08709662
; Patent No. 5840531
;  GENERAL INFORMATION:
;    APPLICANT:  Vinik, Aaron I.
;    APPLICANT:  Pittenger, Gary L.
;    APPLICANT:  Rafaeloff, Ronit
;    APPLICANT:  Rosenberg, Lawrence
;    APPLICANT:  Duguid, William P.
;    TITLE OF INVENTION:  INGAP PROTEIN INVOLVED IN PANCREATIC
```

;  TITLE OF INVENTION: ISLET NEOGENESIS
;  NUMBER OF SEQUENCES: 7
;  CORRESPONDENCE ADDRESS:
;  ADDRESSEE: Banner & Witcoff, Ltd.
;  STREET: 1001 G Street, N.W.
;  CITY: Washington
;  STATE: D.C.
;  COUNTRY: US
;  ZIP: 20001-4597
;  COMPUTER READABLE FORM:
;  MEDIUM TYPE: Floppy disk
;  COMPUTER: IBM PC compatible
;  OPERATING SYSTEM: PC-DOS/MS-DOS
;  SOFTWARE: PatentIn Release #1.0, Version #1.25
;  CURRENT APPLICATION DATA:
;  APPLICATION NUMBER: US/08/709,662
;  FILING DATE: 09-SEP-1996
;  CLASSIFICATION: 435
;  ATTORNEY/AGENT INFORMATION:
;  NAME: Kagan, Sarah A.
;  REGISTRATION NUMBER: 32,141
;  REFERENCE/DOCKET NUMBER: 00570.59178
;  TELECOMMUNICATION INFORMATION:
;  TELEPHONE: 202-508-9100
;  TELEFAX: 202-508-9299
;  INFORMATION FOR SEQ ID NO: 6:
;  SEQUENCE CHARACTERISTICS:
;  LENGTH: 174 amino acids
;  TYPE: amino acid
;  TOPOLOGY: linear
;  MOLECULE TYPE: protein
;  ORIGINAL SOURCE:
;  ORGANISM: Rattus rattus
US-08-709-662-6

Query Match 69.6%; Score 39; DB 1; Length 174;
Best Local Similarity 75.0%; Pred. No. 57;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 YRHYCYSL 9
|| |||:|
Db 46 YRSYCYTL 53

RESULT 31
US-09-489-039A-13995
; Sequence 13995, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 13995
; LENGTH: 169
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-13995

Query Match 67.9%; Score 38; DB 2; Length 169;
Best Local Similarity 66.7%; Pred. No. 78;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
|||:| :|
Db 83 EYRHHCDTL 91

RESULT 32
US-09-949-016-5911
; Sequence 5911, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5911
; LENGTH: 493
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-5911

Query Match 67.9%; Score 38; DB 2; Length 493;
Best Local Similarity 71.4%; Pred. No. 2.1e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 YRHYCYS 8
: |||||
Db 226 FEHYCYS 232

RESULT 33
US-09-949-016-7409
; Sequence 7409, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7409
; LENGTH: 499
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-7409

Query Match 67.9%; Score 38; DB 2; Length 499;
Best Local Similarity 71.4%; Pred. No. 2.1e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 YRHYCYS 8
: |||||
Db 232 FEHYCYS 238

RESULT 34
US-09-248-796A-22612
; Sequence 22612, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:

```
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 22612
;   LENGTH: 75
;   TYPE: PRT
;   ORGANISM: Candida albicans
US-09-248-796A-22612

  Query Match             66.1%;  Score 37;  DB 2;  Length 75;
  Best Local Similarity   66.7%;  Pred. No. 53;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              || :||| |
Db         58 EYMNYCYIL 66


RESULT 35
US-09-248-796A-21392
; Sequence 21392, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 21392
;   LENGTH: 99
;   TYPE: PRT
;   ORGANISM: Candida albicans
US-09-248-796A-21392

  Query Match             66.1%;  Score 37;  DB 2;  Length 99;
  Best Local Similarity   71.4%;  Pred. No. 68;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 RHYCYSL 9
              :|||:||
Db          6 KHYCFSL 12


RESULT 36
US-09-248-796A-18861
; Sequence 18861, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 18861
;   LENGTH: 393
;   TYPE: PRT
;   ORGANISM: Candida albicans
US-09-248-796A-18861

  Query Match             66.1%;  Score 37;  DB 2;  Length 393;
  Best Local Similarity   75.0%;  Pred. No. 2.4e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYS 8
              ||  ||||
Db        228 EYLEYCYS 235


RESULT 37
US-08-158-735A-2
; Sequence 2, Application US/08158735A
; Patent No. 6248554
;  GENERAL INFORMATION:
;    APPLICANT:  COOK, JONATHAN S.
;    APPLICANT:  CORREA, PAUL E.
;    APPLICANT:  KOENIG, BETH B.
;    APPLICANT:  ROSENBAUM, JAN S.
;    APPLICANT:  TING, JERRY
;    TITLE OF INVENTION:  DNA SEQUENCE CODING FOR A BMP RECEPTOR
;    NUMBER OF SEQUENCES:  22
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  THE PROCTER & GAMBLE COMPANY
;      STREET:  11810 EAST MIAMI RIVER ROAD
;      CITY:  ROSS
;      STATE:  OH
;      COUNTRY:  USA
;      ZIP:  45061
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/158,735A
;      FILING DATE:  24-NOV-1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  CORSTANJE, BRAHM J.
;      REGISTRATION NUMBER:  34,804
;      REFERENCE/DOCKET NUMBER:  5088
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (513) 627-2858
;      TELEFAX:  (513) 627-0260
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  500 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-158-735A-2

  Query Match             66.1%;  Score 37;  DB 2;  Length 500;
  Best Local Similarity   62.5%;  Pred. No. 3e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YRHYCYSL 9
              |:||| |:
Db        176 YKHYCKSI 183


RESULT 38
US-08-481-337A-6
; Sequence 6, Application US/08481337A
; Patent No. 5863738
;  GENERAL INFORMATION:
;    APPLICANT:  TEN DIJKE, Peter
```

```
;    APPLICANT:  HELDIN, Carl-Henrik
;    APPLICANT:  MIYAZONO, Kohei
;    APPLICANT:  SAMPATH, Kuber T.
;    TITLE OF INVENTION:  Morphogenic Protein-Specific Cell
;    TITLE OF INVENTION:  Surface Receptors and Uses Therefor
;    NUMBER OF SEQUENCES:  18
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Testa, Hurwitz & Thibeault
;      STREET:  125 High St.
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02110
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/481,337A
;      FILING DATE:  02-JUN-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  MEYERS, Thomas C.
;      REGISTRATION NUMBER:  36,989
;      REFERENCE/DOCKET NUMBER:  CRP-097CP2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 248-7000
;      TELEFAX:  (617) 248-7100
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  532 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-481-337A-6

  Query Match             66.1%;  Score 37;  DB 1;  Length 532;
  Best Local Similarity   62.5%;  Pred. No. 3.2e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YRHYCYSL 9
              |:||| |:
Db        176 YKHYCKSI 183


RESULT 39
US-09-382-256-6
; Sequence 6, Application US/09382256A
; Patent No. 6207814
;   GENERAL INFORMATION:
;        APPLICANT: MIYAZONO, Kohei
;                   TEN DIJKE, Peter
;                   FRANZEN, Petra
;                   YAMASHITA, Hidetoshi
;                   HELDIN, Carl-Henrik
;        TITLE OF INVENTION: ACTIVIN RECEPTOR LIKE KINASES, PROTEINS
;                            HAVING SERINE THREONINE KINASE DOMAINS,
;                            AND THEIR USE
;        NUMBER OF SEQUENCES: 29
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Fulbright & Jaworski L.L.P.
;             STREET: 666 Fifth Avenue
;             CITY: New York City
;             STATE: New York
;             COUNTRY: USA
;             ZIP: 10103
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Diskette, 3.25 inch, 1.44mb
;             COMPUTER: IBM PS/2
;             OPERATING SYSTEM: PC-DOS
;             SOFTWARE: Wordperfect
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/382,256A
;             FILING DATE: 24-Aug-1999
;             CLASSIFICATION: 514
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: PCT/GB93/02367
;             FILING DATE: No. 6207814ember 17, 1993
;             APPLICATION NUMBER: GB 9224057.1
;             FILING DATE: No. 6207814ember 17, 1992
;             APPLICATION NUMBER: GB 9304677.9
;             FILING DATE: March 8, 1993
;             APPLICATION NUMBER: GB 9304680.3
;             FILING DATE: March 8, 1993
;             APPLICATION NUMBER: 9311047.6
;             FILING DATE: May 28, 1993
;             APPLICATION NUMBER: 9313763.6
;             FILING DATE: July 2, 1993
;             APPLICATION NUMBER: 9316099.2
;             FILING DATE: August 3, 1993
;             APPLICATION NUMBER: 321344.5
;             FILING DATE: October 15, 1993
;        ATTORNEY/AGENT INFORMATION:
;             NAME: No. 6207814man D. Hanson
;             REGISTRATION NUMBER: 30,946
;             REFERENCE/DOCKET NUMBER: LUD 5298.1
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (212) 318-3000
;             TELEFAX: (212) 752-5958
;   INFORMATION FOR SEQ ID NO: 6:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 532 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-09-382-256-6

  Query Match             66.1%;  Score 37;  DB 2;  Length 532;
  Best Local Similarity   62.5%;  Pred. No. 3.2e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YRHYCYSL 9
              |:||| |:
Db        176 YKHYCKSI 183


RESULT 40
US-09-382-256-14
; Sequence 14, Application US/09382256A
; Patent No. 6207814
;   GENERAL INFORMATION:
;        APPLICANT: MIYAZONO, Kohei
;                   TEN DIJKE, Peter
;                   FRANZEN, Petra
;                   YAMASHITA, Hidetoshi
;                   HELDIN, Carl-Henrik
;        TITLE OF INVENTION: ACTIVIN RECEPTOR LIKE KINASES, PROTEINS
;                            HAVING SERINE THREONINE KINASE DOMAINS,
;                            AND THEIR USE
;        NUMBER OF SEQUENCES: 29
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Fulbright & Jaworski L.L.P.
;             STREET: 666 Fifth Avenue
;             CITY: New York City
;             STATE: New York
;             COUNTRY: USA
;             ZIP: 10103
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Diskette, 3.25 inch, 1.44mb
;             COMPUTER: IBM PS/2
;             OPERATING SYSTEM: PC-DOS
;             SOFTWARE: Wordperfect
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/382,256A
```

```
;            FILING DATE: 24-Aug-1999
;            CLASSIFICATION: 514
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: PCT/GB93/02367
;            FILING DATE: No. 6207814ember 17, 1993
;            APPLICATION NUMBER: GB 9224057.1
;            FILING DATE: No. 6207814ember 17, 1992
;            APPLICATION NUMBER: GB 9304677.9
;            FILING DATE: March 8, 1993
;            APPLICATION NUMBER: GB 9304680.3
;            FILING DATE: March 8, 1993
;            APPLICATION NUMBER: 9311047.6
;            FILING DATE: May 28, 1993
;            APPLICATION NUMBER: 9313763.6
;            FILING DATE: July 2, 1993
;            APPLICATION NUMBER: 9316099.2
;            FILING DATE: August 3, 1993
;            APPLICATION NUMBER: 321344.5
;            FILING DATE: October 15, 1993
;       ATTORNEY/AGENT INFORMATION:
;            NAME: No. 6207814man D. Hanson
;            REGISTRATION NUMBER: 30,946
;            REFERENCE/DOCKET NUMBER: LUD 5298.1
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (212) 318-3000
;            TELEFAX: (212) 752-5958
;  INFORMATION FOR SEQ ID NO: 14:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 532 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       SEQUENCE DESCRIPTION: SEQ ID NO: 14:
US-09-382-256-14

  Query Match             66.1%;  Score 37;  DB 2;  Length 532;
  Best Local Similarity   62.5%;  Pred. No. 3.2e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YRHYCYSL 9
              |:||| |:
Db        176 YKHYCKSI 183


RESULT 41
US-08-158-735A-4
; Sequence 4, Application US/08158735A
; Patent No. 6248554
;  GENERAL INFORMATION:
;    APPLICANT:  COOK, JONATHAN S.
;    APPLICANT:  CORREA, PAUL E.
;    APPLICANT:  KOENIG, BETH B.
;    APPLICANT:  ROSENBAUM, JAN S.
;    APPLICANT:  TING, JERRY
;    TITLE OF INVENTION:  DNA SEQUENCE CODING FOR A BMP RECEPTOR
;    NUMBER OF SEQUENCES:  22
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  THE PROCTER & GAMBLE COMPANY
;      STREET:  11810 EAST MIAMI RIVER ROAD
;      CITY:  ROSS
;      STATE:  OH
;      COUNTRY:  USA
;      ZIP:  45061
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/158,735A
;      FILING DATE:  24-NOV-1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  CORSTANJE, BRAHM J.
;      REGISTRATION NUMBER:  34,804
;      REFERENCE/DOCKET NUMBER:  5088
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (513) 627-2858
;      TELEFAX:  (513) 627-0260
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  532 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-158-735A-4

  Query Match             66.1%;  Score 37;  DB 2;  Length 532;
  Best Local Similarity   62.5%;  Pred. No. 3.2e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YRHYCYSL 9
              |:||| |:
Db        176 YKHYCKSI 183


RESULT 42
US-09-395-115-6
; Sequence 6, Application US/09395115
; Patent No. 6271365
;  GENERAL INFORMATION:
;    APPLICANT:  Miyazono, Kohei; Dijke, Peter Ten;
;    APPLICANT:  Franzen, Petra; Yamashita, Hidetoshi; Heldin, Carl-Henrik
;    TITLE OF INVENTION:  Activin Receptor-Like Kinase, Proteins
;    TITLE OF INVENTION:  Having Serine Threonine Kinase Domains And Their Use
;    NUMBER OF SEQUENCES:  29
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Felfe & Lynch
;      STREET:  805 Third Avenue
;      CITY:  New York City
;      STATE:  New York
;      ZIP:  10022
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette, 3.5 inch, 360 kb storage
;      COMPUTER:  IBM
;      OPERATING SYSTEM:  PC-DOS
;      SOFTWARE:  Wordperfect
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/395,115
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/436,265
;      FILING DATE:  30-October-1995
;      APPLICATION NUMBER:  PCT/GB93/02367
;      FILING DATE:  17-No. 6271365ember-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  9224057.1
;      FILING DATE:  17-No. 6271365ember-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  9304677.9
;      FILING DATE:  8-March-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  9304680.3
;      FILING DATE:  8-March-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  9311047.6
;      FILING DATE:  28-May-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  9313763.6
;      FILING DATE:  2-July-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  9136099.2
;      FILING DATE:  3-August-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  9321344.5
```

```
;      FILING DATE:  15-October-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Kohlei, Vineet
;      REGISTRATION NUMBER:  37,003
;      REFERENCE/DOCKET NUMBER:  LUD 5298
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 688-9200
;      TELEFAX:  (212) 838-3884
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  532 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-395-115-6

  Query Match             66.1%;  Score 37;  DB 2;  Length 532;
  Best Local Similarity   62.5%;  Pred. No. 3.2e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YRHYCYSL 9
              |:||| |:
Db        176 YKHYCKSI 183


RESULT 43
US-09-395-115-14
; Sequence 14, Application US/09395115
; Patent No. 6271365
;  GENERAL INFORMATION:
;    APPLICANT:  Miyazono, Kohei; Dijke, Peter Ten;
;    APPLICANT:  Franzen, Petra; Yamashita, Hidetoshi; Heldin, Carl-Henrik
;    TITLE OF INVENTION:  Activin Receptor-Like Kinase, Proteins
;    TITLE OF INVENTION:  Having Serine Threonine Kinase Domains And Their Use
;    NUMBER OF SEQUENCES:  29
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Felfe & Lynch
;      STREET:  805 Third Avenue
;      CITY:  New York City
;      STATE:  New York
;      ZIP:  10022
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette, 3.5 inch, 360 kb storage
;      COMPUTER:  IBM
;      OPERATING SYSTEM:  PC-DOS
;      SOFTWARE:  Wordperfect
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/395,115
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/436,265
;      FILING DATE:  30-October-1995
;      APPLICATION NUMBER:  PCT/GB93/02367
;      FILING DATE:  17-No. 6271365ember-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  9224057.1
;      FILING DATE:  17-No. 6271365ember-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  9304677.9
;      FILING DATE:  8-March-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  9304680.3
;      FILING DATE:  8-March-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  9311047.6
;      FILING DATE:  28-May-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  9313763.6
;      FILING DATE:  2-July-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  9136099.2
;      FILING DATE:  3-August-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  9321344.5
;      FILING DATE:  15-October-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Kohlei, Vineet
;      REGISTRATION NUMBER:  37,003
;      REFERENCE/DOCKET NUMBER:  LUD 5298
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 688-9200
;      TELEFAX:  (212) 838-3884
;  INFORMATION FOR SEQ ID NO:  14:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  532 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-395-115-14

  Query Match             66.1%;  Score 37;  DB 2;  Length 532;
  Best Local Similarity   62.5%;  Pred. No. 3.2e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YRHYCYSL 9
              |:||| |:
Db        176 YKHYCKSI 183


RESULT 44
US-08-123-934A-2
; Sequence 2, Application US/08123934A
; Patent No. 6291206
;  GENERAL INFORMATION:
;    APPLICANT:  WOZNEY, John
;    APPLICANT:  CELESTE, Anthony J.
;    APPLICANT:  THIES, R. Scott
;    APPLICANT:  YAMAJI, No. 6291206oru
;    TITLE OF INVENTION:  RECEPTOR PROTEINS
;    NUMBER OF SEQUENCES:  19
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Genetics Institute Inc.- Legal Affairs
;      STREET:  87 CambridgePark Drive
;      CITY:  Cambridge
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02140
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/123,934A
;      FILING DATE:  17-SEP-1993
;      CLASSIFICATION:  530
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LAZAR, Steven R
;      REGISTRATION NUMBER:  32,618
;      REFERENCE/DOCKET NUMBER:  5203
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617 876 1170
;      TELEFAX:  617 876 5851
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  532 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-123-934A-2

  Query Match             66.1%;  Score 37;  DB 2;  Length 532;
  Best Local Similarity   62.5%;  Pred. No. 3.2e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;
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Qy          2 YRHYCYSL 9
              |:||| |:
Db        176 YKHYCKSI 183


RESULT 45
US-08-334-179A-12
; Sequence 12, Application US/08334179A
; Patent No. 6306622
;  GENERAL INFORMATION:
;    APPLICANT:  ROSENBAUM, JAN S.
;    APPLICANT:  NOHNO, TSUTOMU
;    TITLE OF INVENTION:  cDNA ENCODING A BMP TYPE II RECEPTOR
;    NUMBER OF SEQUENCES:  14
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  THE PROCTER AND GAMBLE COMPANY
;      STREET:  11810 EAST MIAMI RIVER ROAD
;      CITY:  ROSS
;      STATE:  OH
;      COUNTRY:  US
;      ZIP:  45061
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.30, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/334,179A
;      FILING DATE:  04-NOV-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  CORSTANJE, BRAHM J.
;      REGISTRATION NUMBER:  34,804
;      REFERENCE/DOCKET NUMBER:  5473
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  513-627-2858
;      TELEFAX:  513-627-0260
;  INFORMATION FOR SEQ ID NO:  12:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  532 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-334-179A-12

  Query Match             66.1%;  Score 37;  DB 2;  Length 532;
  Best Local Similarity   62.5%;  Pred. No. 3.2e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YRHYCYSL 9
              |:||| |:
Db        176 YKHYCKSI 183


RESULT 46
US-08-436-265-6
; Sequence 6, Application US/08436265
; Patent No. 6316217
;  GENERAL INFORMATION:
;    APPLICANT:  Miyazono, Kohei; Dijke, Peter Ten;
;    APPLICANT:  Franzen, Petra; Yamashita, Hidetoshi; Heldin, Carl-Henrik
;    TITLE OF INVENTION:  Activin Receptor-Like Kinase, Proteins
;    TITLE OF INVENTION:  Having Serine Threonine Kinase Domains And Their Use
;    NUMBER OF SEQUENCES:  29
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Felfe & Lynch
;      STREET:  805 Third Avenue
;      CITY:  New York City
;      STATE:  New York
;      ZIP:  10022
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette, 3.5 inch, 360 kb storage
;      COMPUTER:  IBM
;      OPERATING SYSTEM:  PC-DOS
;      SOFTWARE:  Wordperfect
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/436,265
;      FILING DATE:  30-October-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/GB93/02367
;      FILING DATE:  17-No. 6316217ember-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  9224057.1
;      FILING DATE:  17-No. 6316217ember-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  9304677.9
;      FILING DATE:  8-March-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  9304680.3
;      FILING DATE:  8-March-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  9311047.6
;      FILING DATE:  28-May-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  9313763.6
;      FILING DATE:  2-July-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  9136099.2
;      FILING DATE:  3-August-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  9321344.5
;      FILING DATE:  15-October-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Kohlei, Vineet
;      REGISTRATION NUMBER:  37,003
;      REFERENCE/DOCKET NUMBER:  LUD 5298
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 688-9200
;      TELEFAX:  (212) 838-3884
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  532 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-436-265-6

  Query Match             66.1%;  Score 37;  DB 2;  Length 532;
  Best Local Similarity   62.5%;  Pred. No. 3.2e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YRHYCYSL 9
              |:||| |:
Db        176 YKHYCKSI 183


RESULT 47
US-08-436-265-14
; Sequence 14, Application US/08436265
; Patent No. 6316217
;  GENERAL INFORMATION:
;    APPLICANT:  Miyazono, Kohei; Dijke, Peter Ten;
;    APPLICANT:  Franzen, Petra; Yamashita, Hidetoshi; Heldin, Carl-Henrik
;    TITLE OF INVENTION:  Activin Receptor-Like Kinase, Proteins
;    TITLE OF INVENTION:  Having Serine Threonine Kinase Domains And Their Use
;    NUMBER OF SEQUENCES:  29
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Felfe & Lynch
;      STREET:  805 Third Avenue
;      CITY:  New York City
;      STATE:  New York
;      ZIP:  10022
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette, 3.5 inch, 360 kb storage
;      COMPUTER:  IBM
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;       OPERATING SYSTEM:  PC-DOS
;       SOFTWARE:  Wordperfect
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/436,265
;       FILING DATE:  30-October-1995
;       CLASSIFICATION:  435
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  PCT/GB93/02367
;       FILING DATE:  17-No. 6316217ember-1993
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  9224057.1
;       FILING DATE:  17-No. 6316217ember-1992
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  9304677.9
;       FILING DATE:  8-March-1993
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  9304680.3
;       FILING DATE:  8-March-1993
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  9311047.6
;       FILING DATE:  28-May-1993
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  9313763.6
;       FILING DATE:  2-July-1993
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  9136099.2
;       FILING DATE:  3-August-1993
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  9321344.5
;       FILING DATE:  15-October-1993
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Kohlei, Vineet
;       REGISTRATION NUMBER:  37,003
;       REFERENCE/DOCKET NUMBER:  LUD 5298
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (212) 688-9200
;       TELEFAX:  (212) 838-3884
;   INFORMATION FOR SEQ ID NO:  14:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  532 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-08-436-265-14

  Query Match             66.1%;  Score 37;  DB 2;  Length 532;
  Best Local Similarity   62.5%;  Pred. No. 3.2e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YRHYCYSL 9
              |:||| |:
Db        176 YKHYCKSI 183


RESULT 48
US-09-679-187-6
; Sequence 6, Application US/09679187
; Patent No. 6331621
;  GENERAL INFORMATION:
;     APPLICANT:  Miyazono, Kohei; Dijke, Peter Ten;
;     APPLICANT:  Franzen, Petra; Yamashita, Hidetoshi; Heldin, Carl-Henrik
;     TITLE OF INVENTION:  Activin Receptor-Like Kinase, Proteins
;     TITLE OF INVENTION:  Having Serine Threonine Kinase Domains And Their Use
;     NUMBER OF SEQUENCES:  29
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Felfe & Lynch
;       STREET:  805 Third Avenue
;       CITY:  New York City
;       STATE:  New York
;       ZIP:  10022
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Diskette, 3.5 inch, 360 kb storage
;       COMPUTER:  IBM
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;       OPERATING SYSTEM:  PC-DOS
;       SOFTWARE:  Wordperfect
;     CURRENT APPLICATION DATA:
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;       FILING DATE:  03-OCT-2000
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/436,265
;       FILING DATE:  30-October-1995
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  PCT/GB93/02367
;       FILING DATE:  17-No. 6331621ember-1993
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  9224057.1
;       FILING DATE:  17-No. 6331621ember-1992
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  9304677.9
;       FILING DATE:  8-March-1993
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  9304680.3
;       FILING DATE:  8-March-1993
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  9311047.6
;       FILING DATE:  28-May-1993
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  9313763.6
;       FILING DATE:  2-July-1993
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  9136099.2
;       FILING DATE:  3-August-1993
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  9321344.5
;       FILING DATE:  15-October-1993
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Kohlei, Vineet
;       REGISTRATION NUMBER:  37,003
;       REFERENCE/DOCKET NUMBER:  LUD 5298
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (212) 688-9200
;       TELEFAX:  (212) 838-3884
;   INFORMATION FOR SEQ ID NO:  6:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  532 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-09-679-187-6

  Query Match             66.1%;  Score 37;  DB 2;  Length 532;
  Best Local Similarity   62.5%;  Pred. No. 3.2e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YRHYCYSL 9
              |:||| |:
Db        176 YKHYCKSI 183


RESULT 49
US-09-679-187-14
; Sequence 14, Application US/09679187
; Patent No. 6331621
;  GENERAL INFORMATION:
;     APPLICANT:  Miyazono, Kohei; Dijke, Peter Ten;
;     APPLICANT:  Franzen, Petra; Yamashita, Hidetoshi; Heldin, Carl-Henrik
;     TITLE OF INVENTION:  Activin Receptor-Like Kinase, Proteins
;     TITLE OF INVENTION:  Having Serine Threonine Kinase Domains And Their Use
;     NUMBER OF SEQUENCES:  29
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Felfe & Lynch
;       STREET:  805 Third Avenue
;       CITY:  New York City
;       STATE:  New York
;       ZIP:  10022
;     COMPUTER READABLE FORM:
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;       MEDIUM TYPE:  Diskette, 3.5 inch, 360 kb storage
;       COMPUTER:  IBM
;       OPERATING SYSTEM:  PC-DOS
;       SOFTWARE:  Wordperfect
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/09/679,187
;       FILING DATE:  03-OCT-2000
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/436,265
;       FILING DATE:  30-October-1995
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  PCT/GB93/02367
;       FILING DATE:  17-No. 6331621ember-1993
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  9224057.1
;       FILING DATE:  17-No. 6331621ember-1992
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  9304677.9
;       FILING DATE:  8-March-1993
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  9304680.3
;       FILING DATE:  8-March-1993
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  9311047.6
;       FILING DATE:  28-May-1993
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  9313763.6
;       FILING DATE:  2-July-1993
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  9136099.2
;       FILING DATE:  3-August-1993
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  9321344.5
;       FILING DATE:  15-October-1993
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Kohlei, Vineet
;       REGISTRATION NUMBER:  37,003
;       REFERENCE/DOCKET NUMBER:  LUD 5298
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (212) 688-9200
;       TELEFAX:  (212) 838-3884
;   INFORMATION FOR SEQ ID NO:  14:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  532 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-09-679-187-14

  Query Match             66.1%;  Score 37;  DB 2;  Length 532;
  Best Local Similarity   62.5%;  Pred. No. 3.2e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YRHYCYSL 9
              |:||| |:
Db        176 YKHYCKSI 183


RESULT 50
US-09-874-628-2
; Sequence 2, Application US/09874628
; Patent No. 6610513
;   GENERAL INFORMATION:
;       APPLICANT: WOZNEY, John
;                  CELESTE, Anthony J.
;                  THIES, R. Scott
;                  YAMAJI, No. 6610513oru
;       TITLE OF INVENTION: RECEPTOR PROTEINS
;       NUMBER OF SEQUENCES: 19
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: Genetics Institute Inc.- Legal Affairs
;            STREET: 87 CambridgePark Drive
;            CITY: Cambridge
;            STATE: MA
;            COUNTRY: USA
;            ZIP: 02140
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.25
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/874,628
;            FILING DATE: 05-Jun-2001
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 08/123,934
;            FILING DATE: 17-SEP-1993
;       ATTORNEY/AGENT INFORMATION:
;            NAME: LAZAR, Steven R
;            REGISTRATION NUMBER: 32,618
;            REFERENCE/DOCKET NUMBER: 5203
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: 617 876 1170
;            TELEFAX: 617 876 5851
;   INFORMATION FOR SEQ ID NO: 2:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 532 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-874-628-2

  Query Match             66.1%;  Score 37;  DB 2;  Length 532;
  Best Local Similarity   62.5%;  Pred. No. 3.2e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YRHYCYSL 9
              |:||| |:
Db        176 YKHYCKSI 183


Search completed: May  5, 2006, 04:00:41
Job time : 24 secs
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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:07:45 ; Search time 55.8 Seconds
(without alignments)
67.392 Million cell updates/sec

Title: US-08-170-344-70
Perfect score: 56
Sequence: 1 EYRHYCYSL 9

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Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_Main:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
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| 1 | 56 | 100.0 | 9 | 4 | US-10-239-313A-313 | Sequence 313, App |
| 2 | 56 | 100.0 | 9 | 5 | US-10-751-845-86 | Sequence 86, Appl |
| 3 | 56 | 100.0 | 10 | 5 | US-10-751-845-80 | Sequence 80, Appl |
| 4 | 56 | 100.0 | 10 | 5 | US-10-751-845-93 | Sequence 93, Appl |
| 5 | 56 | 100.0 | 15 | 4 | US-10-476-570-31 | Sequence 31, Appl |
| 6 | 56 | 100.0 | 15 | 4 | US-10-476-570-32 | Sequence 32, Appl |
| 7 | 56 | 100.0 | 15 | 4 | US-10-476-570-33 | Sequence 33, Appl |
| 8 | 56 | 100.0 | 20 | 4 | US-10-476-570-12 | Sequence 12, Appl |
| 9 | 56 | 100.0 | 23 | 5 | US-10-751-845-66 | Sequence 66, Appl |
| 10 | 56 | 100.0 | 29 | 4 | US-10-476-570-55 | Sequence 55, Appl |
| 11 | 56 | 100.0 | 29 | 5 | US-10-858-384-8 | Sequence 8, Appli |
| 12 | 56 | 100.0 | 117 | 5 | US-10-751-845-126 | Sequence 126, App |
| 13 | 56 | 100.0 | 158 | 5 | US-10-858-384-2 | Sequence 2, Appli |
| 14 | 56 | 100.0 | 158 | 5 | US-10-367-057-16 | Sequence 16, Appl |
| 15 | 56 | 100.0 | 158 | 6 | US-11-021-949-13 | Sequence 13, Appl |
| 16 | 56 | 100.0 | 171 | 4 | US-10-472-724-2 | Sequence 2, Appli |
| 17 | 56 | 100.0 | 236 | 5 | US-10-751-845-157 | Sequence 157, App |
| 18 | 56 | 100.0 | 237 | 5 | US-10-751-845-158 | Sequence 158, App |
| 19 | 56 | 100.0 | 243 | 6 | US-11-072-288-1 | Sequence 1, Appli |
| 20 | 56 | 100.0 | 261 | 5 | US-10-751-845-160 | Sequence 160, App |
| 21 | 56 | 100.0 | 266 | 3 | US-09-367-309A-1 | Sequence 1, Appli |
| 22 | 56 | 100.0 | 273 | 4 | US-10-000-903-4 | Sequence 4, Appli |
| 23 | 56 | 100.0 | 273 | 5 | US-10-899-771-4 | Sequence 4, Appli |
| 24 | 56 | 100.0 | 292 | 4 | US-10-000-903-10 | Sequence 10, Appl |
| 25 | 56 | 100.0 | 292 | 5 | US-10-899-771-10 | Sequence 10, Appl |
| 26 | 56 | 100.0 | 371 | 4 | US-10-000-903-6 | Sequence 6, Appli |
| 27 | 56 | 100.0 | 371 | 5 | US-10-899-771-6 | Sequence 6, Appli |
| 28 | 56 | 100.0 | 390 | 4 | US-10-000-903-14 | Sequence 14, Appl |
| 29 | 56 | 100.0 | 390 | 5 | US-10-899-771-14 | Sequence 14, Appl |
| 30 | 53 | 94.6 | 151 | 4 | US-10-177-390-6 | Sequence 6, Appli |
| 31 | 53 | 94.6 | 151 | 5 | US-10-484-063-20 | Sequence 20, Appl |
| 32 | 53 | 94.6 | 151 | 5 | US-10-484-063-27 | Sequence 27, Appl |
| 33 | 52 | 92.9 | 10 | 5 | US-10-751-845-75 | Sequence 75, Appl |
| 34 | 48 | 85.7 | 9 | 5 | US-10-751-845-70 | Sequence 70, Appl |
| 35 | 48 | 85.7 | 10 | 5 | US-10-751-845-76 | Sequence 76, Appl |
| 36 | 44 | 78.6 | 15 | 4 | US-10-476-570-34 | Sequence 34, Appl |
| 37 | 44 | 78.6 | 148 | 6 | US-11-021-949-17 | Sequence 17, Appl |
| 38 | 44 | 78.6 | 149 | 6 | US-11-021-949-15 | Sequence 15, Appl |
| 39 | 43 | 76.8 | 98 | 4 | US-10-425-115-217471 | Sequence 217471, |
| 40 | 42 | 75.0 | 452 | 5 | US-10-450-763-34892 | Sequence 34892, A |
| 41 | 41 | 73.2 | 9 | 5 | US-10-751-845-78 | Sequence 78, Appl |
| 42 | 41 | 73.2 | 149 | 6 | US-11-021-949-16 | Sequence 16, Appl |
| 43 | 41 | 73.2 | 224 | 6 | US-11-097-143-12297 | Sequence 12297, A |
| 44 | 39 | 69.6 | 9 | 5 | US-10-751-845-88 | Sequence 88, Appl |
| 45 | 39 | 69.6 | 10 | 5 | US-10-751-845-91 | Sequence 91, Appl |
| 46 | 38 | 67.9 | 227 | 4 | US-10-425-114-38060 | Sequence 38060, A |
| 47 | 38 | 67.9 | 375 | 4 | US-10-424-599-274361 | Sequence 274361, |
| 48 | 38 | 67.9 | 387 | 4 | US-10-425-114-49909 | Sequence 49909, A |
| 49 | 38 | 67.9 | 392 | 4 | US-10-406-686A-65 | Sequence 65, Appl |
| 50 | 38 | 67.9 | 415 | 4 | US-10-425-115-191132 | Sequence 191132, |
| 51 | 38 | 67.9 | 416 | 4 | US-10-437-963-139343 | Sequence 139343, |
| 52 | 38 | 67.9 | 432 | 4 | US-10-425-115-266645 | Sequence 266645, |
| 53 | 38 | 67.9 | 452 | 5 | US-10-489-695-25 | Sequence 25, Appl |
| 54 | 38 | 67.9 | 463 | 4 | US-10-437-963-202584 | Sequence 202584, |
| 55 | 38 | 67.9 | 467 | 5 | US-10-489-695-8 | Sequence 8, Appli |
| 56 | 38 | 67.9 | 471 | 5 | US-10-489-695-26 | Sequence 26, Appl |
| 57 | 38 | 67.9 | 476 | 4 | US-10-425-114-41946 | Sequence 41946, A |
| 58 | 38 | 67.9 | 504 | 5 | US-10-450-763-35901 | Sequence 35901, A |
| 59 | 38 | 67.9 | 1362 | 4 | US-10-425-115-283301 | Sequence 283301, |
| 60 | 38 | 67.9 | 1815 | 6 | US-11-097-143-31596 | Sequence 31596, A |
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| 71 | 37 | 66.1 | 532 | 3 | US-09-982-543A-6 | Sequence 6, Appli |
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| 74 | 37 | 66.1 | 532 | 4 | US-10-463-190-102 | Sequence 102, App |
| 75 | 37 | 66.1 | 532 | 4 | US-10-463-190-105 | Sequence 105, App |
| 76 | 37 | 66.1 | 532 | 4 | US-10-463-190-106 | Sequence 106, App |
| 77 | 37 | 66.1 | 532 | 4 | US-10-463-190-107 | Sequence 107, App |
| 78 | 37 | 66.1 | 532 | 4 | US-10-463-190-110 | Sequence 110, App |
| 79 | 37 | 66.1 | 532 | 4 | US-10-600-645-2 | Sequence 2, Appli |
| 80 | 37 | 66.1 | 532 | 5 | US-10-739-413-6 | Sequence 6, Appli |
| 81 | 37 | 66.1 | 532 | 5 | US-10-739-413-14 | Sequence 14, Appl |
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| 83 | 37 | 66.1 | 532 | 5 | US-10-868-497-74 | Sequence 74, Appl |
| 84 | 37 | 66.1 | 532 | 5 | US-10-868-497-75 | Sequence 75, Appl |
| 85 | 37 | 66.1 | 532 | 5 | US-10-868-497-76 | Sequence 76, Appl |
| 86 | 37 | 66.1 | 532 | 5 | US-10-868-497-79 | Sequence 79, Appl |
| 87 | 37 | 66.1 | 532 | 5 | US-10-492-380-38 | Sequence 38, Appl |
| 88 | 37 | 66.1 | 532 | 5 | US-10-745-237-308 | Sequence 308, App |
| 89 | 37 | 66.1 | 532 | 6 | US-11-098-889-6 | Sequence 6, Appli |
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| 111 | 36 | 64.3 | 178 | 4 | US-10-103-313-309 | Sequence 309, App |
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| 118 | 36 | 64.3 | 200 | 4 | US-10-295-981-11 | Sequence 11, Appl |
| 119 | 36 | 64.3 | 200 | 5 | US-10-843-188-11 | Sequence 11, Appl |
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| 161 | 36 | 64.3 | 394 | 4 | US-10-116-275-187 | Sequence 187, App |
| 162 | 36 | 64.3 | 394 | 4 | US-10-352-843-18 | Sequence 18, Appl |
| 163 | 36 | 64.3 | 394 | 5 | US-10-215-982-13 | Sequence 13, Appl |
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| 167 | 36 | 64.3 | 394 | 5 | US-10-732-923-7620 | Sequence 7620, Ap |
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| 170 | 36 | 64.3 | 394 | 5 | US-10-732-923-8019 | Sequence 8019, Ap |
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| 174 | 36 | 64.3 | 395 | 5 | US-10-215-982-14 | Sequence 14, Appl |
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| 176 | 36 | 64.3 | 397 | 5 | US-10-732-923-8039 | Sequence 8039, Ap |
| 177 | 36 | 64.3 | 402 | 5 | US-10-732-923-8059 | Sequence 8059, Ap |
| 178 | 36 | 64.3 | 419 | 5 | US-10-732-923-8023 | Sequence 8023, Ap |
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| 203 | 36 | 64.3 | 869 | 4 | US-10-314-048A-100 | Sequence 100, App |
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| 225 | 36 | 64.3 | 1181 | 5 | US-10-925-095-587 | Sequence 587, App |
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| 257 | 35 | 62.5 | 105 | 4 | US-10-424-599-143552 | Sequence 143552, |
| 258 | 35 | 62.5 | 109 | 4 | US-10-424-599-187497 | Sequence 187497, |
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| 260 | 35 | 62.5 | 148 | 4 | US-10-231-494-21 | Sequence 21, Appl |
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| 265 | 35 | 62.5 | 174 | 4 | US-10-421-363-3 | Sequence 3, Appli |
| 266 | 35 | 62.5 | 174 | 4 | US-10-231-494-17 | Sequence 17, Appl |
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| 275 | 35 | 62.5 | 177 | 4 | US-10-654-102-70 | Sequence 70, Appl |
| 276 | 35 | 62.5 | 177 | 4 | US-10-654-102-71 | Sequence 71, Appl |
| 277 | 35 | 62.5 | 177 | 4 | US-10-654-102-73 | Sequence 73, Appl |
| 278 | 35 | 62.5 | 177 | 4 | US-10-654-102-75 | Sequence 75, Appl |
| 279 | 35 | 62.5 | 177 | 4 | US-10-654-102-78 | Sequence 78, Appl |
| 280 | 35 | 62.5 | 177 | 4 | US-10-654-102-81 | Sequence 81, Appl |
| 281 | 35 | 62.5 | 177 | 4 | US-10-644-875-13 | Sequence 13, Appl |
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| 319 | 35 | 62.5 | 766 | 4 | US-10-165-603-7 | Sequence 7, Appli |
| 320 | 35 | 62.5 | 766 | 4 | US-10-423-714-6 | Sequence 6, Appli |
| 321 | 35 | 62.5 | 766 | 4 | US-10-295-027-590 | Sequence 590, App |
| 322 | 35 | 62.5 | 766 | 4 | US-10-295-027-922 | Sequence 922, App |
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| 328 | 35 | 62.5 | 766 | 6 | US-11-041-674-6 | Sequence 6, Appli |
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| 569 | 33 | 58.9 | 1215 | 5 | US-10-732-923-8195 | Sequence 8195, Ap |
| 570 | 33 | 58.9 | 1588 | 4 | US-10-437-963-196997 | Sequence 196997, |
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| 572 | 33 | 58.9 | 2887 | 3 | US-09-742-153-2 | Sequence 2, Appli |
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| 574 | 32.5 | 58.0 | 57 | 4 | US-10-424-599-276309 | Sequence 276309, |
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| 580 | 32 | 57.1 | 21 | 4 | US-10-381-112-587 | Sequence 587, App |
| 581 | 32 | 57.1 | 21 | 4 | US-10-381-112-589 | Sequence 589, App |
| 582 | 32 | 57.1 | 28 | 4 | US-10-194-125-5 | Sequence 5, Appli |
| 583 | 32 | 57.1 | 34 | 4 | US-10-424-599-162506 | Sequence 162506, |
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| 585 | 32 | 57.1 | 44 | 4 | US-10-242-515-1161 | Sequence 1161, Ap |
| 586 | 32 | 57.1 | 52 | 4 | US-10-424-599-236149 | Sequence 236149, |
| 587 | 32 | 57.1 | 52 | 4 | US-10-425-115-228743 | Sequence 228743, |
| 588 | 32 | 57.1 | 54 | 4 | US-10-425-115-362043 | Sequence 362043, |
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| 590 | 32 | 57.1 | 58 | 4 | US-10-724-972A-7105 | Sequence 7105, Ap |
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| 593 | 32 | 57.1 | 64 | 4 | US-10-425-115-197645 | Sequence 197645, |
| 594 | 32 | 57.1 | 65 | 4 | US-10-424-599-213302 | Sequence 213302, |
| 595 | 32 | 57.1 | 68 | 5 | US-10-721-793-132 | Sequence 132, App |
| 596 | 32 | 57.1 | 69 | 4 | US-10-083-357-829 | Sequence 829, App |
| 597 | 32 | 57.1 | 69 | 4 | US-10-425-115-262249 | Sequence 262249, |
| 598 | 32 | 57.1 | 72 | 4 | US-10-424-599-181563 | Sequence 181563, |
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| 606 | 32 | 57.1 | 84 | 4 | US-10-424-599-275382 | Sequence 275382, |
| 607 | 32 | 57.1 | 87 | 4 | US-10-424-599-156985 | Sequence 156985, |
| 608 | 32 | 57.1 | 87 | 5 | US-10-721-793-130 | Sequence 130, App |
| 609 | 32 | 57.1 | 90 | 4 | US-10-289-762-77 | Sequence 77, Appl |
| 610 | 32 | 57.1 | 90 | 4 | US-10-424-599-276202 | Sequence 276202, |
| 611 | 32 | 57.1 | 93 | 4 | US-10-424-599-148463 | Sequence 148463, |
| 612 | 32 | 57.1 | 94 | 4 | US-10-437-963-185067 | Sequence 185067, |
| 613 | 32 | 57.1 | 98 | 4 | US-10-425-115-335581 | Sequence 335581, |
| 614 | 32 | 57.1 | 99 | 4 | US-10-424-599-143988 | Sequence 143988, |
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| 627 | 32 | 57.1 | 144 | 4 | US-10-424-599-173147 | Sequence 173147, |
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| 633 | 32 | 57.1 | 157 | 4 | US-10-767-701-49194 | Sequence 49194, A |
| 634 | 32 | 57.1 | 158 | 4 | US-10-424-599-168578 | Sequence 168578, |
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| 636 | 32 | 57.1 | 159 | 4 | US-10-437-963-140227 | Sequence 140227, |
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| 638 | 32 | 57.1 | 164 | 5 | US-10-739-930-8975 | Sequence 8975, Ap |
| 639 | 32 | 57.1 | 165 | 4 | US-10-425-114-70009 | Sequence 70009, A |
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| 644 | 32 | 57.1 | 174 | 4 | US-10-107-782-113 | Sequence 113, App |
| 645 | 32 | 57.1 | 174 | 4 | US-10-425-115-244105 | Sequence 244105, |
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| 647 | 32 | 57.1 | 175 | 4 | US-10-028-248A-112 | Sequence 112, App |
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| 660 | 32 | 57.1 | 211 | 4 | US-10-767-701-59704 | Sequence 59704, A |
| 661 | 32 | 57.1 | 212 | 4 | US-10-425-115-366162 | Sequence 366162, |
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| 663 | 32 | 57.1 | 216 | 4 | US-10-424-599-212739 | Sequence 212739, |
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| 668 | 32 | 57.1 | 227 | 4 | US-10-425-114-53264 | Sequence 53264, A |
| 669 | 32 | 57.1 | 228 | 4 | US-10-369-493-6659 | Sequence 6659, Ap |
| 670 | 32 | 57.1 | 229 | 4 | US-10-424-599-284691 | Sequence 284691, |
| 671 | 32 | 57.1 | 229 | 4 | US-10-767-701-41136 | Sequence 41136, A |
| 672 | 32 | 57.1 | 231 | 4 | US-10-101-464A-627 | Sequence 627, App |
| 673 | 32 | 57.1 | 231 | 5 | US-10-864-252-627 | Sequence 627, App |
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| 677 | 32 | 57.1 | 241 | 4 | US-10-425-114-45027 | Sequence 45027, A |
| 678 | 32 | 57.1 | 241 | 4 | US-10-425-114-61755 | Sequence 61755, A |
| 679 | 32 | 57.1 | 241 | 4 | US-10-425-114-72668 | Sequence 72668, A |
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| 688 | 32 | 57.1 | 255 | 4 | US-10-425-114-59488 | Sequence 59488, A |
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| 691 | 32 | 57.1 | 258 | 4 | US-10-425-114-52160 | Sequence 52160, A |
| 692 | 32 | 57.1 | 266 | 4 | US-10-425-114-56193 | Sequence 56193, A |
| 693 | 32 | 57.1 | 270 | 3 | US-09-816-028A-39 | Sequence 39, Appl |
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| 696 | 32 | 57.1 | 270 | 4 | US-10-303-128-39 | Sequence 39, Appl |
| 697 | 32 | 57.1 | 270 | 4 | US-10-303-134-39 | Sequence 39, Appl |
| 698 | 32 | 57.1 | 270 | 4 | US-10-303-162-39 | Sequence 39, Appl |
| 699 | 32 | 57.1 | 270 | 4 | US-10-820-536-39 | Sequence 39, Appl |
| 700 | 32 | 57.1 | 270 | 4 | US-10-845-408-39 | Sequence 39, Appl |
| 701 | 32 | 57.1 | 270 | 4 | US-10-845-412-39 | Sequence 39, Appl |
| 702 | 32 | 57.1 | 270 | 4 | US-10-425-115-205382 | Sequence 205382, |
| 703 | 32 | 57.1 | 270 | 5 | US-10-846-219-39 | Sequence 39, Appl |
| 704 | 32 | 57.1 | 270 | 5 | US-10-821-604-39 | Sequence 39, Appl |
| 705 | 32 | 57.1 | 270 | 5 | US-10-847-983-39 | Sequence 39, Appl |
| 706 | 32 | 57.1 | 270 | 5 | US-10-821-573-39 | Sequence 39, Appl |
| 707 | 32 | 57.1 | 270 | 5 | US-10-850-807-39 | Sequence 39, Appl |
| 708 | 32 | 57.1 | 270 | 5 | US-10-850-125-39 | Sequence 39, Appl |
| 709 | 32 | 57.1 | 270 | 5 | US-10-830-825-39 | Sequence 39, Appl |
| 710 | 32 | 57.1 | 270 | 5 | US-10-962-334-39 | Sequence 39, Appl |
| 711 | 32 | 57.1 | 270 | 5 | US-10-830-997-39 | Sequence 39, Appl |
| 712 | 32 | 57.1 | 270 | 5 | US-10-962-235-39 | Sequence 39, Appl |
| 713 | 32 | 57.1 | 270 | 5 | US-10-961-882-39 | Sequence 39, Appl |
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| 723 | 32 | 57.1 | 349 | 5 | US-10-732-923-433 | Sequence 433, App |
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| 748 | 32 | 57.1 | 470 | 5 | US-10-773-529-21 | Sequence 21, Appl |
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| 758 | 32 | 57.1 | 522 | 4 | US-10-437-963-109133 | Sequence 109133, |
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| 772 | 32 | 57.1 | 666 | 6 | US-11-097-143-27411 | Sequence 27411, A |
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| 774 | 32 | 57.1 | 700 | 4 | US-10-437-963-103617 | Sequence 103617, |
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| 778 | 32 | 57.1 | 729 | 4 | US-10-437-963-126895 | Sequence 126895, |
| 779 | 32 | 57.1 | 742 | 5 | US-10-854-191-4 | Sequence 4, Appli |
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| 783 | 32 | 57.1 | 767 | 4 | US-10-369-493-1753 | Sequence 1753, Ap |
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| 786 | 32 | 57.1 | 787 | 4 | US-10-369-493-3611 | Sequence 3611, Ap |
| 787 | 32 | 57.1 | 798 | 4 | US-10-437-963-134051 | Sequence 134051, |
| 788 | 32 | 57.1 | 808 | 4 | US-10-437-963-134746 | Sequence 134746, |
| 789 | 32 | 57.1 | 815 | 4 | US-10-296-115-1390 | Sequence 1390, Ap |
| 790 | 32 | 57.1 | 829 | 4 | US-10-437-963-160399 | Sequence 160399, |
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| 793 | 32 | 57.1 | 866 | 4 | US-10-041-018-275 | Sequence 275, App |
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| 812 | 32 | 57.1 | 1130 | 4 | US-10-437-963-204235 | Sequence 204235, |
| 813 | 32 | 57.1 | 1224 | 4 | US-10-217-774-4 | Sequence 4, Appli |
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| 816 | 32 | 57.1 | 1224 | 5 | US-10-804-457-4 | Sequence 4, Appli |
| 817 | 32 | 57.1 | 1227 | 4 | US-10-437-963-135934 | Sequence 135934, |
| 818 | 32 | 57.1 | 1230 | 4 | US-10-437-963-177215 | Sequence 177215, |
| 819 | 32 | 57.1 | 1236 | 4 | US-10-399-645-4 | Sequence 4, Appli |
| 820 | 32 | 57.1 | 1244 | 4 | US-10-437-963-143430 | Sequence 143430, |
| 821 | 32 | 57.1 | 1264 | 4 | US-10-437-963-103613 | Sequence 103613, |
| 822 | 32 | 57.1 | 1291 | 6 | US-11-097-143-39567 | Sequence 39567, A |
| 823 | 32 | 57.1 | 1351 | 4 | US-10-437-963-109091 | Sequence 109091, |
| 824 | 32 | 57.1 | 1372 | 4 | US-10-437-963-177260 | Sequence 177260, |
| 825 | 32 | 57.1 | 1373 | 4 | US-10-437-963-159397 | Sequence 159397, |
| 826 | 32 | 57.1 | 1392 | 4 | US-10-437-963-179449 | Sequence 179449, |
| 827 | 32 | 57.1 | 1395 | 4 | US-10-437-963-109370 | Sequence 109370, |
| 828 | 32 | 57.1 | 1395 | 4 | US-10-437-963-185119 | Sequence 185119, |
| 829 | 32 | 57.1 | 1399 | 3 | US-09-742-153-14 | Sequence 14, Appl |
| 830 | 32 | 57.1 | 1403 | 4 | US-10-437-963-177315 | Sequence 177315, |

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| 831 | 32 | 57.1 | 1417 | 4 | US-10-437-963-169010 | Sequence 169010, |
| 832 | 32 | 57.1 | 1437 | 4 | US-10-437-963-177337 | Sequence 177337, |
| 833 | 32 | 57.1 | 1452 | 3 | US-09-887-669-8 | Sequence 8, Appli |
| 834 | 32 | 57.1 | 1452 | 4 | US-10-408-765A-83 | Sequence 83, Appl |
| 835 | 32 | 57.1 | 1452 | 4 | US-10-437-963-128047 | Sequence 128047, |
| 836 | 32 | 57.1 | 1452 | 5 | US-10-756-149-5243 | Sequence 5243, Ap |
| 837 | 32 | 57.1 | 1528 | 4 | US-10-437-963-204444 | Sequence 204444, |
| 838 | 32 | 57.1 | 1534 | 4 | US-10-437-963-107513 | Sequence 107513, |
| 839 | 32 | 57.1 | 1540 | 4 | US-10-437-963-173162 | Sequence 173162, |
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| 841 | 32 | 57.1 | 1569 | 4 | US-10-437-963-117837 | Sequence 117837, |
| 842 | 32 | 57.1 | 1596 | 4 | US-10-437-963-169099 | Sequence 169099, |
| 843 | 32 | 57.1 | 1610 | 4 | US-10-437-963-194199 | Sequence 194199, |
| 844 | 32 | 57.1 | 1616 | 4 | US-10-437-963-177238 | Sequence 177238, |
| 845 | 32 | 57.1 | 1626 | 4 | US-10-437-963-177293 | Sequence 177293, |
| 846 | 32 | 57.1 | 1649 | 4 | US-10-437-963-104833 | Sequence 104833, |
| 847 | 32 | 57.1 | 1663 | 4 | US-10-437-963-143452 | Sequence 143452, |
| 848 | 32 | 57.1 | 1676 | 4 | US-10-437-963-107510 | Sequence 107510, |
| 849 | 32 | 57.1 | 1676 | 5 | US-10-873-484-4 | Sequence 4, Appli |
| 850 | 32 | 57.1 | 1680 | 4 | US-10-437-963-169165 | Sequence 169165, |
| 851 | 32 | 57.1 | 1696 | 4 | US-10-437-963-173159 | Sequence 173159, |
| 852 | 32 | 57.1 | 1697 | 4 | US-10-437-963-204412 | Sequence 204412, |
| 853 | 32 | 57.1 | 1711 | 4 | US-10-437-963-143397 | Sequence 143397, |
| 854 | 32 | 57.1 | 1770 | 4 | US-10-437-963-117838 | Sequence 117838, |
| 855 | 32 | 57.1 | 1844 | 4 | US-10-437-963-186355 | Sequence 186355, |
| 856 | 32 | 57.1 | 1917 | 4 | US-10-437-963-186774 | Sequence 186774, |
| 857 | 32 | 57.1 | 1969 | 4 | US-10-437-963-200384 | Sequence 200384, |
| 858 | 32 | 57.1 | 1987 | 4 | US-10-437-963-186771 | Sequence 186771, |
| 859 | 32 | 57.1 | 2005 | 4 | US-10-437-963-171493 | Sequence 171493, |
| 860 | 32 | 57.1 | 2006 | 4 | US-10-437-963-204198 | Sequence 204198, |
| 861 | 32 | 57.1 | 2008 | 4 | US-10-437-963-186776 | Sequence 186776, |
| 862 | 32 | 57.1 | 2012 | 4 | US-10-437-963-204172 | Sequence 204172, |
| 863 | 32 | 57.1 | 2017 | 4 | US-10-437-963-204305 | Sequence 204305, |
| 864 | 32 | 57.1 | 2018 | 4 | US-10-437-963-173160 | Sequence 173160, |
| 865 | 32 | 57.1 | 2021 | 4 | US-10-437-963-109097 | Sequence 109097, |
| 866 | 32 | 57.1 | 2282 | 4 | US-10-437-963-204204 | Sequence 204204, |
| 867 | 32 | 57.1 | 3007 | 5 | US-10-723-860-95 | Sequence 95, Appl |
| 868 | 32 | 57.1 | 3562 | 4 | US-10-341-434-109 | Sequence 109, App |
| 869 | 32 | 57.1 | 6669 | 5 | US-10-723-860-25 | Sequence 25, Appl |
| 870 | 32 | 57.1 | 7349 | 4 | US-10-314-657-46 | Sequence 46, Appl |
| 871 | 32 | 57.1 | 7349 | 5 | US-10-473-193-46 | Sequence 46, Appl |
| 872 | 31.5 | 56.2 | 69 | 4 | US-10-724-972A-3926 | Sequence 3926, Ap |
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| 874 | 31.5 | 56.2 | 485 | 4 | US-10-282-122A-45334 | Sequence 45334, A |
| 875 | 31 | 55.4 | 14 | 5 | US-10-813-638-1308 | Sequence 1308, Ap |
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| 877 | 31 | 55.4 | 18 | 4 | US-10-381-112-187 | Sequence 187, App |
| 878 | 31 | 55.4 | 19 | 4 | US-10-381-112-189 | Sequence 189, App |
| 879 | 31 | 55.4 | 19 | 4 | US-10-381-112-565 | Sequence 565, App |
| 880 | 31 | 55.4 | 19 | 4 | US-10-381-112-579 | Sequence 579, App |
| 881 | 31 | 55.4 | 20 | 4 | US-10-381-112-186 | Sequence 186, App |
| 882 | 31 | 55.4 | 20 | 4 | US-10-381-112-222 | Sequence 222, App |
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| 885 | 31 | 55.4 | 21 | 4 | US-10-381-112-171 | Sequence 171, App |
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| 887 | 31 | 55.4 | 21 | 4 | US-10-381-112-206 | Sequence 206, App |
| 888 | 31 | 55.4 | 21 | 4 | US-10-381-112-207 | Sequence 207, App |
| 889 | 31 | 55.4 | 21 | 4 | US-10-381-112-217 | Sequence 217, App |
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| 903 | 31 | 55.4 | 21 | 4 | US-10-381-112-450 | Sequence 450, App |
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| 905 | 31 | 55.4 | 21 | 4 | US-10-381-112-452 | Sequence 452, App |
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| 921 | 31 | 55.4 | 21 | 4 | US-10-381-112-469 | Sequence 469, App |
| 922 | 31 | 55.4 | 21 | 4 | US-10-381-112-485 | Sequence 485, App |
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| 928 | 31 | 55.4 | 21 | 4 | US-10-381-112-491 | Sequence 491, App |
| 929 | 31 | 55.4 | 21 | 4 | US-10-381-112-492 | Sequence 492, App |
| 930 | 31 | 55.4 | 21 | 4 | US-10-381-112-493 | Sequence 493, App |
| 931 | 31 | 55.4 | 21 | 4 | US-10-381-112-494 | Sequence 494, App |
| 932 | 31 | 55.4 | 21 | 4 | US-10-381-112-495 | Sequence 495, App |
| 933 | 31 | 55.4 | 21 | 4 | US-10-381-112-499 | Sequence 499, App |
| 934 | 31 | 55.4 | 21 | 4 | US-10-381-112-508 | Sequence 508, App |
| 935 | 31 | 55.4 | 21 | 4 | US-10-381-112-509 | Sequence 509, App |
| 936 | 31 | 55.4 | 21 | 4 | US-10-381-112-510 | Sequence 510, App |
| 937 | 31 | 55.4 | 21 | 4 | US-10-381-112-511 | Sequence 511, App |
| 938 | 31 | 55.4 | 21 | 4 | US-10-381-112-512 | Sequence 512, App |
| 939 | 31 | 55.4 | 21 | 4 | US-10-381-112-513 | Sequence 513, App |
| 940 | 31 | 55.4 | 21 | 4 | US-10-381-112-514 | Sequence 514, App |
| 941 | 31 | 55.4 | 21 | 4 | US-10-381-112-515 | Sequence 515, App |
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| 947 | 31 | 55.4 | 21 | 4 | US-10-381-112-521 | Sequence 521, App |
| 948 | 31 | 55.4 | 21 | 4 | US-10-381-112-522 | Sequence 522, App |
| 949 | 31 | 55.4 | 21 | 4 | US-10-381-112-523 | Sequence 523, App |
| 950 | 31 | 55.4 | 21 | 4 | US-10-381-112-524 | Sequence 524, App |
| 951 | 31 | 55.4 | 21 | 4 | US-10-381-112-525 | Sequence 525, App |
| 952 | 31 | 55.4 | 21 | 4 | US-10-381-112-526 | Sequence 526, App |
| 953 | 31 | 55.4 | 21 | 4 | US-10-381-112-527 | Sequence 527, App |
| 954 | 31 | 55.4 | 21 | 4 | US-10-381-112-528 | Sequence 528, App |
| 955 | 31 | 55.4 | 21 | 4 | US-10-381-112-529 | Sequence 529, App |
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| 963 | 31 | 55.4 | 21 | 4 | US-10-381-112-537 | Sequence 537, App |
| 964 | 31 | 55.4 | 21 | 4 | US-10-381-112-538 | Sequence 538, App |
| 965 | 31 | 55.4 | 21 | 4 | US-10-381-112-539 | Sequence 539, App |
| 966 | 31 | 55.4 | 21 | 4 | US-10-381-112-540 | Sequence 540, App |
| 967 | 31 | 55.4 | 21 | 4 | US-10-381-112-570 | Sequence 570, App |
| 968 | 31 | 55.4 | 21 | 4 | US-10-381-112-573 | Sequence 573, App |
| 969 | 31 | 55.4 | 21 | 4 | US-10-381-112-574 | Sequence 574, App |
| 970 | 31 | 55.4 | 21 | 4 | US-10-381-112-575 | Sequence 575, App |
| 971 | 31 | 55.4 | 21 | 4 | US-10-381-112-577 | Sequence 577, App |
| 972 | 31 | 55.4 | 21 | 4 | US-10-381-112-578 | Sequence 578, App |
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| 974 | 31 | 55.4 | 21 | 4 | US-10-381-112-582 | Sequence 582, App |
| 975 | 31 | 55.4 | 21 | 4 | US-10-381-112-583 | Sequence 583, App |
| 976 | 31 | 55.4 | 21 | 4 | US-10-381-112-584 | Sequence 584, App |

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| 979 | 31 | 55.4 | 21 | 4 | US-10-381-112-590 | Sequence 590, App |
| 980 | 31 | 55.4 | 21 | 4 | US-10-381-112-591 | Sequence 591, App |
| 981 | 31 | 55.4 | 21 | 4 | US-10-381-112-594 | Sequence 594, App |
| 982 | 31 | 55.4 | 21 | 5 | US-10-504-687-43 | Sequence 43, Appl |
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| 984 | 31 | 55.4 | 24 | 4 | US-10-381-112-224 | Sequence 224, App |
| 985 | 31 | 55.4 | 24 | 4 | US-10-381-112-541 | Sequence 541, App |
| 986 | 31 | 55.4 | 24 | 4 | US-10-381-112-542 | Sequence 542, App |
| 987 | 31 | 55.4 | 24 | 4 | US-10-381-112-543 | Sequence 543, App |
| 988 | 31 | 55.4 | 24 | 4 | US-10-381-112-544 | Sequence 544, App |
| 989 | 31 | 55.4 | 24 | 4 | US-10-381-112-545 | Sequence 545, App |
| 990 | 31 | 55.4 | 24 | 4 | US-10-381-112-546 | Sequence 546, App |
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| 996 | 31 | 55.4 | 26 | 4 | US-10-381-112-551 | Sequence 551, App |
| 997 | 31 | 55.4 | 26 | 4 | US-10-381-112-552 | Sequence 552, App |
| 998 | 31 | 55.4 | 26 | 4 | US-10-381-112-553 | Sequence 553, App |
| 999 | 31 | 55.4 | 26 | 4 | US-10-381-112-554 | Sequence 554, App |
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ALIGNMENTS

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RESULT 1
US-10-239-313A-313
; Sequence 313, Application US/10239313A
; Publication No. US20030175285A1
; GENERAL INFORMATION:
;  APPLICANT: KLINGUER - HAMOUR, Christine
;  APPLICANT:  CORVAIA, Nathalie
;  APPLICANT:  BECK, Alain
;  APPLICANT:  GOETSCH, Liliane
;  TITLE OF INVENTION: MOLECULE OF PHARMACEUTICAL INTEREST COMPRISING AT ITS
;  TITLE OF INVENTION:  N-TERMINAL A GLUTAMIC ACID OR A GLUTAMINE IN THE FORM
;  TITLE OF INVENTION:  OF A PHYSIOLOGICALLY ACCEPTABLE STRONG ACID
;  FILE REFERENCE: 343 727 - US
;  CURRENT APPLICATION NUMBER: US/10/239,313A
;  CURRENT FILING DATE:  2002-09-19
;  PRIOR APPLICATION NUMBER: FR 00/03711
;  PRIOR FILING DATE: 2000-03-23
;  PRIOR APPLICATION NUMBER: PCT 01/70772
;  PRIOR FILING DATE: 2001-03-22
;  NUMBER OF SEQ ID NOS: 697
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 313
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-239-313A-313

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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db          1 EYRHYCYSL 9


RESULT 2
US-10-751-845-86
; Sequence 86, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 86
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-86

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Db          1 EYRHYCYSL 9


RESULT 3
US-10-751-845-80
; Sequence 80, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 80
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-80

  Query Match            100.0%;  Score 56;  DB 5;  Length 10;
  Best Local Similarity  100.0%;  Pred. No. 0.02;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db          2 EYRHYCYSL 10


RESULT 4
US-10-751-845-93
; Sequence 93, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
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;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 93
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-93

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Qy          1 EYRHYCYSL 9
              |||||||||
Db          1 EYRHYCYSL 9


RESULT 5
US-10-476-570-31
; Sequence 31, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 31
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 76-90
US-10-476-570-31

  Query Match             100.0%;  Score 56;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.029;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db          7 EYRHYCYSL 15


RESULT 6
US-10-476-570-32
; Sequence 32, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 32
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 78-92
US-10-476-570-32

  Query Match             100.0%;  Score 56;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.029;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db          5 EYRHYCYSL 13


RESULT 7
US-10-476-570-33
; Sequence 33, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 33
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 81-95
US-10-476-570-33

  Query Match             100.0%;  Score 56;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.029;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db          2 EYRHYCYSL 10


RESULT 8
US-10-476-570-12
; Sequence 12, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
```

```
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 76-95
US-10-476-570-12

  Query Match            100.0%;  Score 56;  DB 4;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.038;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db          7 EYRHYCYSL 15


RESULT 9
US-10-751-845-66
; Sequence 66, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 66
;   LENGTH: 23
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-66

  Query Match            100.0%;  Score 56;  DB 5;  Length 23;
  Best Local Similarity   100.0%;  Pred. No. 0.043;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db          4 EYRHYCYSL 12


RESULT 10
US-10-476-570-55
; Sequence 55, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 55
;   LENGTH: 29
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 80-108
US-10-476-570-55

  Query Match            100.0%;  Score 56;  DB 4;  Length 29;
  Best Local Similarity   100.0%;  Pred. No. 0.053;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db          3 EYRHYCYSL 11


RESULT 11
US-10-858-384-8
; Sequence 8, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 8
;   LENGTH: 29
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
;   OTHER INFORMATION: for E6 of HPV
US-10-858-384-8

  Query Match            100.0%;  Score 56;  DB 5;  Length 29;
  Best Local Similarity   100.0%;  Pred. No. 0.053;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db          3 EYRHYCYSL 11
```

```
RESULT 12
US-10-751-845-126
; Sequence 126, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 126
;   LENGTH: 117
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-126

  Query Match             100.0%;  Score 56;  DB 5;  Length 117;
  Best Local Similarity   100.0%;  Pred. No. 0.19;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db         48 EYRHYCYSL 56


RESULT 13
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-10-858-384-2

  Query Match             100.0%;  Score 56;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.24;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db         82 EYRHYCYSL 90


RESULT 14
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
;  APPLICANT: Cuthill, Scott;
;  APPLICANT:  Jackson, Amanda;
;  APPLICANT:  Lewin, David A.;
;  APPLICANT:  Ooi, Chean Eng
;  TITLE OF INVENTION: Complexes and Methods of Using Same
;  FILE REFERENCE: 21402-559
;  CURRENT APPLICATION NUMBER: US/10/367,057
;  CURRENT FILING DATE:  2003-02-14
;  PRIOR APPLICATION NUMBER: 60/256,911
;  PRIOR FILING DATE: 2002-02-14
;  NUMBER OF SEQ ID NOS: 198
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 16
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-367-057-16

  Query Match             100.0%;  Score 56;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.24;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db         82 EYRHYCYSL 90


RESULT 15
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

  Query Match             100.0%;  Score 56;  DB 6;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.24;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db         82 EYRHYCYSL 90


RESULT 16
US-10-472-724-2
; Sequence 2, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
;  APPLICANT: Cid-Arregui, Angel
;  APPLICANT:  Zur Hausen, Harald
;  TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
```

; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 171
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

Query Match 100.0%; Score 56; DB 4; Length 171;
Best Local Similarity 100.0%; Pred. No. 0.26;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
||||||||||
Db 87 EYRHYCYSL 95

RESULT 17
US-10-751-845-157
; Sequence 157, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 157
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157

Query Match 100.0%; Score 56; DB 5; Length 236;
Best Local Similarity 100.0%; Pred. No. 0.35;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
||||||||||
Db 48 EYRHYCYSL 56

RESULT 18
US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 158
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158

Query Match 100.0%; Score 56; DB 5; Length 237;
Best Local Similarity 100.0%; Pred. No. 0.35;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
||||||||||
Db 49 EYRHYCYSL 57

RESULT 19
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOUL, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/11/072,288
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US/09/462,993
; PRIOR FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Derivated from
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
; OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

Query Match 100.0%; Score 56; DB 6; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.36;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
||||||||||
Db 110 EYRHYCYSL 118

RESULT 20
US-10-751-845-160
; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne

; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 160
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160

Query Match 100.0%; Score 56; DB 5; Length 261;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
||||||||| 
Db 73 EYRHYCYSL 81

RESULT 21
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 56; DB 3; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
||||||||| 
Db 82 EYRHYCYSL 90

RESULT 22
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-4

Query Match 100.0%; Score 56; DB 4; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
||||||||| 
Db 188 EYRHYCYSL 196

RESULT 23
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
; OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-4

Query Match 100.0%; Score 56; DB 5; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
||||||||| 
Db 188 EYRHYCYSL 196

RESULT 24
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine

```
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-10

  Query Match             100.0%;  Score 56;  DB 4;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.42;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db        207 EYRHYCYSL 215


RESULT 25
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
;   OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-10

  Query Match             100.0%;  Score 56;  DB 5;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.42;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db        207 EYRHYCYSL 215


RESULT 26
US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-6

  Query Match             100.0%;  Score 56;  DB 4;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 0.53;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db        188 EYRHYCYSL 196


RESULT 27
US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
;   OTHER INFORMATION: virus type 16)
US-10-899-771-6

  Query Match             100.0%;  Score 56;  DB 5;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 0.53;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||
Db        188 EYRHYCYSL 196


RESULT 28
US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
```

; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-14

Query Match 100.0%; Score 56; DB 4; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.55;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
||||||||| 
Db 207 EYRHYCYSL 215

RESULT 29
US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-14

Query Match 100.0%; Score 56; DB 5; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.55;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
||||||||| 
Db 207 EYRHYCYSL 215

RESULT 30
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
; APPLICANT: N.V. Antwerps Innovatiecentrum
; TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
; TITLE OF INVENTION: Polynucleotides by Electroporation
; FILE REFERENCE: 021505wo/JH/ml
; CURRENT APPLICATION NUMBER: US/10/177,390
; CURRENT FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-177-390-6

Query Match 94.6%; Score 53; DB 4; Length 151;
Best Local Similarity 88.9%; Pred. No. 0.71;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
|||||||:
Db 75 EYRHYCYSV 83

RESULT 31
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-20

Query Match 94.6%; Score 53; DB 5; Length 151;
Best Local Similarity 88.9%; Pred. No. 0.71;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
|||||||:
Db 75 EYRHYCYSV 83

RESULT 32
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809

; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-27

Query Match 94.6%; Score 53; DB 5; Length 151;
Best Local Similarity 88.9%; Pred. No. 0.71;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
||||||||:
Db 75 EYRHYCYSV 83

RESULT 33
US-10-751-845-75
; Sequence 75, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 75
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-75

Query Match 92.9%; Score 52; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.088;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EYRHYCYS 8
||||||||
Db 3 EYRHYCYS 10

RESULT 34
US-10-751-845-70
; Sequence 70, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 70
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-70

Query Match 85.7%; Score 48; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EYRHYCY 7
|||||||
Db 3 EYRHYCY 9

RESULT 35
US-10-751-845-76
; Sequence 76, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 76
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-76

Query Match 85.7%; Score 48; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EYRHYCY 7
|||||||
Db 4 EYRHYCY 10

RESULT 36
US-10-476-570-34
; Sequence 34, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34

;  LENGTH: 15
;  TYPE: PRT
;  ORGANISM: artificial sequence
;  FEATURE:
;  OTHER INFORMATION: Description of the artificial sequence: peptide E6 84-98
US-10-476-570-34

  Query Match  78.6%;  Score 44;  DB 4;  Length 15;
  Best Local Similarity  100.0%;  Pred. No. 2.4;
  Matches  7;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps  0;

Qy  3 RHYCYSL 9
    |||||||
Db  1 RHYCYSL 7

RESULT 37
US-11-021-949-17
; Sequence 17, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 17
;  LENGTH: 148
;  TYPE: PRT
;  ORGANISM: human papilloma virus (HPV)
US-11-021-949-17

  Query Match  78.6%;  Score 44;  DB 6;  Length 148;
  Best Local Similarity  88.9%;  Pred. No. 19;
  Matches  8;  Conservative  0;  Mismatches  1;  Indels  0;  Gaps  0;

Qy  1 EYRHYCYSL 9
    |||||:|||
Db  75 EYRHYQYSL 83

RESULT 38
US-11-021-949-15
; Sequence 15, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 15
;  LENGTH: 149
;  TYPE: PRT
;  ORGANISM: human papilloma virus (HPV)
US-11-021-949-15

  Query Match  78.6%;  Score 44;  DB 6;  Length 149;
  Best Local Similarity  88.9%;  Pred. No. 19;
  Matches  8;  Conservative  0;  Mismatches  1;  Indels  0;  Gaps  0;

Qy  1 EYRHYCYSL 9
    |||||:|||
Db  75 EYRHYNYSL 83

RESULT 39
US-10-425-115-217471
; Sequence 217471, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 217471
;  LENGTH: 98
;  TYPE: PRT
;  ORGANISM: Zea mays
;  FEATURE:
;  OTHER INFORMATION: Clone ID: MRT4577_129934C.1.pep
US-10-425-115-217471

  Query Match  76.8%;  Score 43;  DB 4;  Length 98;
  Best Local Similarity  77.8%;  Pred. No. 19;
  Matches  7;  Conservative  1;  Mismatches  1;  Indels  0;  Gaps  0;

Qy  1 EYRHYCYSL 9
    ||:|| |||
Db  64 EYKHYIYSL 72

RESULT 40
US-10-450-763-34892
; Sequence 34892, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
;  APPLICANT: Hyseq, Inc
;  TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
;  FILE REFERENCE: 790CIP3/US
;  CURRENT APPLICATION NUMBER: US/10/450,763
;  CURRENT FILING DATE:  2003-06-11
;  PRIOR APPLICATION NUMBER: PCT/US01/08631
;  PRIOR FILING DATE: 2001-03-30
;  PRIOR APPLICATION NUMBER: 09/540,217
;  PRIOR FILING DATE: 2000-03-31
;  PRIOR APPLICATION NUMBER: 09/649,167
;  PRIOR FILING DATE: 2000-08-23
;  NUMBER OF SEQ ID NOS: 60736
;  SOFTWARE: Custom
; SEQ ID NO 34892
;  LENGTH: 452
;  TYPE: PRT
;  ORGANISM: Homo sapiens
;  FEATURE:
;  NAME/KEY: DOMAIN
;  LOCATION: (158)..(203)
;  OTHER INFORMATION: kw TRANSCRIPTASE REVERSE II ORF2 domain identified by
;  OTHER INFORMATION: eMATRIX, accession number DM01354N, p-value=1.000e-40, raw score
;  OTHER INFORMATION: 13.17
US-10-450-763-34892

Query Match 75.0%; Score 42; DB 5; Length 452;
Best Local Similarity 66.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 EYRHYCYSL 9
              :|| |||:|
Db         37 DYRQYCYAL 45
```

RESULT 41
US-10-751-845-78
; Sequence 78, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 78
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-78

Query Match 73.2%; Score 41; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 EYRHYC 6
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Db          4 EYRHYC 9
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RESULT 42
US-11-021-949-16
; Sequence 16, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-16

Query Match 73.2%; Score 41; DB 6; Length 149;
Best Local Similarity 77.8%; Pred. No. 59;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

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Qy          1 EYRHYCYSL 9
              ||||| ||:
Db         75 EYRHYNYSV 83
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RESULT 43
US-11-097-143-12297
; Sequence 12297, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; TITLE OF INVENTION: DROSOPHILA GENES.
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12297
; LENGTH: 224
; TYPE: PRT
; ORGANISM: DROSOPHILA
US-11-097-143-12297

Query Match 73.2%; Score 41; DB 6; Length 224;
Best Local Similarity 75.0%; Pred. No. 85;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 EYRHYCYS 8
              |:|:||||
Db         97 EFRNYCYS 104
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RESULT 44
US-10-751-845-88
; Sequence 88, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 88
; LENGTH: 9

; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-88

Query Match 69.6%; Score 39; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 HYCYSL 9
||||||
Db 1 HYCYSL 6

RESULT 45
US-10-751-845-91
; Sequence 91, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 91
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-91

Query Match 69.6%; Score 39; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 HYCYSL 9
||||||
Db 1 HYCYSL 6

RESULT 46
US-10-425-114-38060
; Sequence 38060, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 38060
; LENGTH: 227
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3060-032-F7_FLI.pep
US-10-425-114-38060

Query Match 67.9%; Score 38; DB 4; Length 227;
Best Local Similarity 75.0%; Pred. No. 2.6e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 YRHYCYSL 9
| |||:||
Db 64 YFHYCHSL 71

RESULT 47
US-10-424-599-274361
; Sequence 274361, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 274361
; LENGTH: 375
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(375)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_8976C.1.pep
US-10-424-599-274361

Query Match 67.9%; Score 38; DB 4; Length 375;
Best Local Similarity 75.0%; Pred. No. 4.1e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 YRHYCYSL 9
| |||:||
Db 196 YFHYCHSL 203

RESULT 48
US-10-425-114-49909
; Sequence 49909, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 49909
; LENGTH: 387
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: 700346241_FLI.pep
US-10-425-114-49909

Query Match 67.9%; Score 38; DB 4; Length 387;
Best Local Similarity 75.0%; Pred. No. 4.2e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

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Qy          2 YRHYCYSL 9
              | |||:||
Db        206 YFHYCHSL 213


RESULT 49
US-10-406-686A-65
; Sequence 65, Application US/10406686A
; Publication No. US20040033586A1
; GENERAL INFORMATION:
;  APPLICANT: CROOKE, HELEN RACHEL
;  APPLICANT:  SHEA, JACQUELINE ELIZABETH
;  APPLICANT:  FELDMAN, ROBERT GRAHAM
;  APPLICANT:  COUTEBROZE, SYLVAIN GABRIEL
;  APPLICANT:  LEGROS, FRANCOIS-XAVIER
;  TITLE OF INVENTION: ATTENUATED GRAM NEGATIVE BACTERIA
;  FILE REFERENCE: 454313-3171.1
;  CURRENT APPLICATION NUMBER: US/10/406,686A
;  CURRENT FILING DATE:  2003-04-03
;  PRIOR APPLICATION NUMBER: 60/370,282
;  PRIOR FILING DATE: 2002-04-05
;  NUMBER OF SEQ ID NOS: 118
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 65
;   LENGTH: 392
;   TYPE: PRT
;   ORGANISM: Pasteurella multocida
US-10-406-686A-65

  Query Match             67.9%;  Score 38;  DB 4;  Length 392;
  Best Local Similarity   66.7%;  Pred. No. 4.2e+02;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              || |||  |
Db        359 EYNHYCNKL 367


RESULT 50
US-10-425-115-191132
; Sequence 191132, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 191132
;   LENGTH: 415
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(415)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_105890C.1.pep
US-10-425-115-191132

  Query Match             67.9%;  Score 38;  DB 4;  Length 415;
  Best Local Similarity   75.0%;  Pred. No. 4.5e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YRHYCYSL 9
              | |||:||
Db        252 YFHYCHSL 259


Search completed: May  5, 2006, 08:17:17
Job time : 59.8 secs
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:08:06 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-70
Perfect score: 56
Sequence: 1 EYRHYCYSL 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_New:*
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12: /SIDS5/ptodata/1/pubpaa/US60_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
|---|---|---|---|---|---|---|
| 1 | 56 | 100.0 | 10 | 9 | US-10-530-061-124 | Sequence 124, App |
| 2 | 56 | 100.0 | 10 | 9 | US-10-530-061-850 | Sequence 850, App |
| 3 | 56 | 100.0 | 158 | 11 | US-11-206-138-3 | Sequence 3, Appli |
| 4 | 56 | 100.0 | 256 | 11 | US-11-192-923A-2 | Sequence 2, Appli |
| 5 | 53 | 94.6 | 151 | 9 | US-10-530-253-13 | Sequence 13, Appl |
| 6 | 53 | 94.6 | 248 | 9 | US-10-530-253-1 | Sequence 1, Appli |
| 7 | 53 | 94.6 | 248 | 9 | US-10-530-253-3 | Sequence 3, Appli |
| 8 | 53 | 94.6 | 248 | 9 | US-10-530-253-5 | Sequence 5, Appli |
| 9 | 53 | 94.6 | 248 | 9 | US-10-530-253-7 | Sequence 7, Appli |
| 10 | 53 | 94.6 | 248 | 9 | US-10-530-253-9 | Sequence 9, Appli |
| 11 | 53 | 94.6 | 248 | 9 | US-10-530-253-11 | Sequence 11, Appl |
| 12 | 49 | 87.5 | 10 | 9 | US-10-530-061-128 | Sequence 128, App |
| 13 | 49 | 87.5 | 10 | 9 | US-10-530-061-853 | Sequence 853, App |
| 14 | 48 | 85.7 | 10 | 9 | US-10-530-061-505 | Sequence 505, App |
| 15 | 47 | 83.9 | 10 | 9 | US-10-530-061-127 | Sequence 127, App |
| 16 | 47 | 83.9 | 10 | 9 | US-10-530-061-852 | Sequence 852, App |
| 17 | 44 | 78.6 | 10 | 9 | US-10-530-061-125 | Sequence 125, App |
| 18 | 44 | 78.6 | 10 | 9 | US-10-530-061-851 | Sequence 851, App |
| 19 | 44 | 78.6 | 148 | 9 | US-10-530-253-22 | Sequence 22, Appl |
| 20 | 44 | 78.6 | 149 | 9 | US-10-530-253-24 | Sequence 24, Appl |
| 21 | 41 | 73.2 | 10 | 9 | US-10-530-061-506 | Sequence 506, App |
| 22 | 41 | 73.2 | 149 | 9 | US-10-530-253-17 | Sequence 17, Appl |
| 23 | 40 | 71.4 | 9 | 9 | US-10-530-061-99 | Sequence 99, Appl |
| 24 | 40 | 71.4 | 9 | 9 | US-10-530-061-832 | Sequence 832, App |
| 25 | 39 | 69.6 | 15 | 9 | US-10-530-061-1657 | Sequence 1657, Ap |
| 26 | 37 | 66.1 | 10 | 9 | US-10-530-061-132 | Sequence 132, App |
| 27 | 37 | 66.1 | 10 | 9 | US-10-530-061-857 | Sequence 857, App |
| 28 | 37 | 66.1 | 456 | 9 | US-10-860-501-5 | Sequence 5, Appli |
| 29 | 37 | 66.1 | 456 | 9 | US-10-956-882-5 | Sequence 5, Appli |
| 30 | 37 | 66.1 | 500 | 9 | US-10-860-501-4 | Sequence 4, Appli |
| 31 | 37 | 66.1 | 500 | 9 | US-10-956-882-4 | Sequence 4, Appli |
| 32 | 37 | 66.1 | 532 | 9 | US-10-860-501-7 | Sequence 7, Appli |
| 33 | 37 | 66.1 | 532 | 9 | US-10-956-882-7 | Sequence 7, Appli |
| 34 | 36 | 64.3 | 9 | 9 | US-10-530-061-41 | Sequence 41, Appl |
| 35 | 36 | 64.3 | 9 | 9 | US-10-530-061-71 | Sequence 71, Appl |
| 36 | 36 | 64.3 | 9 | 9 | US-10-530-061-73 | Sequence 73, Appl |
| 37 | 36 | 64.3 | 9 | 9 | US-10-530-061-122 | Sequence 122, App |
| 38 | 36 | 64.3 | 9 | 9 | US-10-530-061-776 | Sequence 776, App |
| 39 | 36 | 64.3 | 10 | 9 | US-10-530-061-475 | Sequence 475, App |
| 40 | 36 | 64.3 | 10 | 9 | US-10-530-061-553 | Sequence 553, App |
| 41 | 36 | 64.3 | 10 | 9 | US-10-530-061-598 | Sequence 598, App |
| 42 | 36 | 64.3 | 355 | 11 | US-11-079-463-6354 | Sequence 6354, Ap |
| 43 | 36 | 64.3 | 394 | 9 | US-10-821-234-1626 | Sequence 1626, Ap |
| 44 | 36 | 64.3 | 532 | 9 | US-10-511-989-182 | Sequence 182, App |
| 45 | 36 | 64.3 | 864 | 11 | US-11-053-100-58 | Sequence 58, Appl |
| 46 | 36 | 64.3 | 953 | 9 | US-10-966-846-2 | Sequence 2, Appli |
| 47 | 36 | 64.3 | 1608 | 9 | US-10-877-346-61 | Sequence 61, Appl |
| 48 | 36 | 64.3 | 1788 | 9 | US-10-877-346-60 | Sequence 60, Appl |
| 49 | 36 | 64.3 | 2641 | 9 | US-10-877-346-63 | Sequence 63, Appl |
| 50 | 36 | 64.3 | 2811 | 9 | US-10-877-346-27 | Sequence 27, Appl |
| 51 | 36 | 64.3 | 2814 | 9 | US-10-877-346-25 | Sequence 25, Appl |
| 52 | 35 | 62.5 | 10 | 9 | US-10-530-061-131 | Sequence 131, App |
| 53 | 35 | 62.5 | 10 | 9 | US-10-530-061-856 | Sequence 856, App |
| 54 | 35 | 62.5 | 45 | 11 | US-11-256-548-11 | Sequence 11, Appl |
| 55 | 35 | 62.5 | 123 | 11 | US-11-172-610-10 | Sequence 10, Appl |
| 56 | 35 | 62.5 | 174 | 9 | US-10-532-426-1 | Sequence 1, Appli |
| 57 | 35 | 62.5 | 304 | 11 | US-11-087-099-11063 | Sequence 11063, A |
| 58 | 35 | 62.5 | 304 | 11 | US-11-096-568A-25859 | Sequence 25859, A |
| 59 | 35 | 62.5 | 304 | 11 | US-11-079-463-9374 | Sequence 9374, Ap |
| 60 | 35 | 62.5 | 531 | 11 | US-11-172-740-446 | Sequence 446, App |
| 61 | 35 | 62.5 | 738 | 11 | US-11-208-288-4 | Sequence 4, Appli |
| 62 | 35 | 62.5 | 762 | 11 | US-11-116-939-13 | Sequence 13, Appl |
| 63 | 35 | 62.5 | 766 | 9 | US-10-522-789-2 | Sequence 2, Appli |
| 64 | 35 | 62.5 | 766 | 9 | US-10-501-035-234 | Sequence 234, App |
| 65 | 35 | 62.5 | 766 | 11 | US-11-208-288-2 | Sequence 2, Appli |
| 66 | 34.5 | 61.6 | 138 | 11 | US-11-079-463-8300 | Sequence 8300, Ap |
| 67 | 34 | 60.7 | 215 | 11 | US-11-087-099-11194 | Sequence 11194, A |
| 68 | 34 | 60.7 | 251 | 11 | US-11-188-298-13885 | Sequence 13885, A |
| 69 | 34 | 60.7 | 357 | 11 | US-11-096-568A-28194 | Sequence 28194, A |
| 70 | 34 | 60.7 | 399 | 11 | US-11-096-568A-28193 | Sequence 28193, A |
| 71 | 34 | 60.7 | 506 | 11 | US-11-096-568A-28192 | Sequence 28192, A |
| 72 | 34 | 60.7 | 886 | 11 | US-11-188-298-17978 | Sequence 17978, A |
| 73 | 33 | 58.9 | 9 | 9 | US-10-530-061-72 | Sequence 72, Appl |
| 74 | 33 | 58.9 | 9 | 9 | US-10-530-061-74 | Sequence 74, Appl |
| 75 | 33 | 58.9 | 9 | 9 | US-10-530-061-121 | Sequence 121, App |
| 76 | 33 | 58.9 | 9 | 9 | US-10-530-061-123 | Sequence 123, App |
| 77 | 33 | 58.9 | 18 | 11 | US-11-054-515-2810 | Sequence 2810, Ap |
| 78 | 33 | 58.9 | 18 | 11 | US-11-266-444-2810 | Sequence 2810, Ap |
| 79 | 33 | 58.9 | 37 | 9 | US-10-467-657-4412 | Sequence 4412, Ap |
| 80 | 33 | 58.9 | 37 | 9 | US-10-467-657-7138 | Sequence 7138, Ap |
| 81 | 33 | 58.9 | 103 | 11 | US-11-079-463-7359 | Sequence 7359, Ap |
| 82 | 33 | 58.9 | 130 | 9 | US-10-485-517-207 | Sequence 207, App |
| 83 | 33 | 58.9 | 134 | 9 | US-10-467-657-6860 | Sequence 6860, Ap |
| 84 | 33 | 58.9 | 189 | 9 | US-10-467-657-6854 | Sequence 6854, Ap |
| 85 | 33 | 58.9 | 189 | 9 | US-10-467-657-7856 | Sequence 7856, Ap |
| 86 | 33 | 58.9 | 221 | 11 | US-11-085-466-14 | Sequence 14, Appl |
| 87 | 33 | 58.9 | 221 | 11 | US-11-175-121-14 | Sequence 14, Appl |
| 88 | 33 | 58.9 | 249 | 11 | US-11-054-515-946 | Sequence 946, App |
| 89 | 33 | 58.9 | 249 | 11 | US-11-266-444-946 | Sequence 946, App |
| 90 | 33 | 58.9 | 251 | 11 | US-11-085-466-13 | Sequence 13, Appl |
| 91 | 33 | 58.9 | 251 | 11 | US-11-175-121-13 | Sequence 13, Appl |
| 92 | 33 | 58.9 | 358 | 9 | US-10-467-657-7030 | Sequence 7030, Ap |
| 93 | 33 | 58.9 | 366 | 9 | US-10-467-657-7024 | Sequence 7024, Ap |
| 94 | 33 | 58.9 | 366 | 9 | US-10-467-657-7964 | Sequence 7964, Ap |

| | | | | | | |
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| 95 | 33 | 58.9 | 385 | 11 | US-11-074-176-192 | Sequence 192, App |
| 96 | 33 | 58.9 | 448 | 9 | US-10-618-320A-25 | Sequence 25, Appl |
| 97 | 33 | 58.9 | 450 | 9 | US-10-618-320A-26 | Sequence 26, Appl |
| 98 | 33 | 58.9 | 458 | 9 | US-10-618-320A-1 | Sequence 1, Appli |
| 99 | 33 | 58.9 | 461 | 11 | US-11-087-099-2520 | Sequence 2520, Ap |
| 100 | 33 | 58.9 | 493 | 11 | US-11-079-463-8790 | Sequence 8790, Ap |
| 101 | 33 | 58.9 | 1068 | 9 | US-10-902-137-8 | Sequence 8, Appli |
| 102 | 33 | 58.9 | 1607 | 11 | US-11-098-686-10178 | Sequence 10178, A |
| 103 | 32 | 57.1 | 10 | 9 | US-10-530-061-40 | Sequence 40, Appl |
| 104 | 32 | 57.1 | 10 | 9 | US-10-530-061-54 | Sequence 54, Appl |
| 105 | 32 | 57.1 | 10 | 9 | US-10-530-061-554 | Sequence 554, App |
| 106 | 32 | 57.1 | 10 | 9 | US-10-530-061-599 | Sequence 599, App |
| 107 | 32 | 57.1 | 10 | 9 | US-10-530-061-775 | Sequence 775, App |
| 108 | 32 | 57.1 | 70 | 9 | US-10-467-657-4268 | Sequence 4268, Ap |
| 109 | 32 | 57.1 | 125 | 11 | US-11-079-463-5485 | Sequence 5485, Ap |
| 110 | 32 | 57.1 | 133 | 9 | US-10-793-626-1962 | Sequence 1962, Ap |
| 111 | 32 | 57.1 | 205 | 11 | US-11-087-099-1075 | Sequence 1075, Ap |
| 112 | 32 | 57.1 | 459 | 11 | US-11-087-099-9854 | Sequence 9854, Ap |
| 113 | 32 | 57.1 | 470 | 11 | US-11-229-371-91 | Sequence 91, Appl |
| 114 | 32 | 57.1 | 470 | 11 | US-11-228-923-91 | Sequence 91, Appl |
| 115 | 32 | 57.1 | 470 | 11 | US-11-228-875-91 | Sequence 91, Appl |
| 116 | 32 | 57.1 | 512 | 11 | US-11-087-099-1062 | Sequence 1062, Ap |
| 117 | 32 | 57.1 | 622 | 9 | US-10-055-877-239 | Sequence 239, App |
| 118 | 32 | 57.1 | 635 | 9 | US-10-055-877-67 | Sequence 67, Appl |
| 119 | 32 | 57.1 | 637 | 11 | US-11-087-099-7996 | Sequence 7996, Ap |
| 120 | 32 | 57.1 | 701 | 9 | US-10-055-877-65 | Sequence 65, Appl |
| 121 | 32 | 57.1 | 885 | 9 | US-10-055-877-240 | Sequence 240, App |
| 122 | 32 | 57.1 | 885 | 9 | US-10-055-877-241 | Sequence 241, App |
| 123 | 32 | 57.1 | 1212 | 9 | US-10-501-035-374 | Sequence 374, App |
| 124 | 32 | 57.1 | 1224 | 9 | US-10-509-565A-2 | Sequence 2, Appli |
| 125 | 32 | 57.1 | 1452 | 9 | US-10-821-234-1102 | Sequence 1102, Ap |
| 126 | 32 | 57.1 | 3685 | 11 | US-11-055-497A-8 | Sequence 8, Appli |
| 127 | 31 | 55.4 | 58 | 11 | US-11-123-896-228 | Sequence 228, App |
| 128 | 31 | 55.4 | 58 | 11 | US-11-123-896-231 | Sequence 231, App |
| 129 | 31 | 55.4 | 58 | 11 | US-11-123-896-234 | Sequence 234, App |
| 130 | 31 | 55.4 | 86 | 11 | US-11-123-896-227 | Sequence 227, App |
| 131 | 31 | 55.4 | 86 | 11 | US-11-123-896-230 | Sequence 230, App |
| 132 | 31 | 55.4 | 86 | 11 | US-11-123-896-233 | Sequence 233, App |
| 133 | 31 | 55.4 | 96 | 11 | US-11-079-463-8565 | Sequence 8565, Ap |
| 134 | 31 | 55.4 | 124 | 11 | US-11-096-568A-11140 | Sequence 11140, A |
| 135 | 31 | 55.4 | 137 | 11 | US-11-096-568A-11139 | Sequence 11139, A |
| 136 | 31 | 55.4 | 142 | 11 | US-11-096-568A-11138 | Sequence 11138, A |
| 137 | 31 | 55.4 | 149 | 9 | US-10-530-253-18 | Sequence 18, Appl |
| 138 | 31 | 55.4 | 150 | 11 | US-11-188-298-11413 | Sequence 11413, A |
| 139 | 31 | 55.4 | 155 | 9 | US-10-530-253-23 | Sequence 23, Appl |
| 140 | 31 | 55.4 | 167 | 9 | US-10-467-657-6910 | Sequence 6910, Ap |
| 141 | 31 | 55.4 | 193 | 11 | US-11-079-463-8253 | Sequence 8253, Ap |
| 142 | 31 | 55.4 | 201 | 9 | US-10-467-657-2982 | Sequence 2982, Ap |
| 143 | 31 | 55.4 | 202 | 9 | US-10-330-773-145 | Sequence 145, App |
| 144 | 31 | 55.4 | 206 | 11 | US-11-072-512-2595 | Sequence 2595, Ap |
| 145 | 31 | 55.4 | 213 | 11 | US-11-072-512-2884 | Sequence 2884, Ap |
| 146 | 31 | 55.4 | 235 | 11 | US-11-096-568A-30604 | Sequence 30604, A |
| 147 | 31 | 55.4 | 237 | 11 | US-11-188-298-17057 | Sequence 17057, A |
| 148 | 31 | 55.4 | 240 | 9 | US-10-745-586-156 | Sequence 156, App |
| 149 | 31 | 55.4 | 246 | 11 | US-11-188-298-11329 | Sequence 11329, A |
| 150 | 31 | 55.4 | 251 | 9 | US-10-793-626-298 | Sequence 298, App |
| 151 | 31 | 55.4 | 251 | 9 | US-10-793-626-722 | Sequence 722, App |
| 152 | 31 | 55.4 | 255 | 11 | US-11-096-568A-14765 | Sequence 14765, A |
| 153 | 31 | 55.4 | 259 | 11 | US-11-087-099-8317 | Sequence 8317, Ap |
| 154 | 31 | 55.4 | 259 | 11 | US-11-188-298-805 | Sequence 805, App |
| 155 | 31 | 55.4 | 259 | 11 | US-11-188-298-10527 | Sequence 10527, A |
| 156 | 31 | 55.4 | 292 | 11 | US-11-079-463-9800 | Sequence 9800, Ap |
| 157 | 31 | 55.4 | 296 | 11 | US-11-096-568A-27880 | Sequence 27880, A |
| 158 | 31 | 55.4 | 306 | 9 | US-10-878-556A-89 | Sequence 89, Appl |
| 159 | 31 | 55.4 | 311 | 11 | US-11-179-411-18 | Sequence 18, Appl |
| 160 | 31 | 55.4 | 311 | 11 | US-11-175-766-18 | Sequence 18, Appl |
| 161 | 31 | 55.4 | 327 | 11 | US-11-096-568A-27879 | Sequence 27879, A |
| 162 | 31 | 55.4 | 355 | 11 | US-11-087-099-1045 | Sequence 1045, Ap |
| 163 | 31 | 55.4 | 368 | 11 | US-11-096-568A-27878 | Sequence 27878, A |
| 164 | 31 | 55.4 | 385 | 11 | US-11-079-463-8385 | Sequence 8385, Ap |
| 165 | 31 | 55.4 | 388 | 11 | US-11-129-143-47 | Sequence 47, Appl |
| 166 | 31 | 55.4 | 398 | 9 | US-10-509-773-10 | Sequence 10, Appl |
| 167 | 31 | 55.4 | 422 | 11 | US-11-172-740-1644 | Sequence 1644, Ap |
| 168 | 31 | 55.4 | 425 | 11 | US-11-172-740-1643 | Sequence 1643, Ap |
| 169 | 31 | 55.4 | 427 | 11 | US-11-087-099-9452 | Sequence 9452, Ap |
| 170 | 31 | 55.4 | 434 | 11 | US-11-172-740-1642 | Sequence 1642, Ap |
| 171 | 31 | 55.4 | 455 | 9 | US-10-793-626-718 | Sequence 718, App |
| 172 | 31 | 55.4 | 459 | 11 | US-11-014-842A-23 | Sequence 23, Appl |
| 173 | 31 | 55.4 | 459 | 11 | US-11-210-960-5 | Sequence 5, Appli |
| 174 | 31 | 55.4 | 560 | 11 | US-11-079-463-8548 | Sequence 8548, Ap |
| 175 | 31 | 55.4 | 626 | 11 | US-11-072-512-2199 | Sequence 2199, Ap |
| 176 | 31 | 55.4 | 684 | 9 | US-10-714-781A-55 | Sequence 55, Appl |
| 177 | 31 | 55.4 | 684 | 9 | US-10-714-781A-57 | Sequence 57, Appl |
| 178 | 31 | 55.4 | 684 | 9 | US-10-714-781A-61 | Sequence 61, Appl |
| 179 | 31 | 55.4 | 686 | 9 | US-10-714-781A-59 | Sequence 59, Appl |
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| 182 | 31 | 55.4 | 708 | 11 | US-11-045-004-1265 | Sequence 1265, Ap |
| 183 | 31 | 55.4 | 718 | 9 | US-10-878-556A-97 | Sequence 97, Appl |
| 184 | 31 | 55.4 | 746 | 11 | US-11-072-175-169 | Sequence 169, App |
| 185 | 31 | 55.4 | 759 | 11 | US-11-087-099-3393 | Sequence 3393, Ap |
| 186 | 31 | 55.4 | 775 | 11 | US-11-096-568A-30719 | Sequence 30719, A |
| 187 | 31 | 55.4 | 809 | 11 | US-11-087-099-12454 | Sequence 12454, A |
| 188 | 31 | 55.4 | 816 | 11 | US-11-090-439-48 | Sequence 48, Appl |
| 189 | 31 | 55.4 | 872 | 11 | US-11-096-568A-30718 | Sequence 30718, A |
| 190 | 31 | 55.4 | 905 | 11 | US-11-096-568A-30717 | Sequence 30717, A |
| 191 | 31 | 55.4 | 988 | 11 | US-11-207-078-112 | Sequence 112, App |
| 192 | 31 | 55.4 | 992 | 11 | US-11-072-512-2473 | Sequence 2473, Ap |
| 193 | 31 | 55.4 | 3402 | 9 | US-10-204-252-18 | Sequence 18, Appl |
| 194 | 31 | 55.4 | 3433 | 9 | US-10-714-781A-67 | Sequence 67, Appl |
| 195 | 31 | 55.4 | 3433 | 11 | US-11-223-729-2 | Sequence 2, Appli |
| 196 | 30 | 53.6 | 13 | 11 | US-11-041-893-83 | Sequence 83, Appl |
| 197 | 30 | 53.6 | 17 | 9 | US-10-519-122-78 | Sequence 78, Appl |
| 198 | 30 | 53.6 | 24 | 9 | US-10-895-064-2300 | Sequence 2300, Ap |
| 199 | 30 | 53.6 | 24 | 11 | US-11-129-741-2300 | Sequence 2300, Ap |
| 200 | 30 | 53.6 | 28 | 11 | US-11-144-947-640 | Sequence 640, App |
| 201 | 30 | 53.6 | 53 | 11 | US-11-000-463-412 | Sequence 412, App |
| 202 | 30 | 53.6 | 53 | 11 | US-11-000-463-884 | Sequence 884, App |
| 203 | 30 | 53.6 | 95 | 11 | US-11-084-554-215 | Sequence 215, App |
| 204 | 30 | 53.6 | 95 | 11 | US-11-136-250-215 | Sequence 215, App |
| 205 | 30 | 53.6 | 96 | 11 | US-11-084-554-217 | Sequence 217, App |
| 206 | 30 | 53.6 | 96 | 11 | US-11-136-250-217 | Sequence 217, App |
| 207 | 30 | 53.6 | 106 | 9 | US-10-520-224-1 | Sequence 1, Appli |
| 208 | 30 | 53.6 | 108 | 11 | US-11-064-174-66 | Sequence 66, Appl |
| 209 | 30 | 53.6 | 137 | 9 | US-10-527-500-47 | Sequence 47, Appl |
| 210 | 30 | 53.6 | 139 | 11 | US-11-087-099-10117 | Sequence 10117, A |
| 211 | 30 | 53.6 | 181 | 11 | US-11-000-463-890 | Sequence 890, App |
| 212 | 30 | 53.6 | 182 | 11 | US-11-000-463-418 | Sequence 418, App |
| 213 | 30 | 53.6 | 198 | 9 | US-10-131-826A-550 | Sequence 550, App |
| 214 | 30 | 53.6 | 198 | 9 | US-10-973-115B-550 | Sequence 550, App |
| 215 | 30 | 53.6 | 198 | 9 | US-10-218-784-226 | Sequence 226, App |
| 216 | 30 | 53.6 | 198 | 9 | US-10-219-061-226 | Sequence 226, App |
| 217 | 30 | 53.6 | 198 | 9 | US-10-219-062-226 | Sequence 226, App |
| 218 | 30 | 53.6 | 198 | 9 | US-10-219-064-226 | Sequence 226, App |
| 219 | 30 | 53.6 | 198 | 9 | US-10-233-134-226 | Sequence 226, App |
| 220 | 30 | 53.6 | 198 | 9 | US-10-137-873A-550 | Sequence 550, App |
| 221 | 30 | 53.6 | 198 | 9 | US-10-152-370-550 | Sequence 550, App |
| 222 | 30 | 53.6 | 198 | 11 | US-11-290-153-550 | Sequence 550, App |
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| 224 | 30 | 53.6 | 246 | 11 | US-11-079-463-7933 | Sequence 7933, Ap |
| 225 | 30 | 53.6 | 250 | 11 | US-11-054-515-1022 | Sequence 1022, Ap |
| 226 | 30 | 53.6 | 250 | 11 | US-11-266-444-1022 | Sequence 1022, Ap |
| 227 | 30 | 53.6 | 251 | 11 | US-11-054-515-945 | Sequence 945, App |
| 228 | 30 | 53.6 | 251 | 11 | US-11-266-444-945 | Sequence 945, App |
| 229 | 30 | 53.6 | 253 | 11 | US-11-096-568A-25887 | Sequence 25887, A |
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| 231 | 30 | 53.6 | 273 | 9 | US-10-063-703-168 | Sequence 168, App |
| 232 | 30 | 53.6 | 273 | 9 | US-10-973-115B-540 | Sequence 540, App |
| 233 | 30 | 53.6 | 273 | 9 | US-10-226-486-18 | Sequence 18, Appl |
| 234 | 30 | 53.6 | 273 | 9 | US-10-137-873A-540 | Sequence 540, App |
| 235 | 30 | 53.6 | 273 | 9 | US-10-152-370-540 | Sequence 540, App |
| 236 | 30 | 53.6 | 273 | 11 | US-11-102-978-13 | Sequence 13, Appl |
| 237 | 30 | 53.6 | 273 | 11 | US-11-102-240-168 | Sequence 168, App |
| 238 | 30 | 53.6 | 273 | 11 | US-11-103-195-168 | Sequence 168, App |
| 239 | 30 | 53.6 | 273 | 11 | US-11-290-153-540 | Sequence 540, App |
| 240 | 30 | 53.6 | 279 | 11 | US-11-096-568A-25886 | Sequence 25886, A |

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| 241 | 30 | 53.6 | 286 | 11 | US-11-087-099-2805 | Sequence 2805, Ap |
| 242 | 30 | 53.6 | 309 | 11 | US-11-087-099-2169 | Sequence 2169, Ap |
| 243 | 30 | 53.6 | 309 | 11 | US-11-087-099-7821 | Sequence 7821, Ap |
| 244 | 30 | 53.6 | 310 | 11 | US-11-087-099-11476 | Sequence 11476, A |
| 245 | 30 | 53.6 | 328 | 9 | US-10-974-127A-48 | Sequence 48, Appl |
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| 257 | 30 | 53.6 | 544 | 9 | US-10-219-062-12 | Sequence 12, Appl |
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| 259 | 30 | 53.6 | 544 | 9 | US-10-233-134-12 | Sequence 12, Appl |
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| 265 | 30 | 53.6 | 1123 | 11 | US-11-019-711-71 | Sequence 71, Appl |
| 266 | 30 | 53.6 | 1194 | 11 | US-11-000-463-249 | Sequence 249, App |
| 267 | 30 | 53.6 | 1327 | 11 | US-11-019-711-70 | Sequence 70, Appl |
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| 270 | 30 | 53.6 | 1356 | 11 | US-11-129-741-2943 | Sequence 2943, Ap |
| 271 | 30 | 53.6 | 1356 | 11 | US-11-129-741-2945 | Sequence 2945, Ap |
| 272 | 30 | 53.6 | 1356 | 11 | US-11-129-741-2949 | Sequence 2949, Ap |
| 273 | 30 | 53.6 | 1356 | 11 | US-11-129-741-2951 | Sequence 2951, Ap |
| 274 | 30 | 53.6 | 1356 | 11 | US-11-129-741-4245 | Sequence 4245, Ap |
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| 276 | 30 | 53.6 | 1362 | 11 | US-11-129-741-420 | Sequence 420, App |
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| 283 | 30 | 53.6 | 4386 | 11 | US-11-004-399-714 | Sequence 714, App |
| 284 | 29.5 | 52.7 | 13 | 11 | US-11-145-861-118 | Sequence 118, App |
| 285 | 29.5 | 52.7 | 165 | 11 | US-11-229-769-281 | Sequence 281, App |
| 286 | 29.5 | 52.7 | 183 | 11 | US-11-229-769-136 | Sequence 136, App |
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| 288 | 29.5 | 52.7 | 235 | 11 | US-11-219-359-5 | Sequence 5, Appli |
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| 290 | 29 | 51.8 | 18 | 11 | US-11-068-783-100 | Sequence 100, App |
| 291 | 29 | 51.8 | 18 | 11 | US-11-152-974A-112 | Sequence 112, App |
| 292 | 29 | 51.8 | 18 | 11 | US-11-153-143A-112 | Sequence 112, App |
| 293 | 29 | 51.8 | 22 | 11 | US-11-054-515-2189 | Sequence 2189, Ap |
| 294 | 29 | 51.8 | 22 | 11 | US-11-266-444-2189 | Sequence 2189, Ap |
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| 312 | 29 | 51.8 | 155 | 11 | US-11-172-740-1019 | Sequence 1019, Ap |
| 313 | 29 | 51.8 | 155 | 11 | US-11-172-740-1020 | Sequence 1020, Ap |
| 314 | 29 | 51.8 | 155 | 11 | US-11-172-740-1028 | Sequence 1028, Ap |
| 315 | 29 | 51.8 | 155 | 11 | US-11-172-740-1029 | Sequence 1029, Ap |
| 316 | 29 | 51.8 | 155 | 11 | US-11-172-740-1030 | Sequence 1030, Ap |
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| 326 | 29 | 51.8 | 157 | 11 | US-11-172-740-1027 | Sequence 1027, Ap |
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| 345 | 29 | 51.8 | 257 | 11 | US-11-266-444-1579 | Sequence 1579, Ap |
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| 350 | 29 | 51.8 | 297 | 11 | US-11-147-780-25 | Sequence 25, Appl |
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| 353 | 29 | 51.8 | 323 | 9 | US-10-063-703-126 | Sequence 126, App |
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| 360 | 29 | 51.8 | 360 | 11 | US-11-087-099-3115 | Sequence 3115, Ap |
| 361 | 29 | 51.8 | 374 | 11 | US-11-264-096-2094 | Sequence 2094, Ap |
| 362 | 29 | 51.8 | 386 | 11 | US-11-079-463-6920 | Sequence 6920, Ap |
| 363 | 29 | 51.8 | 406 | 11 | US-11-079-463-5667 | Sequence 5667, Ap |
| 364 | 29 | 51.8 | 408 | 11 | US-11-079-463-6515 | Sequence 6515, Ap |
| 365 | 29 | 51.8 | 425 | 11 | US-11-096-568A-25564 | Sequence 25564, A |
| 366 | 29 | 51.8 | 437 | 11 | US-11-079-463-9024 | Sequence 9024, Ap |
| 367 | 29 | 51.8 | 438 | 9 | US-10-641-678-49 | Sequence 49, Appl |
| 368 | 29 | 51.8 | 441 | 11 | US-11-096-568A-25563 | Sequence 25563, A |
| 369 | 29 | 51.8 | 444 | 11 | US-11-087-099-768 | Sequence 768, App |
| 370 | 29 | 51.8 | 444 | 11 | US-11-087-099-10326 | Sequence 10326, A |
| 371 | 29 | 51.8 | 447 | 11 | US-11-112-882-4 | Sequence 4, Appli |
| 372 | 29 | 51.8 | 453 | 11 | US-11-185-878-5 | Sequence 5, Appli |
| 373 | 29 | 51.8 | 455 | 9 | US-10-523-328-3 | Sequence 3, Appli |
| 374 | 29 | 51.8 | 455 | 9 | US-10-784-004-715 | Sequence 715, App |
| 375 | 29 | 51.8 | 455 | 11 | US-11-182-946-3 | Sequence 3, Appli |
| 376 | 29 | 51.8 | 458 | 11 | US-11-112-882-69 | Sequence 69, Appl |
| 377 | 29 | 51.8 | 460 | 11 | US-11-087-099-9815 | Sequence 9815, Ap |
| 378 | 29 | 51.8 | 463 | 9 | US-10-467-657-4228 | Sequence 4228, Ap |
| 379 | 29 | 51.8 | 469 | 11 | US-11-096-568A-25562 | Sequence 25562, A |
| 380 | 29 | 51.8 | 519 | 11 | US-11-096-568A-29569 | Sequence 29569, A |
| 381 | 29 | 51.8 | 525 | 11 | US-11-096-568A-28134 | Sequence 28134, A |
| 382 | 29 | 51.8 | 525 | 11 | US-11-096-568A-29568 | Sequence 29568, A |
| 383 | 29 | 51.8 | 533 | 11 | US-11-087-099-1589 | Sequence 1589, Ap |
| 384 | 29 | 51.8 | 533 | 11 | US-11-188-298-12492 | Sequence 12492, A |
| 385 | 29 | 51.8 | 540 | 11 | US-11-087-099-1788 | Sequence 1788, Ap |
| 386 | 29 | 51.8 | 540 | 11 | US-11-079-463-6055 | Sequence 6055, Ap |

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| 387 | 29 | 51.8 | 540 | 11 | US-11-188-298-21979 | Sequence 21979, A |
| 388 | 29 | 51.8 | 542 | 11 | US-11-188-298-19131 | Sequence 19131, A |
| 389 | 29 | 51.8 | 543 | 11 | US-11-096-568A-28133 | Sequence 28133, A |
| 390 | 29 | 51.8 | 543 | 11 | US-11-096-568A-29567 | Sequence 29567, A |
| 391 | 29 | 51.8 | 556 | 11 | US-11-077-619-60 | Sequence 60, Appl |
| 392 | 29 | 51.8 | 566 | 11 | US-11-096-568A-28132 | Sequence 28132, A |
| 393 | 29 | 51.8 | 566 | 11 | US-11-188-298-6791 | Sequence 6791, Ap |
| 394 | 29 | 51.8 | 590 | 11 | US-11-079-463-6352 | Sequence 6352, Ap |
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| 396 | 29 | 51.8 | 623 | 11 | US-11-087-099-5188 | Sequence 5188, Ap |
| 397 | 29 | 51.8 | 727 | 9 | US-10-506-454-527 | Sequence 527, App |
| 398 | 29 | 51.8 | 749 | 9 | US-10-481-935A-105 | Sequence 105, App |
| 399 | 29 | 51.8 | 786 | 11 | US-11-072-512-2944 | Sequence 2944, Ap |
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| 401 | 29 | 51.8 | 857 | 11 | US-11-079-463-5245 | Sequence 5245, Ap |
| 402 | 29 | 51.8 | 893 | 8 | US-10-505-928-733 | Sequence 733, App |
| 403 | 29 | 51.8 | 909 | 11 | US-11-076-187-4 | Sequence 4, Appli |
| 404 | 29 | 51.8 | 929 | 11 | US-11-063-343-37 | Sequence 37, Appl |
| 405 | 29 | 51.8 | 941 | 9 | US-10-501-035-343 | Sequence 343, App |
| 406 | 29 | 51.8 | 980 | 11 | US-11-052-554A-17 | Sequence 17, Appl |
| 407 | 29 | 51.8 | 993 | 8 | US-10-511-937-2463 | Sequence 2463, Ap |
| 408 | 29 | 51.8 | 995 | 11 | US-11-045-004-830 | Sequence 830, App |
| 409 | 29 | 51.8 | 1046 | 11 | US-11-165-819-6 | Sequence 6, Appli |
| 410 | 29 | 51.8 | 1046 | 11 | US-11-165-819-26 | Sequence 26, Appl |
| 411 | 29 | 51.8 | 1058 | 11 | US-11-096-568A-27717 | Sequence 27717, A |
| 412 | 29 | 51.8 | 1061 | 11 | US-11-096-568A-27716 | Sequence 27716, A |
| 413 | 29 | 51.8 | 1094 | 11 | US-11-096-568A-27715 | Sequence 27715, A |
| 414 | 29 | 51.8 | 1479 | 9 | US-10-204-639-4 | Sequence 4, Appli |
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| 416 | 29 | 51.8 | 1905 | 9 | US-10-877-346-44 | Sequence 44, Appl |
| 417 | 29 | 51.8 | 2871 | 11 | US-11-169-041-131 | Sequence 131, App |
| 418 | 29 | 51.8 | 2911 | 11 | US-11-090-617-706 | Sequence 706, App |
| 419 | 29 | 51.8 | 3002 | 9 | US-10-821-234-916 | Sequence 916, App |
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| 421 | 28.5 | 50.9 | 357 | 8 | US-10-505-928-613 | Sequence 613, App |
| 422 | 28.5 | 50.9 | 472 | 11 | US-11-096-568A-24658 | Sequence 24658, A |
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| 426 | 28.5 | 50.9 | 898 | 11 | US-11-079-463-7619 | Sequence 7619, Ap |
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| 428 | 28 | 50.0 | 25 | 11 | US-11-004-399-424 | Sequence 424, App |
| 429 | 28 | 50.0 | 25 | 11 | US-11-004-399-3646 | Sequence 3646, Ap |
| 430 | 28 | 50.0 | 25 | 11 | US-11-004-399-3857 | Sequence 3857, Ap |
| 431 | 28 | 50.0 | 52 | 11 | US-11-240-769-102 | Sequence 102, App |
| 432 | 28 | 50.0 | 54 | 11 | US-11-033-105A-14 | Sequence 14, Appl |
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| 439 | 28 | 50.0 | 82 | 9 | US-10-467-657-4790 | Sequence 4790, Ap |
| 440 | 28 | 50.0 | 85 | 9 | US-10-491-468-35 | Sequence 35, Appl |
| 441 | 28 | 50.0 | 94 | 11 | US-11-079-463-7789 | Sequence 7789, Ap |
| 442 | 28 | 50.0 | 99 | 9 | US-10-467-657-7214 | Sequence 7214, Ap |
| 443 | 28 | 50.0 | 118 | 11 | US-11-188-298-931 | Sequence 931, App |
| 444 | 28 | 50.0 | 119 | 11 | US-11-098-686-10808 | Sequence 10808, A |
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| 446 | 28 | 50.0 | 120 | 11 | US-11-120-308-34 | Sequence 34, Appl |
| 447 | 28 | 50.0 | 130 | 11 | US-11-188-298-11184 | Sequence 11184, A |
| 448 | 28 | 50.0 | 140 | 9 | US-10-678-790-42 | Sequence 42, Appl |
| 449 | 28 | 50.0 | 160 | 11 | US-11-055-822-230 | Sequence 230, App |
| 450 | 28 | 50.0 | 160 | 11 | US-11-055-822-718 | Sequence 718, App |
| 451 | 28 | 50.0 | 160 | 11 | US-11-055-822-760 | Sequence 760, App |
| 452 | 28 | 50.0 | 160 | 11 | US-11-239-674-108 | Sequence 108, App |
| 453 | 28 | 50.0 | 168 | 11 | US-11-188-298-22428 | Sequence 22428, A |
| 454 | 28 | 50.0 | 172 | 11 | US-11-205-225-7 | Sequence 7, Appli |
| 455 | 28 | 50.0 | 178 | 11 | US-11-205-225-6 | Sequence 6, Appli |
| 456 | 28 | 50.0 | 191 | 11 | US-11-045-004-62 | Sequence 62, Appl |
| 457 | 28 | 50.0 | 202 | 9 | US-10-821-234-928 | Sequence 928, App |
| 458 | 28 | 50.0 | 216 | 11 | US-11-098-686-10677 | Sequence 10677, A |
| 459 | 28 | 50.0 | 227 | 11 | US-11-098-686-11198 | Sequence 11198, A |
| 460 | 28 | 50.0 | 237 | 10 | US-11-301-924-6 | Sequence 6, Appli |
| 461 | 28 | 50.0 | 251 | 11 | US-11-054-515-1343 | Sequence 1343, Ap |
| 462 | 28 | 50.0 | 251 | 11 | US-11-266-444-1343 | Sequence 1343, Ap |
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| 465 | 28 | 50.0 | 260 | 11 | US-11-188-298-20190 | Sequence 20190, A |
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| 467 | 28 | 50.0 | 281 | 11 | US-11-096-568A-996 | Sequence 996, App |
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| 469 | 28 | 50.0 | 285 | 9 | US-10-523-362-6 | Sequence 6, Appli |
| 470 | 28 | 50.0 | 292 | 11 | US-11-188-298-6397 | Sequence 6397, Ap |
| 471 | 28 | 50.0 | 301 | 11 | US-11-096-568A-18564 | Sequence 18564, A |
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| 473 | 28 | 50.0 | 303 | 11 | US-11-058-924-5 | Sequence 5, Appli |
| 474 | 28 | 50.0 | 303 | 11 | US-11-072-512-3897 | Sequence 3897, Ap |
| 475 | 28 | 50.0 | 303 | 11 | US-11-096-568A-18563 | Sequence 18563, A |
| 476 | 28 | 50.0 | 304 | 11 | US-11-188-298-9075 | Sequence 9075, Ap |
| 477 | 28 | 50.0 | 308 | 11 | US-11-096-568A-22847 | Sequence 22847, A |
| 478 | 28 | 50.0 | 308 | 11 | US-11-188-298-3745 | Sequence 3745, Ap |
| 479 | 28 | 50.0 | 308 | 11 | US-11-188-298-10390 | Sequence 10390, A |
| 480 | 28 | 50.0 | 308 | 11 | US-11-188-298-15926 | Sequence 15926, A |
| 481 | 28 | 50.0 | 308 | 11 | US-11-188-298-20337 | Sequence 20337, A |
| 482 | 28 | 50.0 | 308 | 11 | US-11-188-298-21758 | Sequence 21758, A |
| 483 | 28 | 50.0 | 309 | 11 | US-11-045-004-1980 | Sequence 1980, Ap |
| 484 | 28 | 50.0 | 311 | 11 | US-11-079-463-6123 | Sequence 6123, Ap |
| 485 | 28 | 50.0 | 314 | 11 | US-11-096-568A-18562 | Sequence 18562, A |
| 486 | 28 | 50.0 | 316 | 11 | US-11-058-924-2 | Sequence 2, Appli |
| 487 | 28 | 50.0 | 317 | 11 | US-11-205-225-2 | Sequence 2, Appli |
| 488 | 28 | 50.0 | 321 | 11 | US-11-072-512-3635 | Sequence 3635, Ap |
| 489 | 28 | 50.0 | 321 | 11 | US-11-188-298-5106 | Sequence 5106, Ap |
| 490 | 28 | 50.0 | 321 | 11 | US-11-188-298-13557 | Sequence 13557, A |
| 491 | 28 | 50.0 | 335 | 9 | US-10-986-405-346 | Sequence 346, App |
| 492 | 28 | 50.0 | 341 | 11 | US-11-079-463-7141 | Sequence 7141, Ap |
| 493 | 28 | 50.0 | 350 | 11 | US-11-188-298-7359 | Sequence 7359, Ap |
| 494 | 28 | 50.0 | 350 | 11 | US-11-188-298-12259 | Sequence 12259, A |
| 495 | 28 | 50.0 | 351 | 11 | US-11-096-568A-20024 | Sequence 20024, A |
| 496 | 28 | 50.0 | 355 | 11 | US-11-096-568A-20023 | Sequence 20023, A |
| 497 | 28 | 50.0 | 357 | 11 | US-11-188-298-10911 | Sequence 10911, A |
| 498 | 28 | 50.0 | 358 | 11 | US-11-087-099-9519 | Sequence 9519, Ap |
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| 501 | 28 | 50.0 | 361 | 11 | US-11-188-298-2272 | Sequence 2272, Ap |
| 502 | 28 | 50.0 | 361 | 11 | US-11-188-298-17408 | Sequence 17408, A |
| 503 | 28 | 50.0 | 367 | 11 | US-11-098-686-10758 | Sequence 10758, A |
| 504 | 28 | 50.0 | 370 | 11 | US-11-229-371-15 | Sequence 15, Appl |
| 505 | 28 | 50.0 | 370 | 11 | US-11-228-923-15 | Sequence 15, Appl |
| 506 | 28 | 50.0 | 370 | 11 | US-11-228-875-15 | Sequence 15, Appl |
| 507 | 28 | 50.0 | 376 | 11 | US-11-188-298-9250 | Sequence 9250, Ap |
| 508 | 28 | 50.0 | 386 | 11 | US-11-096-568A-20432 | Sequence 20432, A |
| 509 | 28 | 50.0 | 391 | 11 | US-11-096-568A-18366 | Sequence 18366, A |
| 510 | 28 | 50.0 | 392 | 11 | US-11-188-298-8492 | Sequence 8492, Ap |
| 511 | 28 | 50.0 | 396 | 11 | US-11-096-568A-18365 | Sequence 18365, A |
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| 514 | 28 | 50.0 | 400 | 11 | US-11-228-923-2 | Sequence 2, Appli |
| 515 | 28 | 50.0 | 400 | 11 | US-11-228-875-2 | Sequence 2, Appli |
| 516 | 28 | 50.0 | 403 | 11 | US-11-096-568A-32637 | Sequence 32637, A |
| 517 | 28 | 50.0 | 411 | 11 | US-11-096-568A-3045 | Sequence 3045, Ap |
| 518 | 28 | 50.0 | 411 | 11 | US-11-096-568A-3047 | Sequence 3047, Ap |
| 519 | 28 | 50.0 | 413 | 9 | US-10-467-657-2122 | Sequence 2122, Ap |
| 520 | 28 | 50.0 | 415 | 11 | US-11-205-109-20 | Sequence 20, Appl |
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| 522 | 28 | 50.0 | 419 | 11 | US-11-072-512-3262 | Sequence 3262, Ap |
| 523 | 28 | 50.0 | 422 | 11 | US-11-120-308-40 | Sequence 40, Appl |
| 524 | 28 | 50.0 | 426 | 11 | US-11-096-568A-32636 | Sequence 32636, A |
| 525 | 28 | 50.0 | 436 | 11 | US-11-150-845-32 | Sequence 32, Appl |
| 526 | 28 | 50.0 | 436 | 11 | US-11-150-487-32 | Sequence 32, Appl |
| 527 | 28 | 50.0 | 437 | 9 | US-10-131-826A-466 | Sequence 466, App |
| 528 | 28 | 50.0 | 437 | 9 | US-10-973-115B-466 | Sequence 466, App |
| 529 | 28 | 50.0 | 437 | 9 | US-10-213-535-16 | Sequence 16, Appl |
| 530 | 28 | 50.0 | 437 | 9 | US-10-218-784-162 | Sequence 162, App |
| 531 | 28 | 50.0 | 437 | 9 | US-10-219-061-162 | Sequence 162, App |
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| 534 | 28 | 50.0 | 437 | 9 | US-10-233-134-162 | Sequence 162, App |
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| 536 | 28 | 50.0 | 437 | 9 | US-10-152-370-466 | Sequence 466, App |
| 537 | 28 | 50.0 | 437 | 11 | US-11-290-153-466 | Sequence 466, App |
| 538 | 28 | 50.0 | 439 | 11 | US-11-096-568A-20431 | Sequence 20431, A |
| 539 | 28 | 50.0 | 440 | 11 | US-11-072-512-3856 | Sequence 3856, Ap |
| 540 | 28 | 50.0 | 442 | 11 | US-11-172-740-789 | Sequence 789, App |
| 541 | 28 | 50.0 | 443 | 11 | US-11-096-568A-20430 | Sequence 20430, A |
| 542 | 28 | 50.0 | 447 | 11 | US-11-049-348-6 | Sequence 6, Appli |
| 543 | 28 | 50.0 | 448 | 11 | US-11-096-568A-18364 | Sequence 18364, A |
| 544 | 28 | 50.0 | 456 | 9 | US-10-793-626-1190 | Sequence 1190, Ap |
| 545 | 28 | 50.0 | 467 | 9 | US-10-455-772-466 | Sequence 466, App |
| 546 | 28 | 50.0 | 472 | 11 | US-11-188-298-10453 | Sequence 10453, A |
| 547 | 28 | 50.0 | 482 | 11 | US-11-229-371-87 | Sequence 87, Appl |
| 548 | 28 | 50.0 | 482 | 11 | US-11-229-371-177 | Sequence 177, App |
| 549 | 28 | 50.0 | 482 | 11 | US-11-228-923-87 | Sequence 87, Appl |
| 550 | 28 | 50.0 | 482 | 11 | US-11-228-923-177 | Sequence 177, App |
| 551 | 28 | 50.0 | 482 | 11 | US-11-228-875-87 | Sequence 87, Appl |
| 552 | 28 | 50.0 | 482 | 11 | US-11-228-875-177 | Sequence 177, App |
| 553 | 28 | 50.0 | 482 | 11 | US-11-096-568A-3044 | Sequence 3044, Ap |
| 554 | 28 | 50.0 | 491 | 11 | US-11-072-512-3727 | Sequence 3727, Ap |
| 555 | 28 | 50.0 | 497 | 9 | US-10-793-626-2812 | Sequence 2812, Ap |
| 556 | 28 | 50.0 | 554 | 11 | US-11-000-463-240 | Sequence 240, App |
| 557 | 28 | 50.0 | 559 | 11 | US-11-087-099-6344 | Sequence 6344, Ap |
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| 559 | 28 | 50.0 | 568 | 11 | US-11-049-348-5 | Sequence 5, Appli |
| 560 | 28 | 50.0 | 572 | 11 | US-11-079-463-8597 | Sequence 8597, Ap |
| 561 | 28 | 50.0 | 579 | 9 | US-10-501-841-107 | Sequence 107, App |
| 562 | 28 | 50.0 | 601 | 9 | US-10-995-561-993 | Sequence 993, App |
| 563 | 28 | 50.0 | 616 | 11 | US-11-072-512-2331 | Sequence 2331, Ap |
| 564 | 28 | 50.0 | 616 | 11 | US-11-188-298-6543 | Sequence 6543, Ap |
| 565 | 28 | 50.0 | 616 | 11 | US-11-188-298-13709 | Sequence 13709, A |
| 566 | 28 | 50.0 | 617 | 11 | US-11-188-298-21201 | Sequence 21201, A |
| 567 | 28 | 50.0 | 621 | 9 | US-10-632-150-28 | Sequence 28, Appl |
| 568 | 28 | 50.0 | 621 | 10 | US-11-106-014-28 | Sequence 28, Appl |
| 569 | 28 | 50.0 | 621 | 11 | US-11-073-457-28 | Sequence 28, Appl |
| 570 | 28 | 50.0 | 621 | 11 | US-11-073-460-28 | Sequence 28, Appl |
| 571 | 28 | 50.0 | 635 | 9 | US-10-995-561-996 | Sequence 996, App |
| 572 | 28 | 50.0 | 642 | 9 | US-10-995-561-631 | Sequence 631, App |
| 573 | 28 | 50.0 | 644 | 11 | US-11-072-512-2945 | Sequence 2945, Ap |
| 574 | 28 | 50.0 | 657 | 9 | US-10-995-561-622 | Sequence 622, App |
| 575 | 28 | 50.0 | 657 | 11 | US-11-193-561-27 | Sequence 27, Appl |
| 576 | 28 | 50.0 | 657 | 11 | US-11-193-771-27 | Sequence 27, Appl |
| 577 | 28 | 50.0 | 657 | 11 | US-11-193-789-27 | Sequence 27, Appl |
| 578 | 28 | 50.0 | 657 | 11 | US-11-193-806-27 | Sequence 27, Appl |
| 579 | 28 | 50.0 | 657 | 11 | US-11-193-857-27 | Sequence 27, Appl |
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| 582 | 28 | 50.0 | 702 | 11 | US-11-188-298-2115 | Sequence 2115, Ap |
| 583 | 28 | 50.0 | 708 | 11 | US-11-096-568A-27412 | Sequence 27412, A |
| 584 | 28 | 50.0 | 712 | 11 | US-11-037-243-69 | Sequence 69, Appl |
| 585 | 28 | 50.0 | 735 | 9 | US-10-506-443A-75 | Sequence 75, Appl |
| 586 | 28 | 50.0 | 745 | 9 | US-10-858-730-224 | Sequence 224, App |
| 587 | 28 | 50.0 | 745 | 11 | US-11-055-822-226 | Sequence 226, App |
| 588 | 28 | 50.0 | 745 | 11 | US-11-055-822-714 | Sequence 714, App |
| 589 | 28 | 50.0 | 745 | 11 | US-11-055-822-756 | Sequence 756, App |
| 590 | 28 | 50.0 | 745 | 11 | US-11-168-476-2 | Sequence 2, Appli |
| 591 | 28 | 50.0 | 745 | 11 | US-11-239-674-104 | Sequence 104, App |
| 592 | 28 | 50.0 | 759 | 9 | US-10-858-730-75 | Sequence 75, Appl |
| 593 | 28 | 50.0 | 760 | 9 | US-10-858-730-76 | Sequence 76, Appl |
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| 595 | 28 | 50.0 | 765 | 11 | US-11-045-004-1217 | Sequence 1217, Ap |
| 596 | 28 | 50.0 | 765 | 11 | US-11-242-650-8 | Sequence 8, Appli |
| 597 | 28 | 50.0 | 765 | 11 | US-11-242-650-16 | Sequence 16, Appl |
| 598 | 28 | 50.0 | 771 | 9 | US-10-467-657-5562 | Sequence 5562, Ap |
| 599 | 28 | 50.0 | 779 | 11 | US-11-188-298-12100 | Sequence 12100, A |
| 600 | 28 | 50.0 | 779 | 11 | US-11-188-298-14343 | Sequence 14343, A |
| 601 | 28 | 50.0 | 884 | 11 | US-11-087-099-11219 | Sequence 11219, A |
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| 604 | 28 | 50.0 | 984 | 9 | US-10-995-561-629 | Sequence 629, App |
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| 606 | 28 | 50.0 | 1043 | 8 | US-10-511-937-2452 | Sequence 2452, Ap |
| 607 | 28 | 50.0 | 1094 | 9 | US-10-204-639-22 | Sequence 22, Appl |
| 608 | 28 | 50.0 | 1113 | 11 | US-11-067-811-4 | Sequence 4, Appli |
| 609 | 28 | 50.0 | 1121 | 11 | US-11-113-751-24 | Sequence 24, Appl |
| 610 | 28 | 50.0 | 1159 | 11 | US-11-113-751-27 | Sequence 27, Appl |
| 611 | 28 | 50.0 | 1166 | 11 | US-11-096-568A-30860 | Sequence 30860, A |
| 612 | 28 | 50.0 | 1169 | 9 | US-10-995-561-609 | Sequence 609, App |
| 613 | 28 | 50.0 | 1169 | 11 | US-11-124-368A-228 | Sequence 228, App |
| 614 | 28 | 50.0 | 1185 | 9 | US-10-877-346-7 | Sequence 7, Appli |
| 615 | 28 | 50.0 | 1218 | 11 | US-11-096-568A-30859 | Sequence 30859, A |
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| 618 | 28 | 50.0 | 1980 | 10 | US-11-263-326-134 | Sequence 134, App |
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| 620 | 28 | 50.0 | 2176 | 11 | US-11-193-771-25 | Sequence 25, Appl |
| 621 | 28 | 50.0 | 2176 | 11 | US-11-193-789-25 | Sequence 25, Appl |
| 622 | 28 | 50.0 | 2176 | 11 | US-11-193-806-25 | Sequence 25, Appl |
| 623 | 28 | 50.0 | 2176 | 11 | US-11-193-857-25 | Sequence 25, Appl |
| 624 | 28 | 50.0 | 2217 | 11 | US-11-193-561-38 | Sequence 38, Appl |
| 625 | 28 | 50.0 | 2217 | 11 | US-11-193-771-38 | Sequence 38, Appl |
| 626 | 28 | 50.0 | 2217 | 11 | US-11-193-789-38 | Sequence 38, Appl |
| 627 | 28 | 50.0 | 2217 | 11 | US-11-193-806-38 | Sequence 38, Appl |
| 628 | 28 | 50.0 | 2217 | 11 | US-11-193-857-38 | Sequence 38, Appl |
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| 630 | 28 | 50.0 | 2223 | 11 | US-11-193-771-2 | Sequence 2, Appli |
| 631 | 28 | 50.0 | 2223 | 11 | US-11-193-789-2 | Sequence 2, Appli |
| 632 | 28 | 50.0 | 2223 | 11 | US-11-193-806-2 | Sequence 2, Appli |
| 633 | 28 | 50.0 | 2223 | 11 | US-11-193-857-2 | Sequence 2, Appli |
| 634 | 28 | 50.0 | 2296 | 9 | US-10-995-561-633 | Sequence 633, App |
| 635 | 28 | 50.0 | 2296 | 11 | US-11-193-561-23 | Sequence 23, Appl |
| 636 | 28 | 50.0 | 2296 | 11 | US-11-193-771-23 | Sequence 23, Appl |
| 637 | 28 | 50.0 | 2296 | 11 | US-11-193-789-23 | Sequence 23, Appl |
| 638 | 28 | 50.0 | 2296 | 11 | US-11-193-806-23 | Sequence 23, Appl |
| 639 | 28 | 50.0 | 2296 | 11 | US-11-193-857-23 | Sequence 23, Appl |
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| 641 | 28 | 50.0 | 2330 | 11 | US-11-193-771-21 | Sequence 21, Appl |
| 642 | 28 | 50.0 | 2330 | 11 | US-11-193-789-21 | Sequence 21, Appl |
| 643 | 28 | 50.0 | 2330 | 11 | US-11-193-806-21 | Sequence 21, Appl |
| 644 | 28 | 50.0 | 2330 | 11 | US-11-193-857-21 | Sequence 21, Appl |
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| 646 | 28 | 50.0 | 2355 | 9 | US-10-995-561-627 | Sequence 627, App |
| 647 | 28 | 50.0 | 2355 | 11 | US-11-193-561-19 | Sequence 19, Appl |
| 648 | 28 | 50.0 | 2355 | 11 | US-11-193-771-19 | Sequence 19, Appl |
| 649 | 28 | 50.0 | 2355 | 11 | US-11-193-789-19 | Sequence 19, Appl |
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| 651 | 28 | 50.0 | 2355 | 11 | US-11-193-857-19 | Sequence 19, Appl |
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| 653 | 28 | 50.0 | 2386 | 9 | US-10-995-561-626 | Sequence 626, App |
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| 655 | 28 | 50.0 | 2421 | 11 | US-11-193-771-17 | Sequence 17, Appl |
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| 657 | 28 | 50.0 | 2421 | 11 | US-11-193-806-17 | Sequence 17, Appl |
| 658 | 28 | 50.0 | 2421 | 11 | US-11-193-857-17 | Sequence 17, Appl |
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| 673 | 27 | 48.2 | 13 | 11 | US-11-152-974A-328 | Sequence 328, App |
| 674 | 27 | 48.2 | 13 | 11 | US-11-153-143A-328 | Sequence 328, App |
| 675 | 27 | 48.2 | 16 | 11 | US-11-054-515-2891 | Sequence 2891, Ap |
| 676 | 27 | 48.2 | 16 | 11 | US-11-266-444-2891 | Sequence 2891, Ap |
| 677 | 27 | 48.2 | 17 | 11 | US-11-054-515-2831 | Sequence 2831, Ap |
| 678 | 27 | 48.2 | 17 | 11 | US-11-152-974A-180 | Sequence 180, App |

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| 680 | 27 | 48.2 | 17 | 11 | US-11-266-444-2831 | Sequence 2831, Ap |
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| 684 | 27 | 48.2 | 22 | 11 | US-11-004-399-1721 | Sequence 1721, Ap |
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| 691 | 27 | 48.2 | 42 | 11 | US-11-177-509-54 | Sequence 54, Appl |
| 692 | 27 | 48.2 | 42 | 11 | US-11-177-509-55 | Sequence 55, Appl |
| 693 | 27 | 48.2 | 42 | 11 | US-11-177-509-56 | Sequence 56, Appl |
| 694 | 27 | 48.2 | 42 | 11 | US-11-177-509-57 | Sequence 57, Appl |
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| 696 | 27 | 48.2 | 42 | 11 | US-11-177-509-59 | Sequence 59, Appl |
| 697 | 27 | 48.2 | 42 | 11 | US-11-177-509-60 | Sequence 60, Appl |
| 698 | 27 | 48.2 | 42 | 11 | US-11-177-509-61 | Sequence 61, Appl |
| 699 | 27 | 48.2 | 42 | 11 | US-11-177-509-62 | Sequence 62, Appl |
| 700 | 27 | 48.2 | 42 | 11 | US-11-177-509-63 | Sequence 63, Appl |
| 701 | 27 | 48.2 | 42 | 11 | US-11-177-509-64 | Sequence 64, Appl |
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| 704 | 27 | 48.2 | 42 | 11 | US-11-177-509-68 | Sequence 68, Appl |
| 705 | 27 | 48.2 | 42 | 11 | US-11-177-509-69 | Sequence 69, Appl |
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| 709 | 27 | 48.2 | 42 | 11 | US-11-177-509-73 | Sequence 73, Appl |
| 710 | 27 | 48.2 | 42 | 11 | US-11-177-509-74 | Sequence 74, Appl |
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| 712 | 27 | 48.2 | 42 | 11 | US-11-177-509-76 | Sequence 76, Appl |
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| 715 | 27 | 48.2 | 42 | 11 | US-11-177-509-79 | Sequence 79, Appl |
| 716 | 27 | 48.2 | 42 | 11 | US-11-177-509-80 | Sequence 80, Appl |
| 717 | 27 | 48.2 | 42 | 11 | US-11-177-509-81 | Sequence 81, Appl |
| 718 | 27 | 48.2 | 42 | 11 | US-11-177-509-82 | Sequence 82, Appl |
| 719 | 27 | 48.2 | 42 | 11 | US-11-177-509-83 | Sequence 83, Appl |
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| 721 | 27 | 48.2 | 67 | 11 | US-11-264-096-880 | Sequence 880, App |
| 722 | 27 | 48.2 | 70 | 11 | US-11-264-096-380 | Sequence 380, App |
| 723 | 27 | 48.2 | 74 | 11 | US-11-079-463-7251 | Sequence 7251, Ap |
| 724 | 27 | 48.2 | 75 | 11 | US-11-144-947-543 | Sequence 543, App |
| 725 | 27 | 48.2 | 79 | 11 | US-11-144-947-378 | Sequence 378, App |
| 726 | 27 | 48.2 | 86 | 11 | US-11-264-096-881 | Sequence 881, App |
| 727 | 27 | 48.2 | 88 | 11 | US-11-022-477-2 | Sequence 2, Appli |
| 728 | 27 | 48.2 | 100 | 11 | US-11-079-463-6276 | Sequence 6276, Ap |
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| 731 | 27 | 48.2 | 113 | 11 | US-11-264-096-1539 | Sequence 1539, Ap |
| 732 | 27 | 48.2 | 113 | 11 | US-11-264-096-1540 | Sequence 1540, Ap |
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| 739 | 27 | 48.2 | 148 | 11 | US-11-087-099-3712 | Sequence 3712, Ap |
| 740 | 27 | 48.2 | 149 | 9 | US-10-530-253-16 | Sequence 16, Appl |
| 741 | 27 | 48.2 | 159 | 11 | US-11-096-568A-11988 | Sequence 11988, A |
| 742 | 27 | 48.2 | 171 | 11 | US-11-188-298-18315 | Sequence 18315, A |
| 743 | 27 | 48.2 | 175 | 11 | US-11-133-465A-1 | Sequence 1, Appli |
| 744 | 27 | 48.2 | 179 | 11 | US-11-098-686-11379 | Sequence 11379, A |
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| 747 | 27 | 48.2 | 185 | 11 | US-11-150-887-45 | Sequence 45, Appl |
| 748 | 27 | 48.2 | 192 | 11 | US-11-096-568A-33647 | Sequence 33647, A |
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| 750 | 27 | 48.2 | 199 | 11 | US-11-096-568A-28556 | Sequence 28556, A |
| 751 | 27 | 48.2 | 199 | 11 | US-11-096-568A-29576 | Sequence 29576, A |
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| 754 | 27 | 48.2 | 202 | 11 | US-11-096-568A-438 | Sequence 438, App |
| 755 | 27 | 48.2 | 204 | 11 | US-11-096-568A-31360 | Sequence 31360, A |
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| 757 | 27 | 48.2 | 211 | 11 | US-11-124-368A-175 | Sequence 175, App |
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| 767 | 27 | 48.2 | 236 | 9 | US-10-926-406A-9 | Sequence 9, Appli |
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| 771 | 27 | 48.2 | 238 | 11 | US-11-050-857-606 | Sequence 606, App |
| 772 | 27 | 48.2 | 238 | 11 | US-11-087-099-3032 | Sequence 3032, Ap |
| 773 | 27 | 48.2 | 238 | 11 | US-11-051-720-1288 | Sequence 1288, Ap |
| 774 | 27 | 48.2 | 239 | 11 | US-11-096-568A-21249 | Sequence 21249, A |
| 775 | 27 | 48.2 | 240 | 11 | US-11-188-298-18906 | Sequence 18906, A |
| 776 | 27 | 48.2 | 242 | 9 | US-10-926-406A-10 | Sequence 10, Appl |
| 777 | 27 | 48.2 | 242 | 11 | US-11-096-568A-2215 | Sequence 2215, Ap |
| 778 | 27 | 48.2 | 242 | 11 | US-11-096-568A-21248 | Sequence 21248, A |
| 779 | 27 | 48.2 | 246 | 11 | US-11-172-740-1320 | Sequence 1320, Ap |
| 780 | 27 | 48.2 | 248 | 11 | US-11-054-515-959 | Sequence 959, App |
| 781 | 27 | 48.2 | 248 | 11 | US-11-266-444-959 | Sequence 959, App |
| 782 | 27 | 48.2 | 249 | 9 | US-10-926-406A-7 | Sequence 7, Appli |
| 783 | 27 | 48.2 | 250 | 11 | US-11-087-099-10737 | Sequence 10737, A |
| 784 | 27 | 48.2 | 252 | 11 | US-11-096-568A-28554 | Sequence 28554, A |
| 785 | 27 | 48.2 | 253 | 11 | US-11-054-515-1530 | Sequence 1530, Ap |
| 786 | 27 | 48.2 | 253 | 11 | US-11-054-515-1850 | Sequence 1850, Ap |
| 787 | 27 | 48.2 | 253 | 11 | US-11-054-515-1859 | Sequence 1859, Ap |
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| 790 | 27 | 48.2 | 253 | 11 | US-11-266-444-1859 | Sequence 1859, Ap |
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| 793 | 27 | 48.2 | 257 | 11 | US-11-087-099-328 | Sequence 328, App |
| 794 | 27 | 48.2 | 258 | 11 | US-11-228-039-2 | Sequence 2, Appli |
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| 796 | 27 | 48.2 | 262 | 11 | US-11-054-281-89 | Sequence 89, Appl |
| 797 | 27 | 48.2 | 265 | 11 | US-11-079-463-5433 | Sequence 5433, Ap |
| 798 | 27 | 48.2 | 266 | 11 | US-11-054-281-88 | Sequence 88, Appl |
| 799 | 27 | 48.2 | 266 | 11 | US-11-096-568A-23471 | Sequence 23471, A |
| 800 | 27 | 48.2 | 267 | 11 | US-11-098-686-11036 | Sequence 11036, A |
| 801 | 27 | 48.2 | 269 | 11 | US-11-096-568A-33646 | Sequence 33646, A |
| 802 | 27 | 48.2 | 272 | 11 | US-11-096-568A-31359 | Sequence 31359, A |
| 803 | 27 | 48.2 | 273 | 11 | US-11-096-568A-2214 | Sequence 2214, Ap |
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| 805 | 27 | 48.2 | 279 | 9 | US-10-793-626-870 | Sequence 870, App |
| 806 | 27 | 48.2 | 281 | 9 | US-10-915-002-174 | Sequence 174, App |
| 807 | 27 | 48.2 | 283 | 11 | US-11-050-857-603 | Sequence 603, App |
| 808 | 27 | 48.2 | 283 | 11 | US-11-051-720-1285 | Sequence 1285, Ap |
| 809 | 27 | 48.2 | 283 | 11 | US-11-096-568A-19842 | Sequence 19842, A |
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| 814 | 27 | 48.2 | 290 | 11 | US-11-096-568A-16567 | Sequence 16567, A |
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| 817 | 27 | 48.2 | 295 | 11 | US-11-188-298-2076 | Sequence 2076, Ap |
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| 823 | 27 | 48.2 | 308 | 11 | US-11-004-399-457 | Sequence 457, App |
| 824 | 27 | 48.2 | 308 | 11 | US-11-004-399-3890 | Sequence 3890, Ap |

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| 828 | 27 | 48.2 | 312 | 11 | US-11-096-568A-15553 | Sequence 15553, A |
| 829 | 27 | 48.2 | 312 | 11 | US-11-079-463-8956 | Sequence 8956, Ap |
| 830 | 27 | 48.2 | 314 | 11 | US-11-264-096-1168 | Sequence 1168, Ap |
| 831 | 27 | 48.2 | 314 | 11 | US-11-264-096-2037 | Sequence 2037, Ap |
| 832 | 27 | 48.2 | 315 | 11 | US-11-096-568A-2213 | Sequence 2213, Ap |
| 833 | 27 | 48.2 | 315 | 11 | US-11-096-568A-23470 | Sequence 23470, A |
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| 835 | 27 | 48.2 | 320 | 11 | US-11-096-568A-4699 | Sequence 4699, Ap |
| 836 | 27 | 48.2 | 320 | 11 | US-11-096-568A-15552 | Sequence 15552, A |
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| 838 | 27 | 48.2 | 325 | 11 | US-11-087-099-1488 | Sequence 1488, Ap |
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| 842 | 27 | 48.2 | 332 | 11 | US-11-188-298-9118 | Sequence 9118, Ap |
| 843 | 27 | 48.2 | 333 | 11 | US-11-096-568A-18356 | Sequence 18356, A |
| 844 | 27 | 48.2 | 334 | 11 | US-11-096-568A-3830 | Sequence 3830, Ap |
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| 846 | 27 | 48.2 | 336 | 11 | US-11-087-099-9495 | Sequence 9495, Ap |
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| 850 | 27 | 48.2 | 342 | 11 | US-11-096-568A-19514 | Sequence 19514, A |
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| 863 | 27 | 48.2 | 359 | 11 | US-11-096-568A-33804 | Sequence 33804, A |
| 864 | 27 | 48.2 | 359 | 11 | US-11-172-740-1639 | Sequence 1639, Ap |
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| 869 | 27 | 48.2 | 362 | 11 | US-11-188-298-5068 | Sequence 5068, Ap |
| 870 | 27 | 48.2 | 363 | 11 | US-11-050-857-605 | Sequence 605, App |
| 871 | 27 | 48.2 | 363 | 11 | US-11-051-720-1287 | Sequence 1287, Ap |
| 872 | 27 | 48.2 | 367 | 11 | US-11-150-887-44 | Sequence 44, Appl |
| 873 | 27 | 48.2 | 368 | 11 | US-11-072-512-3187 | Sequence 3187, Ap |
| 874 | 27 | 48.2 | 368 | 11 | US-11-087-099-3271 | Sequence 3271, Ap |
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| 876 | 27 | 48.2 | 374 | 9 | US-10-520-820-4 | Sequence 4, Appli |
| 877 | 27 | 48.2 | 375 | 11 | US-11-079-463-9091 | Sequence 9091, Ap |
| 878 | 27 | 48.2 | 376 | 11 | US-11-087-099-4647 | Sequence 4647, Ap |
| 879 | 27 | 48.2 | 377 | 11 | US-11-188-298-5869 | Sequence 5869, Ap |
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| 883 | 27 | 48.2 | 378 | 11 | US-11-228-923-88 | Sequence 88, Appl |
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| 892 | 27 | 48.2 | 386 | 11 | US-11-188-298-10872 | Sequence 10872, A |
| 893 | 27 | 48.2 | 387 | 9 | US-10-510-386-212 | Sequence 212, App |
| 894 | 27 | 48.2 | 389 | 11 | US-11-079-463-10015 | Sequence 10015, A |
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| 899 | 27 | 48.2 | 392 | 11 | US-11-188-298-14860 | Sequence 14860, A |
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| 907 | 27 | 48.2 | 394 | 11 | US-11-188-298-8142 | Sequence 8142, Ap |
| 908 | 27 | 48.2 | 394 | 11 | US-11-188-298-17480 | Sequence 17480, A |
| 909 | 27 | 48.2 | 398 | 11 | US-11-096-568A-11824 | Sequence 11824, A |
| 910 | 27 | 48.2 | 406 | 11 | US-11-087-099-8919 | Sequence 8919, Ap |
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| 915 | 27 | 48.2 | 410 | 11 | US-11-172-740-1641 | Sequence 1641, Ap |
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| 917 | 27 | 48.2 | 414 | 11 | US-11-229-371-89 | Sequence 89, Appl |
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| 921 | 27 | 48.2 | 414 | 11 | US-11-228-875-89 | Sequence 89, Appl |
| 922 | 27 | 48.2 | 417 | 11 | US-11-096-568A-15429 | Sequence 15429, A |
| 923 | 27 | 48.2 | 418 | 11 | US-11-226-567-8 | Sequence 8, Appli |
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| 928 | 27 | 48.2 | 420 | 11 | US-11-096-568A-13013 | Sequence 13013, A |
| 929 | 27 | 48.2 | 420 | 11 | US-11-188-298-14480 | Sequence 14480, A |
| 930 | 27 | 48.2 | 423 | 11 | US-11-087-099-1804 | Sequence 1804, Ap |
| 931 | 27 | 48.2 | 423 | 11 | US-11-087-099-3527 | Sequence 3527, Ap |
| 932 | 27 | 48.2 | 424 | 11 | US-11-144-947-555 | Sequence 555, App |
| 933 | 27 | 48.2 | 426 | 9 | US-10-821-234-1585 | Sequence 1585, Ap |
| 934 | 27 | 48.2 | 426 | 9 | US-10-948-716-9 | Sequence 9, Appli |
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| 936 | 27 | 48.2 | 428 | 11 | US-11-138-642-8 | Sequence 8, Appli |
| 937 | 27 | 48.2 | 428 | 11 | US-11-138-882-8 | Sequence 8, Appli |
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| 943 | 27 | 48.2 | 446 | 11 | US-11-229-371-92 | Sequence 92, Appl |
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| 945 | 27 | 48.2 | 446 | 11 | US-11-228-875-92 | Sequence 92, Appl |
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| 947 | 27 | 48.2 | 447 | 11 | US-11-050-857-604 | Sequence 604, App |
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| 949 | 27 | 48.2 | 451 | 9 | US-10-131-826A-126 | Sequence 126, App |
| 950 | 27 | 48.2 | 451 | 9 | US-10-973-115B-126 | Sequence 126, App |
| 951 | 27 | 48.2 | 451 | 9 | US-10-137-873A-126 | Sequence 126, App |
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| 955 | 27 | 48.2 | 455 | 11 | US-11-098-686-10297 | Sequence 10297, A |
| 956 | 27 | 48.2 | 457 | 11 | US-11-096-568A-19512 | Sequence 19512, A |
| 957 | 27 | 48.2 | 459 | 11 | US-11-143-984A-31 | Sequence 31, Appl |
| 958 | 27 | 48.2 | 462 | 11 | US-11-177-506-41 | Sequence 41, Appl |
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| 960 | 27 | 48.2 | 470 | 11 | US-11-121-438-35 | Sequence 35, Appl |
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| 962 | 27 | 48.2 | 474 | 9 | US-10-986-501-249 | Sequence 249, App |
| 963 | 27 | 48.2 | 478 | 11 | US-11-177-506-51 | Sequence 51, Appl |
| 964 | 27 | 48.2 | 478 | 11 | US-11-050-857-602 | Sequence 602, App |
| 965 | 27 | 48.2 | 478 | 11 | US-11-050-857-1000 | Sequence 1000, Ap |
| 966 | 27 | 48.2 | 478 | 11 | US-11-087-099-8625 | Sequence 8625, Ap |
| 967 | 27 | 48.2 | 478 | 11 | US-11-051-720-1418 | Sequence 1418, Ap |
| 968 | 27 | 48.2 | 478 | 11 | US-11-051-720-1696 | Sequence 1696, Ap |
| 969 | 27 | 48.2 | 478 | 11 | US-11-172-740-1058 | Sequence 1058, Ap |
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| 973 | 27 | 48.2 | 484 | 11 | US-11-096-568A-19387 | Sequence 19387, A |
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| 976 | 27 | 48.2 | 496 | 11 | US-11-079-463-9399 | Sequence 9399, Ap |
| 977 | 27 | 48.2 | 498 | 11 | US-11-188-298-6293 | Sequence 6293, Ap |
| 978 | 27 | 48.2 | 508 | 11 | US-11-079-463-6229 | Sequence 6229, Ap |
| 979 | 27 | 48.2 | 511 | 11 | US-11-188-298-5120 | Sequence 5120, Ap |
| 980 | 27 | 48.2 | 529 | 9 | US-10-952-251-4 | Sequence 4, Appli |
| 981 | 27 | 48.2 | 549 | 11 | US-11-079-463-9523 | Sequence 9523, Ap |
| 982 | 27 | 48.2 | 550 | 9 | US-10-467-657-234 | Sequence 234, App |
| 983 | 27 | 48.2 | 550 | 9 | US-10-467-657-924 | Sequence 924, App |
| 984 | 27 | 48.2 | 550 | 11 | US-11-188-298-6080 | Sequence 6080, Ap |
| 985 | 27 | 48.2 | 550 | 11 | US-11-188-298-20581 | Sequence 20581, A |
| 986 | 27 | 48.2 | 550 | 11 | US-11-264-096-1284 | Sequence 1284, Ap |
| 987 | 27 | 48.2 | 551 | 11 | US-11-087-099-8478 | Sequence 8478, Ap |
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| 991 | 27 | 48.2 | 552 | 9 | US-10-152-370-196 | Sequence 196, App |
| 992 | 27 | 48.2 | 552 | 11 | US-11-072-512-2405 | Sequence 2405, Ap |
| 993 | 27 | 48.2 | 552 | 11 | US-11-290-153-196 | Sequence 196, App |
| 994 | 27 | 48.2 | 558 | 11 | US-11-096-568A-26137 | Sequence 26137, A |
| 995 | 27 | 48.2 | 559 | 11 | US-11-096-568A-26136 | Sequence 26136, A |
| 996 | 27 | 48.2 | 562 | 11 | US-11-098-686-11416 | Sequence 11416, A |
| 997 | 27 | 48.2 | 567 | 11 | US-11-096-568A-2432 | Sequence 2432, Ap |
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| 999 | 27 | 48.2 | 580 | 11 | US-11-143-984A-30 | Sequence 30, Appl |
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ALIGNMENTS

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RESULT 1
US-10-530-061-124
; Sequence 124, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 124
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-124

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Db          1 EYRHYCYSL 9


RESULT 2
US-10-530-061-850
; Sequence 850, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 850
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-850

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Db          1 EYRHYCYSL 9


RESULT 3
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
;  APPLICANT: HealthBanks Biotech CO. LTD.
;  TITLE OF INVENTION: Fusion protein for inhibiting cervcal cancer
;  FILE REFERENCE: P7819/0613
;  CURRENT APPLICATION NUMBER: US/11/206,138
;  CURRENT FILING DATE:  2005-08-18
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-11-206-138-3

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Db         82 EYRHYCYSL 90


RESULT 4
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
;  APPLICANT: PANG, XIAOWU
;  TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
;  TITLE OF INVENTION:  RECOMBINANT REPLICON
;  FILE REFERENCE: 116620-003
;  CURRENT APPLICATION NUMBER: US/11/192,923A
;  CURRENT FILING DATE:  2005-07-29
;  PRIOR APPLICATION NUMBER: CN 03115272.4
;  PRIOR FILING DATE: 2003-01-30
;  PRIOR APPLICATION NUMBER: CN 03115273.2
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;  PRIOR FILING DATE: 2003-01-30
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
;    LENGTH: 256
;    TYPE: PRT
;    ORGANISM: Human papillomavirus
US-11-192-923A-2

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Db        180 EYRHYCYSL 188


RESULT 5
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
;    LENGTH: 151
;    TYPE: PRT
;    ORGANISM: Human papillomavirus type 16
US-10-530-253-13

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Db         75 EYRHYCYSV 83


RESULT 6
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;    LENGTH: 248
;    TYPE: PRT
;    ORGANISM: Human papillomavirus type 16
US-10-530-253-1

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Qy          1 EYRHYCYSL 9
              ||||||||:
Db         75 EYRHYCYSV 83


RESULT 7
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;    LENGTH: 248
;    TYPE: PRT
;    ORGANISM: Human papillomavirus type 16
US-10-530-253-3

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Db         75 EYRHYCYSV 83


RESULT 8
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
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;    TYPE: PRT
;    ORGANISM: Human papillomavirus type 16
US-10-530-253-5

  Query Match             94.6%;  Score 53;  DB 9;  Length 248;
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Db         75 EYRHYCYSV 83


RESULT 9
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-7

  Query Match             94.6%;  Score 53;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 0.13;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||:
Db        172 EYRHYCYSV 180


RESULT 10
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-9

  Query Match             94.6%;  Score 53;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 0.13;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||:
Db        172 EYRHYCYSV 180


RESULT 11
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-11

  Query Match             94.6%;  Score 53;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 0.13;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              |||||||||:
Db        172 EYRHYCYSV 180


RESULT 12
US-10-530-061-128
; Sequence 128, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 128
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-128

  Query Match             87.5%;  Score 49;  DB 9;  Length 10;
  Best Local Similarity   88.9%;  Pred. No. 0.048;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              || ||||||
Db          1 EYDHYCYSL 9


RESULT 13
```

US-10-530-061-853
; Sequence 853, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 853
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-853

Query Match 87.5%; Score 49; DB 9; Length 10;
Best Local Similarity 88.9%; Pred. No. 0.048;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
|| |||||||
Db 1 EYDHYCYSL 9

RESULT 14
US-10-530-061-505
; Sequence 505, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 505
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-505

Query Match 85.7%; Score 48; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.069;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EYRHYCY 7
|||||||
Db 4 EYRHYCY 10

RESULT 15
US-10-530-061-127
; Sequence 127, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 127
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-127

Query Match 83.9%; Score 47; DB 9; Length 10;
Best Local Similarity 88.9%; Pred. No. 0.1;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
| |||||||
Db 1 ETRHYCYSL 9

RESULT 16
US-10-530-061-852
; Sequence 852, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 852
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-852

Query Match 83.9%; Score 47; DB 9; Length 10;
Best Local Similarity 88.9%; Pred. No. 0.1;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
| |||||||
Db 1 ETRHYCYSL 9

RESULT 17
US-10-530-061-125
; Sequence 125, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT

; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 125
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-125

Query Match 78.6%; Score 44; DB 9; Length 10;
Best Local Similarity 88.9%; Pred. No. 0.3;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
||||| |||
Db 1 EYRHYNYSL 9

RESULT 18
US-10-530-061-851
; Sequence 851, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 851
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-851

Query Match 78.6%; Score 44; DB 9; Length 10;
Best Local Similarity 88.9%; Pred. No. 0.3;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
||||| |||
Db 1 EYRHYNYSL 9

RESULT 19
US-10-530-253-22
; Sequence 22, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 22
; LENGTH: 148
; TYPE: PRT
; ORGANISM: Human papillomavirus type 52
US-10-530-253-22

Query Match 78.6%; Score 44; DB 9; Length 148;
Best Local Similarity 88.9%; Pred. No. 2.5;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
||||| |||
Db 75 EYRHYQYSL 83

RESULT 20
US-10-530-253-24
; Sequence 24, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 24
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 58
US-10-530-253-24

Query Match 78.6%; Score 44; DB 9; Length 149;
Best Local Similarity 88.9%; Pred. No. 2.5;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
||||| |||
Db 75 EYRHYNYSL 83

RESULT 21
US-10-530-061-506
; Sequence 506, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207

; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 506
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-506

Query Match 73.2%; Score 41; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.92;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EYRHYC 6
||||||
Db 4 EYRHYC 9

RESULT 22
US-10-530-253-17
; Sequence 17, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 33
US-10-530-253-17

Query Match 73.2%; Score 41; DB 9; Length 149;
Best Local Similarity 77.8%; Pred. No. 7.6;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 EYRHYCYSL 9
||||| ||:
Db 75 EYRHYNYSV 83

RESULT 23
US-10-530-061-99
; Sequence 99, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 99
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-99

Query Match 71.4%; Score 40; DB 9; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.9e+05;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 EYRHYCYS 8
||||| ||
Db 1 EYRHYQYS 8

RESULT 24
US-10-530-061-832
; Sequence 832, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 832
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-832

Query Match 71.4%; Score 40; DB 9; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.9e+05;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 EYRHYCYS 8
||||| ||
Db 1 EYRHYQYS 8

RESULT 25
US-10-530-061-1657
; Sequence 1657, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1657
; LENGTH: 15

```
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-1657

  Query Match             69.6%;  Score 39;  DB 9;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 2.7;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 HYCYSL 9
              ||||||
Db          1 HYCYSL 6


RESULT 26
US-10-530-061-132
; Sequence 132, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 132
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-132

  Query Match             66.1%;  Score 37;  DB 9;  Length 10;
  Best Local Similarity   77.8%;  Pred. No. 4.1;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              || || |||
Db          1 EYDHYNYSL 9


RESULT 27
US-10-530-061-857
; Sequence 857, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 857
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-857

  Query Match             66.1%;  Score 37;  DB 9;  Length 10;
  Best Local Similarity   77.8%;  Pred. No. 4.1;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 EYRHYCYSL 9
              || || |||
Db          1 EYDHYNYSL 9


RESULT 28
US-10-860-501-5
; Sequence 5, Application US/10860501
; Publication No. US20050271638A1
; GENERAL INFORMATION:
;  APPLICANT: Li, Linheng
;  APPLICANT:  He, Xi
;  TITLE OF INVENTION: BMP PATHWAY METHODS AND COMPOSITIONS
;  FILE REFERENCE: 64991
;  CURRENT APPLICATION NUMBER: US/10/860,501
;  CURRENT FILING DATE:  2004-06-03
;  NUMBER OF SEQ ID NOS: 12
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5
;   LENGTH: 456
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-10-860-501-5

  Query Match             66.1%;  Score 37;  DB 9;  Length 456;
  Best Local Similarity   62.5%;  Pred. No. 80;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YRHYCYSL 9
              |:||| |:
Db        132 YKHYCKSI 139


RESULT 29
US-10-956-882-5
; Sequence 5, Application US/10956882
; Publication No. US20060073117A1
; GENERAL INFORMATION:
;  APPLICANT: Stowers Institude for Medical Research
;  APPLICANT:  Li, Linheng
;  TITLE OF INVENTION: Methods and Compositions for Controling Hair Follicle Stem Cell
;  TITLE OF INVENTION:  Fate
;  FILE REFERENCE: 064995
;  CURRENT APPLICATION NUMBER: US/10/956,882
;  CURRENT FILING DATE:  2004-10-01
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 5
;   LENGTH: 456
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-10-956-882-5

  Query Match             66.1%;  Score 37;  DB 9;  Length 456;
  Best Local Similarity   62.5%;  Pred. No. 80;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YRHYCYSL 9
              |:||| |:
Db        132 YKHYCKSI 139


RESULT 30
US-10-860-501-4
; Sequence 4, Application US/10860501
; Publication No. US20050271638A1
; GENERAL INFORMATION:
;  APPLICANT: Li, Linheng
```

```
;  APPLICANT:  He, Xi
;  TITLE OF INVENTION: BMP PATHWAY METHODS AND COMPOSITIONS
;  FILE REFERENCE: 64991
;  CURRENT APPLICATION NUMBER: US/10/860,501
;  CURRENT FILING DATE:  2004-06-03
;  NUMBER OF SEQ ID NOS: 12
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
;   LENGTH: 500
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-10-860-501-4

  Query Match             66.1%;  Score 37;  DB 9;  Length 500;
  Best Local Similarity   62.5%;  Pred. No. 86;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YRHYCYSL 9
              |:||| |:
Db        176 YKHYCKSI 183


RESULT 31
US-10-956-882-4
; Sequence 4, Application US/10956882
; Publication No. US20060073117A1
; GENERAL INFORMATION:
;  APPLICANT: Stowers Institude for Medical Research
;  APPLICANT:  Li, Linheng
;  TITLE OF INVENTION: Methods and Compositions for Controling Hair Follicle Stem Cell
;  TITLE OF INVENTION:  Fate
;  FILE REFERENCE: 064995
;  CURRENT APPLICATION NUMBER: US/10/956,882
;  CURRENT FILING DATE:  2004-10-01
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 4
;   LENGTH: 500
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-10-956-882-4

  Query Match             66.1%;  Score 37;  DB 9;  Length 500;
  Best Local Similarity   62.5%;  Pred. No. 86;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YRHYCYSL 9
              |:||| |:
Db        176 YKHYCKSI 183


RESULT 32
US-10-860-501-7
; Sequence 7, Application US/10860501
; Publication No. US20050271638A1
; GENERAL INFORMATION:
;  APPLICANT: Li, Linheng
;  APPLICANT:  He, Xi
;  TITLE OF INVENTION: BMP PATHWAY METHODS AND COMPOSITIONS
;  FILE REFERENCE: 64991
;  CURRENT APPLICATION NUMBER: US/10/860,501
;  CURRENT FILING DATE:  2004-06-03
;  NUMBER OF SEQ ID NOS: 12
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 7
;   LENGTH: 532
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-860-501-7

  Query Match             66.1%;  Score 37;  DB 9;  Length 532;
  Best Local Similarity   62.5%;  Pred. No. 90;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YRHYCYSL 9
              |:||| |:
Db        176 YKHYCKSI 183


RESULT 33
US-10-956-882-7
; Sequence 7, Application US/10956882
; Publication No. US20060073117A1
; GENERAL INFORMATION:
;  APPLICANT: Stowers Institude for Medical Research
;  APPLICANT:  Li, Linheng
;  TITLE OF INVENTION: Methods and Compositions for Controling Hair Follicle Stem Cell
;  TITLE OF INVENTION:  Fate
;  FILE REFERENCE: 064995
;  CURRENT APPLICATION NUMBER: US/10/956,882
;  CURRENT FILING DATE:  2004-10-01
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 7
;   LENGTH: 532
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-956-882-7

  Query Match             66.1%;  Score 37;  DB 9;  Length 532;
  Best Local Similarity   62.5%;  Pred. No. 90;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YRHYCYSL 9
              |:||| |:
Db        176 YKHYCKSI 183


RESULT 34
US-10-530-061-41
; Sequence 41, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 41
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-41

  Query Match             64.3%;  Score 36;  DB 9;  Length 9;
  Best Local Similarity   85.7%;  Pred. No. 1.9e+05;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 EYRHYCY 7
              ||||| |
Db          3 EYRHYNY 9


RESULT 35
US-10-530-061-71
; Sequence 71, Application US/10530061
```

```
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 71
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-71

  Query Match             64.3%;  Score 36;  DB 9;  Length 9;
  Best Local Similarity   85.7%;  Pred. No. 1.9e+05;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 EYRHYCY 7
              ||||| |
Db          3 EYRHYNY 9


RESULT 36
US-10-530-061-73
; Sequence 73, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 73
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-73

  Query Match             64.3%;  Score 36;  DB 9;  Length 9;
  Best Local Similarity   85.7%;  Pred. No. 1.9e+05;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 EYRHYCY 7
              ||||| |
Db          3 EYRHYQY 9


RESULT 37
US-10-530-061-122
; Sequence 122, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 122
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-122

  Query Match             64.3%;  Score 36;  DB 9;  Length 9;
  Best Local Similarity   85.7%;  Pred. No. 1.9e+05;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 EYRHYCY 7
              ||||| |
Db          3 EYRHYQY 9


RESULT 38
US-10-530-061-776
; Sequence 776, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 776
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-776

  Query Match             64.3%;  Score 36;  DB 9;  Length 9;
  Best Local Similarity   85.7%;  Pred. No. 1.9e+05;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 EYRHYCY 7
              ||||| |
Db          3 EYRHYNY 9


RESULT 39
US-10-530-061-475
; Sequence 475, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
```

```
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 475
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-475

  Query Match             64.3%;  Score 36;  DB 9;  Length 10;
  Best Local Similarity   85.7%;  Pred. No. 5.9;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 EYRHYCY 7
              ||||| |
Db          4 EYRHYNY 10


RESULT 40
US-10-530-061-553
; Sequence 553, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 553
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-553

  Query Match             64.3%;  Score 36;  DB 9;  Length 10;
  Best Local Similarity   85.7%;  Pred. No. 5.9;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 EYRHYCY 7
              ||||| |
Db          4 EYRHYNY 10


RESULT 41
US-10-530-061-598
; Sequence 598, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 598
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-598

  Query Match             64.3%;  Score 36;  DB 9;  Length 10;
  Best Local Similarity   85.7%;  Pred. No. 5.9;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 EYRHYCY 7
              ||||| |
Db          4 EYRHYNY 10


RESULT 42
US-11-079-463-6354
; Sequence 6354, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRAC
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PATH00-03DIV2
;  CURRENT APPLICATION NUMBER: US/11/079,463
;  CURRENT FILING DATE:  2005-03-14
;  PRIOR APPLICATION NUMBER: US 60/128,705
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/540,209
;  PRIOR FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 6354
;   LENGTH: 355
;   TYPE: PRT
;   ORGANISM: B.fragilis
US-11-079-463-6354

  Query Match             64.3%;  Score 36;  DB 11;  Length 355;
  Best Local Similarity   62.5%;  Pred. No. 95;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 YRHYCYSL 9
              | :||| |
Db        347 YHYYCYQL 354


RESULT 43
US-10-821-234-1626
; Sequence 1626, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
;  APPLICANT: Labat, Ivan
;  APPLICANT:  Stache-Crain, Birgit
;  APPLICANT:  Andarmani, Susan
;  APPLICANT:  Tang, Y. Tom
;  TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
;  FILE REFERENCE: 821A
;  CURRENT APPLICATION NUMBER: US/10/821,234
;  CURRENT FILING DATE:  2004-04-07
;  PRIOR APPLICATION NUMBER: US 60/462,047
;  PRIOR FILING DATE: 2003-04-07
;  NUMBER OF SEQ ID NOS: 1704
;  SOFTWARE: pt_SEQ_genes Version 1.0
; SEQ ID NO 1626
;   LENGTH: 394
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```
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-821-234-1626

  Query Match             64.3%;  Score 36;  DB 9;  Length 394;
  Best Local Similarity   100.0%;  Pred. No. 1e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 RHYCY 7
              |||||
Db        356 RHYCY 360


RESULT 44
US-10-511-989-182
; Sequence 182, Application US/10511989
; Publication No. US20060053496A1
; GENERAL INFORMATION:
;  APPLICANT: University of North Carolina-Chapel Hill
;  APPLICANT:  Ting, Jenny
;  APPLICANT:  Linhoff, Michael
;  APPLICANT:  Harton, Johnathan
;  APPLICANT:  Williams, Kristi
;  APPLICANT:  Lich, John
;  APPLICANT:  O'Connor, William
;  APPLICANT:  Moore, Christopher
;  APPLICANT:  Davis, Beckley
;  APPLICANT:  Brickey, W. Jane
;  APPLICANT:  Conti, Brian
;  APPLICANT:  Zhang, Jinghua
;  APPLICANT:  Zhu, Xin-Sheng
;  TITLE OF INVENTION: CATERPILLER GENE FAMILY
;  FILE REFERENCE: 5470.368WO
;  CURRENT APPLICATION NUMBER: US/10/511,989
;  CURRENT FILING DATE:  2004-10-21
;  PRIOR APPLICATION NUMBER: US 60/376,626
;  PRIOR FILING DATE: 2002-04-30
;  NUMBER OF SEQ ID NOS: 186
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 182
;   LENGTH: 532
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-511-989-182

  Query Match             64.3%;  Score 36;  DB 9;  Length 532;
  Best Local Similarity   66.7%;  Pred. No. 1.3e+02;
  Matches    4;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 YRHYCY 7
              ::||||
Db         75 FKHYCY 80


RESULT 45
US-11-053-100-58
; Sequence 58, Application US/11053100
; Publication No. US20050255554A1
; GENERAL INFORMATION:
;  APPLICANT: CHILKOTI, Ashutosh
;  TITLE OF INVENTION: FUSION PEPTIDES ISOLATABLE BY PHASE TRANSITION
;  FILE REFERENCE: 4176-101 CIP
;  CURRENT APPLICATION NUMBER: US/11/053,100
;  CURRENT FILING DATE:  2005-02-08
;  PRIOR APPLICATION NUMBER: US 09/812,382
;  PRIOR FILING DATE: 2001-03-20
;  PRIOR APPLICATION NUMBER: US 60/190,659
;  PRIOR FILING DATE: 2000-03-20
;  NUMBER OF SEQ ID NOS: 58
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 58
;   LENGTH: 864
;   TYPE: PRT
;   ORGANISM: Artificial
;   FEATURE:
;   OTHER INFORMATION: Synthetic Construct
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(864)
;   OTHER INFORMATION: pET15b-SD3-ELP1-90-throm-G protein alpha S
US-11-053-100-58

  Query Match             64.3%;  Score 36;  DB 11;  Length 864;
  Best Local Similarity   100.0%;  Pred. No. 1.9e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 RHYCY 7
              |||||
Db        826 RHYCY 830


RESULT 46
US-10-966-846-2
; Sequence 2, Application US/10966846
; Publication No. US20050287612A1
; GENERAL INFORMATION:
;  APPLICANT: Bertin, John
;  APPLICANT:  Philpott, Dana
;  APPLICANT:  Sansonetti, Philippe
;  APPLICANT:  Girardin, Stephen
;  TITLE OF INVENTION: CARD-4 MOLECULES AND USES THEREOF
;  FILE REFERENCE: 07334-371004
;  CURRENT APPLICATION NUMBER: US/10/966,846
;  CURRENT FILING DATE:  2004-10-15
;  PRIOR APPLICATION NUMBER: US 10/706,857
;  PRIOR FILING DATE: 2003-11-12
;  PRIOR APPLICATION NUMBER: US 10/352,381
;  PRIOR FILING DATE: 2003-01-27
;  PRIOR APPLICATION NUMBER: US 10/154,485
;  PRIOR FILING DATE: 2002-05-22
;  PRIOR APPLICATION NUMBER: US 10/027,881
;  PRIOR FILING DATE: 2001-12-20
;  PRIOR APPLICATION NUMBER: US 60/258,724
;  PRIOR FILING DATE: 2000-12-29
;  NUMBER OF SEQ ID NOS: 3
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 953
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-966-846-2

  Query Match             64.3%;  Score 36;  DB 9;  Length 953;
  Best Local Similarity   66.7%;  Pred. No. 2.1e+02;
  Matches    4;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 YRHYCY 7
              ::||||
Db        255 FKHYCY 260


RESULT 47
US-10-877-346-61
; Sequence 61, Application US/10877346
; Publication No. US20060014153A1
; GENERAL INFORMATION:
;  APPLICANT: Gerlach, Valerie L
;  APPLICANT:  MacDougall, John R
;  APPLICANT:  Smithson, Glennda
;  APPLICANT:  Millet, Isabelle
;  APPLICANT:  Stone, David
;  APPLICANT:  Gunther, Erik
;  APPLICANT:  Ellerman, Karen
;  APPLICANT:  Grosse, William M
;  APPLICANT:  Alsobrook II, John P
;  APPLICANT:  Lepley, Denise M
```

; APPLICANT: Burgess, Catherine E
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Leach, Martin D
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-124
; CURRENT APPLICATION NUMBER: US/10/877,346
; CURRENT FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US/09/964,956
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/235,631
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,633
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,808
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,064
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,065
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,066
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,135
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/237,434
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/238,321
; PRIOR FILING DATE: 2000-10-05
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 61
; LENGTH: 1608
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-877-346-61

Query Match 64.3%; Score 36; DB 9; Length 1608;
Best Local Similarity 100.0%; Pred. No. 3.1e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1086 RHYCY 1090

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; Sequence 60, Application US/10877346
; Publication No. US20060014153A1
; GENERAL INFORMATION:
; APPLICANT: Gerlach, Valerie L
; APPLICANT: MacDougall, John R
; APPLICANT: Smithson, Glennda
; APPLICANT: Millet, Isabelle
; APPLICANT: Stone, David
; APPLICANT: Gunther, Erik
; APPLICANT: Ellerman, Karen
; APPLICANT: Grosse, William M
; APPLICANT: Alsobrook II, John P
; APPLICANT: Lepley, Denise M
; APPLICANT: Burgess, Catherine E
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Leach, Martin D
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-124
; CURRENT APPLICATION NUMBER: US/10/877,346
; CURRENT FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US/09/964,956
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/235,631
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,633
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,808
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,064
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; PRIOR APPLICATION NUMBER: 60/236,066
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,135
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/237,434
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; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 127
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; SEQ ID NO 60
; LENGTH: 1788
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-10-877-346-60

Query Match 64.3%; Score 36; DB 9; Length 1788;
Best Local Similarity 100.0%; Pred. No. 3.4e+02;
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; Sequence 63, Application US/10877346
; Publication No. US20060014153A1
; GENERAL INFORMATION:
; APPLICANT: Gerlach, Valerie L
; APPLICANT: MacDougall, John R
; APPLICANT: Smithson, Glennda
; APPLICANT: Millet, Isabelle
; APPLICANT: Stone, David
; APPLICANT: Gunther, Erik
; APPLICANT: Ellerman, Karen
; APPLICANT: Grosse, William M
; APPLICANT: Alsobrook II, John P
; APPLICANT: Lepley, Denise M
; APPLICANT: Burgess, Catherine E
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Leach, Martin D
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-124
; CURRENT APPLICATION NUMBER: US/10/877,346
; CURRENT FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US/09/964,956
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/235,631
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,633
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,808
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,064
; PRIOR FILING DATE: 2000-09-27

; PRIOR APPLICATION NUMBER: 60/236,065
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,066
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,135
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/237,434
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; PRIOR FILING DATE: 2000-10-05
; Remaining Prior Application data removed - See File Wrapper or PALM.
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; ORGANISM: Homo sapiens
US-10-877-346-63

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; APPLICANT: Gerlach, Valerie L
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; APPLICANT: Smithson, Glennda
; APPLICANT: Millet, Isabelle
; APPLICANT: Stone, David
; APPLICANT: Gunther, Erik
; APPLICANT: Ellerman, Karen
; APPLICANT: Grosse, William M
; APPLICANT: Alsobrook II, John P
; APPLICANT: Lepley, Denise M
; APPLICANT: Burgess, Catherine E
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Leach, Martin D
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-124
; CURRENT APPLICATION NUMBER: US/10/877,346
; CURRENT FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US/09/964,956
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/235,631
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,633
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,808
; PRIOR FILING DATE: 2000-09-27
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; PRIOR APPLICATION NUMBER: 60/236,135
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; PRIOR APPLICATION NUMBER: 60/237,434
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/238,321
; PRIOR FILING DATE: 2000-10-05
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 2811
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-877-346-27

Query Match 64.3%; Score 36; DB 9; Length 2811;
Best Local Similarity 100.0%; Pred. No. 4.8e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 2289 RHYCY 2293

Search completed: May 5, 2006, 08:18:42
Job time : 9.4 secs

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OM protein - protein search, using sw model

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Title: US-08-170-344-71
Perfect score: 57
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Searched: 572060 seqs, 82675679 residues

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 97 | 35.5 | 62.3 | 1452 | 2 | US-08-331-625A-2 | Sequence 2, Appli |
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| 106 | 35 | 61.4 | 301 | 2 | US-09-248-796A-23478 | Sequence 23478, A |
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| 110 | 35 | 61.4 | 380 | 2 | US-09-248-796A-15708 | Sequence 15708, A |
| 111 | 35 | 61.4 | 554 | 2 | US-08-462-467B-22 | Sequence 22, Appl |
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| 484 | 31 | 54.4 | 374 | 2 | US-09-442-349A-84 | Sequence 84, Appl |
| 485 | 31 | 54.4 | 374 | 2 | US-09-442-349A-85 | Sequence 85, Appl |
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| 489 | 31 | 54.4 | 374 | 2 | US-09-442-349A-89 | Sequence 89, Appl |
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| 556 | 31 | 54.4 | 861 | 1 | US-08-764-100-24 | Sequence 24, Appl |
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| 576 | 31 | 54.4 | 1385 | 1 | US-08-687-399-7 | Sequence 7, Appli |
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| 606 | 31 | 54.4 | 2811 | 2 | US-09-964-956-27 | Sequence 27, Appl |
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| 907 | 29 | 50.9 | 42 | 1 | US-08-477-383-24 | Sequence 24, Appl |
| 908 | 29 | 50.9 | 42 | 1 | US-08-487-174-23 | Sequence 23, Appl |
| 909 | 29 | 50.9 | 42 | 1 | US-08-487-174-24 | Sequence 24, Appl |
| 910 | 29 | 50.9 | 42 | 1 | US-08-480-750-23 | Sequence 23, Appl |
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| 912 | 29 | 50.9 | 44 | 1 | US-08-145-708A-9 | Sequence 9, Appli |
| 913 | 29 | 50.9 | 44 | 1 | US-08-331-454-9 | Sequence 9, Appli |
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| 916 | 29 | 50.9 | 51 | 2 | US-09-574-443-8 | Sequence 8, Appli |
| 917 | 29 | 50.9 | 51 | 2 | US-09-574-443-10 | Sequence 10, Appl |
| 918 | 29 | 50.9 | 51 | 2 | US-09-574-443-11 | Sequence 11, Appl |
| 919 | 29 | 50.9 | 53 | 2 | US-09-270-767-60603 | Sequence 60603, A |
| 920 | 29 | 50.9 | 61 | 2 | US-09-134-001C-3836 | Sequence 3836, Ap |
| 921 | 29 | 50.9 | 62 | 2 | US-09-248-796A-26061 | Sequence 26061, A |
| 922 | 29 | 50.9 | 63 | 2 | US-09-107-532A-5706 | Sequence 5706, Ap |
| 923 | 29 | 50.9 | 64 | 2 | US-09-248-796A-22156 | Sequence 22156, A |
| 924 | 29 | 50.9 | 66 | 2 | US-09-270-767-39629 | Sequence 39629, A |
| 925 | 29 | 50.9 | 66 | 2 | US-09-270-767-54846 | Sequence 54846, A |
| 926 | 29 | 50.9 | 67 | 2 | US-09-248-796A-22964 | Sequence 22964, A |
| 927 | 29 | 50.9 | 68 | 2 | US-09-774-639-124 | Sequence 124, App |
| 928 | 29 | 50.9 | 69 | 2 | US-09-134-001C-3315 | Sequence 3315, Ap |
| 929 | 29 | 50.9 | 71 | 2 | US-09-328-352-6974 | Sequence 6974, Ap |
| 930 | 29 | 50.9 | 74 | 2 | US-09-248-796A-23440 | Sequence 23440, A |
| 931 | 29 | 50.9 | 78 | 2 | US-09-513-999C-7549 | Sequence 7549, Ap |
| 932 | 29 | 50.9 | 79 | 2 | US-09-134-000C-5412 | Sequence 5412, Ap |
| 933 | 29 | 50.9 | 83 | 2 | US-09-270-767-43534 | Sequence 43534, A |
| 934 | 29 | 50.9 | 84 | 2 | US-09-270-767-37706 | Sequence 37706, A |
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| 937 | 29 | 50.9 | 94 | 2 | US-09-543-681A-6309 | Sequence 6309, Ap |
| 938 | 29 | 50.9 | 95 | 2 | US-09-270-767-34066 | Sequence 34066, A |
| 939 | 29 | 50.9 | 95 | 2 | US-09-270-767-37290 | Sequence 37290, A |
| 940 | 29 | 50.9 | 95 | 2 | US-09-270-767-49283 | Sequence 49283, A |
| 941 | 29 | 50.9 | 95 | 2 | US-09-270-767-52507 | Sequence 52507, A |
| 942 | 29 | 50.9 | 96 | 2 | US-09-513-999C-5184 | Sequence 5184, Ap |
| 943 | 29 | 50.9 | 100 | 1 | US-08-869-733-1 | Sequence 1, Appli |
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| 946 | 29 | 50.9 | 101 | 2 | US-09-134-000C-4297 | Sequence 4297, Ap |
| 947 | 29 | 50.9 | 102 | 1 | US-08-340-203A-12 | Sequence 12, Appl |
| 948 | 29 | 50.9 | 102 | 1 | US-08-452-427-12 | Sequence 12, Appl |
| 949 | 29 | 50.9 | 102 | 2 | US-09-085-407-12 | Sequence 12, Appl |
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| 951 | 29 | 50.9 | 103 | 2 | US-09-268-202-3 | Sequence 3, Appli |
| 952 | 29 | 50.9 | 103 | 2 | US-09-761-117-3 | Sequence 3, Appli |
| 953 | 29 | 50.9 | 106 | 1 | US-08-553-501A-84 | Sequence 84, Appl |
| 954 | 29 | 50.9 | 106 | 1 | US-08-553-501A-86 | Sequence 86, Appl |
| 955 | 29 | 50.9 | 106 | 1 | US-08-318-157B-19 | Sequence 19, Appl |
| 956 | 29 | 50.9 | 106 | 2 | US-09-205-231-84 | Sequence 84, Appl |
| 957 | 29 | 50.9 | 106 | 2 | US-09-205-231-86 | Sequence 86, Appl |
| 958 | 29 | 50.9 | 106 | 2 | US-09-253-794-19 | Sequence 19, Appl |
| 959 | 29 | 50.9 | 107 | 2 | US-09-240-274-154 | Sequence 154, App |
| 960 | 29 | 50.9 | 107 | 2 | US-09-848-798-154 | Sequence 154, App |
| 961 | 29 | 50.9 | 108 | 2 | US-09-240-274-66 | Sequence 66, Appl |
| 962 | 29 | 50.9 | 108 | 2 | US-09-232-290-3 | Sequence 3, Appli |
| 963 | 29 | 50.9 | 108 | 2 | US-09-848-798-66 | Sequence 66, Appl |
| 964 | 29 | 50.9 | 109 | 2 | US-09-252-991A-27445 | Sequence 27445, A |
| 965 | 29 | 50.9 | 109 | 2 | US-09-107-532A-4585 | Sequence 4585, Ap |
| 966 | 29 | 50.9 | 109 | 2 | US-09-270-767-45111 | Sequence 45111, A |
| 967 | 29 | 50.9 | 110 | 2 | US-10-092-246-14 | Sequence 14, Appl |
| 968 | 29 | 50.9 | 110 | 2 | US-09-248-796A-21822 | Sequence 21822, A |
| 969 | 29 | 50.9 | 110 | 2 | US-10-096-246A-14 | Sequence 14, Appl |
| 970 | 29 | 50.9 | 111 | 2 | US-09-513-999C-7579 | Sequence 7579, Ap |
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| 972 | 29 | 50.9 | 117 | 2 | US-09-840-459-83 | Sequence 83, Appl |
| 973 | 29 | 50.9 | 117 | 2 | US-09-497-625A-83 | Sequence 83, Appl |
| 974 | 29 | 50.9 | 117 | 2 | US-09-798-689-7 | Sequence 7, Appli |
| 975 | 29 | 50.9 | 117 | 2 | US-10-148-737A-4 | Sequence 4, Appli |
| 976 | 29 | 50.9 | 118 | 2 | US-10-200-012-33 | Sequence 33, Appl |

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| 977 | 29 | 50.9 | 120 | 2 | US-10-092-246-9 | Sequence 9, Appli |
| 978 | 29 | 50.9 | 124 | 2 | US-09-270-767-40657 | Sequence 40657, A |
| 979 | 29 | 50.9 | 124 | 2 | US-09-270-767-55873 | Sequence 55873, A |
| 980 | 29 | 50.9 | 125 | 1 | US-08-553-501A-55 | Sequence 55, Appl |
| 981 | 29 | 50.9 | 125 | 1 | US-08-553-501A-57 | Sequence 57, Appl |
| 982 | 29 | 50.9 | 125 | 2 | US-09-205-231-55 | Sequence 55, Appl |
| 983 | 29 | 50.9 | 125 | 2 | US-09-205-231-57 | Sequence 57, Appl |
| 984 | 29 | 50.9 | 125 | 2 | US-09-248-796A-18063 | Sequence 18063, A |
| 985 | 29 | 50.9 | 126 | 1 | US-08-553-501A-27 | Sequence 27, Appl |
| 986 | 29 | 50.9 | 126 | 2 | US-09-205-231-27 | Sequence 27, Appl |
| 987 | 29 | 50.9 | 126 | 2 | US-09-270-767-43094 | Sequence 43094, A |
| 988 | 29 | 50.9 | 135 | 1 | US-08-383-621-5 | Sequence 5, Appli |
| 989 | 29 | 50.9 | 135 | 2 | US-08-459-906-5 | Sequence 5, Appli |
| 990 | 29 | 50.9 | 135 | 6 | 5219996-19 | Patent No. 5219996 |
| 991 | 29 | 50.9 | 140 | 2 | US-09-270-767-45484 | Sequence 45484, A |
| 992 | 29 | 50.9 | 157 | 2 | US-09-328-352-5371 | Sequence 5371, Ap |
| 993 | 29 | 50.9 | 158 | 1 | US-08-247-904B-10 | Sequence 10, Appl |
| 994 | 29 | 50.9 | 158 | 2 | US-08-767-942A-19 | Sequence 19, Appl |
| 995 | 29 | 50.9 | 162 | 2 | US-09-270-767-37443 | Sequence 37443, A |
| 996 | 29 | 50.9 | 162 | 2 | US-09-270-767-52660 | Sequence 52660, A |
| 997 | 29 | 50.9 | 167 | 2 | US-09-198-452A-707 | Sequence 707, App |
| 998 | 29 | 50.9 | 167 | 2 | US-09-270-767-35956 | Sequence 35956, A |
| 999 | 29 | 50.9 | 167 | 2 | US-09-270-767-51173 | Sequence 51173, A |
| 1000 | 29 | 50.9 | 177 | 2 | US-09-270-767-35762 | Sequence 35762, A |

ALIGNMENTS

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RESULT 1
US-08-159-339A-1171
; Sequence 1171, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  1171:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  11 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-1171

  Query Match           100.0%;  Score 57;  DB 2;  Length 11;
  Best Local Similarity  100.0%;  Pred. No. 0.0025;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
              |||||||||
Db          1 HYCYSLYGT 9


RESULT 2
US-08-934-915-44
; Sequence 44, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  44:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-44

  Query Match           100.0%;  Score 57;  DB 1;  Length 20;
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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
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Db          9 HYCYSLYGT 17
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RESULT 3
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; Sequence 163, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  163:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-163

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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db          9 HYCYSLYGT 17


RESULT 4
US-09-980-523A-8
; Sequence 8, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
;   LENGTH: 29
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-8

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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db          6 HYCYSLYGT 14


RESULT 5
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
;  APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
;  TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 FC
;  TITLE OF INVENTION:  TRANSCRIPTIONAL REGULATION
;  FILE REFERENCE: N73477C GCW
;  CURRENT APPLICATION NUMBER: US/09/701,080C
;  CURRENT FILING DATE:  2001-02-27
;  PRIOR APPLICATION NUMBER: GB 9811303.8
;  PRIOR FILING DATE: 1998-05-26
;  PRIOR APPLICATION NUMBER: GB 9900157.0
;  PRIOR FILING DATE: 1999-01-05
;  NUMBER OF SEQ ID NOS: 36
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-09-701-080C-18

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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
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Db         78 HYCYSLYGT 86


RESULT 6
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
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;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-2

  Query Match             100.0%;  Score 57;  DB 2;  Length 158;
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Qy          1 HYCYSLYGT 9
              |||||||||
Db         85 HYCYSLYGT 93


RESULT 7
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; Sequence 3, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-3

  Query Match             100.0%;  Score 57;  DB 1;  Length 162;
  Best Local Similarity   100.0%;  Pred. No. 0.04;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
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Db         85 HYCYSLYGT 93


RESULT 8
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

  Query Match             100.0%;  Score 57;  DB 2;  Length 172;
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Db         23 HYCYSLYGT 31


RESULT 9
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

  Query Match             100.0%;  Score 57;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.043;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
              |||||||||
Db        154 HYCYSLYGT 162


RESULT 10
US-09-359-382-12
```

; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-12

Query Match 100.0%; Score 57; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.043;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||| 
Db 23 HYCYSLYGT 31

RESULT 11
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-14

Query Match 100.0%; Score 57; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.043;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||| 
Db 154 HYCYSLYGT 162

RESULT 12
US-08-117-083-10
; Sequence 10, Application US/08117083
; Patent No. 5719054
; GENERAL INFORMATION:
; APPLICANT: Boursnell, Michael E.
; APPLICANT: Inglis, Stephen C.
; APPLICANT: Munro, Alan J.
; TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
; TITLE OF INVENTION: Papilloma Virus Proteins
; NUMBER OF SEQUENCES: 70
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Walter H. Dreger
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/117,083
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Dreger, Walter H.
; REGISTRATION NUMBER: 24,190
; REFERENCE/DOCKET NUMBER: A-58783
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-781-1989
; TELEFAX: 415-398-3249
; TELEX: 910 277299
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 182 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..182
; OTHER INFORMATION: /note= "Xaa refers to stop codon in
; OTHER INFORMATION: the open reading frame."
US-08-117-083-10

Query Match 100.0%; Score 57; DB 1; Length 182;
Best Local Similarity 100.0%; Pred. No. 0.045;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||| 
Db 66 HYCYSLYGT 74

RESULT 13
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOUL, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/09/462,993
; CURRENT FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23

; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Derivated from
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
; OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

Query Match 100.0%; Score 57; DB 2; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.061;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||||
Db 113 HYCYSLYGT 121

RESULT 14
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

Query Match 100.0%; Score 57; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.067;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||||
Db 85 HYCYSLYGT 93

RESULT 15
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match 100.0%; Score 57; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.067;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||||
Db 85 HYCYSLYGT 93

RESULT 16
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 57; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.067;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||||
Db 85 HYCYSLYGT 93

RESULT 17
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273

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;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-4

  Query Match             100.0%;  Score 57;  DB 2;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 0.069;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
              |||||||||
Db        191 HYCYSLYGT 199


RESULT 18
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-10

  Query Match             100.0%;  Score 57;  DB 2;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.074;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
              |||||||||
Db        210 HYCYSLYGT 218


RESULT 19
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-6

  Query Match             100.0%;  Score 57;  DB 2;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 0.095;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
              |||||||||
Db        191 HYCYSLYGT 199


RESULT 20
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-14

  Query Match             100.0%;  Score 57;  DB 2;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 0.1;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
              |||||||||
Db        210 HYCYSLYGT 218


RESULT 21
US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
```

```
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-4

  Query Match             94.7%;  Score 54;  DB 1;  Length 162;
  Best Local Similarity   88.9%;  Pred. No. 0.13;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
              |||||:|||
Db         85 HYCYSVYGT 93


RESULT 22
US-08-159-339A-251
; Sequence 251, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  251:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-251

  Query Match             84.2%;  Score 48;  DB 2;  Length 9;
  Best Local Similarity   88.9%;  Pred. No. 4.6e+05;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
              || ||||||
Db          1 HYAYSLYGT 9


RESULT 23
US-08-159-339A-235
; Sequence 235, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  235:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-235

  Query Match             75.4%;  Score 43;  DB 2;  Length 9;
  Best Local Similarity   87.5%;  Pred. No. 4.6e+05;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYG 8
              || |||||
Db          2 HYAYSLYG 9
```

```
RESULT 24
US-08-159-339A-563
; Sequence 563, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  563:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-563

  Query Match             73.7%;  Score 42;  DB 2;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 4.6e+05;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 CYSLYGT 9
              |||||||
Db          1 CYSLYGT 7


RESULT 25
US-09-248-796A-21392
; Sequence 21392, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 21392
;   LENGTH: 99
;   TYPE: PRT
;   ORGANISM: Candida albicans
US-09-248-796A-21392

  Query Match             73.7%;  Score 42;  DB 2;  Length 99;
  Best Local Similarity   85.7%;  Pred. No. 7;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLY 7
              |||:|||
Db          7 HYCFSLY 13


RESULT 26
US-09-107-532A-6191
; Sequence 6191, Application US/09107532A
; Patent No. 6583275
;   GENERAL INFORMATION:
;        APPLICANT: Lynn A Doucette-Stamm  and David Bush
;        TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;                            ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
;        NUMBER OF SEQUENCES: 7310
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;             STREET: 100 Beaver Street
;             CITY: Waltham
;             STATE: Massachusetts
;             COUNTRY: USA
;             ZIP: 02354
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: CD/ROM ISO9660
;             COMPUTER: PC
;             OPERATING SYSTEM: <Unknown>
;             SOFTWARE: ASCII
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/107,532A
;             FILING DATE: 30-Jun-1998
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 60/085,598
;             FILING DATE: 14 May 1998
;             APPLICATION NUMBER: 60/051571
;             FILING DATE: July 2, 1997
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Ariniello, Pamela Deneke
;             REGISTRATION NUMBER: 40,489
;             REFERENCE/DOCKET NUMBER: GTC-012
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (781)893-5007
;             TELEFAX: (781)893-8277
;   INFORMATION FOR SEQ ID NO: 6191:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 115 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        HYPOTHETICAL: YES
;        ORIGINAL SOURCE:
;             ORGANISM: Enterococcus faecium
;        FEATURE:
;             NAME/KEY:  misc_feature
;             LOCATION: (B) LOCATION 1...115
;        SEQUENCE DESCRIPTION: SEQ ID NO: 6191:
US-09-107-532A-6191

  Query Match             71.9%;  Score 41;  DB 2;  Length 115;
```

```
  Best Local Similarity   66.7%;  Pred. No. 12;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
              | || |||:
Db         86 HVCYDLYGS 94


RESULT 27
US-09-270-767-45501
; Sequence 45501, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 45501
;   LENGTH: 457
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-45501

  Query Match             70.2%;  Score 40;  DB 2;  Length 457;
  Best Local Similarity   77.8%;  Pred. No. 73;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
              | ||||| |
Db        421 HVCYSLYFT 429


RESULT 28
US-09-248-796A-24718
; Sequence 24718, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
;  APPLICANT: Keith Weinstock et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 107196.132
;  CURRENT APPLICATION NUMBER: US/09/248,796A
;  CURRENT FILING DATE:  1999-02-12
;  PRIOR APPLICATION NUMBER: US 60/074,725
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: US 60/096,409
;  PRIOR FILING DATE: 1998-08-13
;  NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 24718
;   LENGTH: 63
;   TYPE: PRT
;   ORGANISM: Candida albicans
US-09-248-796A-24718

  Query Match             68.4%;  Score 39;  DB 2;  Length 63;
  Best Local Similarity   100.0%;  Pred. No. 14;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSL 6
              ||||||
Db         18 HYCYSL 23


RESULT 29
US-09-409-604-2
; Sequence 2, Application US/09409604A
; Patent No. 6632934
; GENERAL INFORMATION:
;  APPLICANT:  Moreadith, Randall W.
;  APPLICANT:  Zinn, Andrew R.
;  APPLICANT:  Watson, Mark L.
;  APPLICANT:  Inoue, No. 6632934imitsu
;  APPLICANT:  Hess, Karl D.
;  APPLICANT:  Albright, George M.
;  TITLE OF INVENTION:  MORC GENE COMPOSITIONS AND METHODS OF USE
;  FILE REFERENCE:  UTSD:573
;  CURRENT APPLICATION NUMBER: US/09/409,604A
;  CURRENT FILING DATE:  1999-09-30
;  NUMBER OF SEQ ID NOS:  18
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 950
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-09-409-604-2

  Query Match             66.7%;  Score 38;  DB 2;  Length 950;
  Best Local Similarity   85.7%;  Pred. No. 3.3e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HYCYSLY 7
              | |||||
Db        262 HLCYSLY 268


RESULT 30
US-08-936-135-4
; Sequence 4, Application US/08936135
; Patent No. 6054293
;  GENERAL INFORMATION:
;    APPLICANT:  Tessier-Lavigne, Marc
;    APPLICANT:  He, Zhigang
;    APPLICANT:  Chen, Hang
;    TITLE OF INVENTION:  Semaphorin Receptors
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  SCIENCE & TECHNOLOGY LAW GROUP
;      STREET:  75 DENISE DRIVE
;      CITY:  HILLSBOROUGH
;      STATE:  CALIFORNIA
;      COUNTRY:  USA
;      ZIP:  94010
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/936,135
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  OSMAN, RICHARD A
;      REGISTRATION NUMBER:  36,627
;      REFERENCE/DOCKET NUMBER:  UC97-288-2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (650) 343-4341
;      TELEFAX:  (650) 343-4342
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2584 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-936-135-4

  Query Match             66.7%;  Score 38;  DB 2;  Length 2584;
  Best Local Similarity   100.0%;  Pred. No. 9.2e+02;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 YCYSLY 7
              ||||||
```

```
Db       1179 YCYSLY 1184


RESULT 31
US-08-936-135-2
; Sequence 2, Application US/08936135
; Patent No. 6054293
;  GENERAL INFORMATION:
;    APPLICANT:  Tessier-Lavigne, Marc
;    APPLICANT:  He, Zhigang
;    APPLICANT:  Chen, Hang
;    TITLE OF INVENTION:  Semaphorin Receptors
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  SCIENCE & TECHNOLOGY LAW GROUP
;      STREET:  75 DENISE DRIVE
;      CITY:  HILLSBOROUGH
;      STATE:  CALIFORNIA
;      COUNTRY:  USA
;      ZIP:  94010
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/936,135
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  OSMAN, RICHARD A
;      REGISTRATION NUMBER:  36,627
;      REFERENCE/DOCKET NUMBER:  UC97-288-2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (650) 343-4341
;      TELEFAX:  (650) 343-4342
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2588 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-936-135-2

  Query Match             66.7%;  Score 38;  DB 2;  Length 2588;
  Best Local Similarity   100.0%;  Pred. No. 9.2e+02;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 YCYSLY 7
              ||||||
Db       1181 YCYSLY 1186


RESULT 32
US-09-893-737-324
; Sequence 324, Application US/09893737
; Patent No. 6822082
; GENERAL INFORMATION:
;  APPLICANT: Sheppard, Paul O.
;  APPLICANT:  Presnell, Scott R.
;  TITLE OF INVENTION: MAMMALIAN SECRETED PROTEINS
;  FILE REFERENCE: 00-41
;  CURRENT APPLICATION NUMBER: US/09/893,737
;  CURRENT FILING DATE:  2001-06-28
;  PRIOR APPLICATION NUMBER: US 60/215,446
;  PRIOR FILING DATE: 2000-06-30
;  NUMBER OF SEQ ID NOS: 329
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 324
;   LENGTH: 295
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-893-737-324

  Query Match             64.9%;  Score 37;  DB 2;  Length 295;
  Best Local Similarity   71.4%;  Pred. No. 1.4e+02;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 YCYSLYG 8
              ||:|:||
Db         81 YCWSMYG 87


RESULT 33
US-09-460-295B-13
; Sequence 13, Application US/09460295B
; Patent No. 6710030
; GENERAL INFORMATION:
;  APPLICANT: UNIVERSITY OF SOUTHERN CALIFORNIA
;  TITLE OF INVENTION: CONTORTROSTATIN (CN) AND METHODS FOR ITS USE IN PREVENTING METASTA
;  TITLE OF INVENTION:  OTHER CONDITIONS
;  FILE REFERENCE: 1279-338C3/09801388
;  CURRENT APPLICATION NUMBER: US/09/460,295B
;  CURRENT FILING DATE:  1999-12-10
;  PRIOR APPLICATION NUMBER: US 09/163,047
;  PRIOR FILING DATE: 1998-09-29
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
;   LENGTH: 571
;   TYPE: PRT
;   ORGANISM: Bothrops jararaca
US-09-460-295B-13

  Query Match             64.9%;  Score 37;  DB 2;  Length 571;
  Best Local Similarity   62.5%;  Pred. No. 2.8e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYG 8
              | ||:|:|
Db        470 HQCYALFG 477


RESULT 34
US-09-949-016-11688
; Sequence 11688, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11688
;   LENGTH: 1380
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-11688

  Query Match             64.9%;  Score 37;  DB 2;  Length 1380;
  Best Local Similarity   71.4%;  Pred. No. 7e+02;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLY 7
              |||:||:
Db .      602 HYCHSLF 608
```

```
RESULT 35
US-09-755-100A-12
; Sequence 12, Application US/09755100A
; Patent No. 6740516
; GENERAL INFORMATION:
;  APPLICANT: K. SAVITZKY et al.
;  TITLE OF INVENTION: NOVEL NUCLEIC ACID AND AMINO ACID SEQUENCES
;  FILE REFERENCE: 2786-0156P
;  CURRENT APPLICATION NUMBER: US/09/755,100A
;  CURRENT FILING DATE:  2001-01-08
;  NUMBER OF SEQ ID NOS: 16
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 12
;   LENGTH: 141
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-755-100A-12

  Query Match             63.2%;  Score 36;  DB 2;  Length 141;
  Best Local Similarity   75.0%;  Pred. No. 98;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYG 8
              | | ||||
Db        102 HLCVSLYG 109


RESULT 36
US-09-949-016-5911
; Sequence 5911, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5911
;   LENGTH: 493
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-5911

  Query Match             63.2%;  Score 36;  DB 2;  Length 493;
  Best Local Similarity   75.0%;  Pred. No. 3.6e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYG 8
              |||||  |
Db        228 HYCYSRGG 235


RESULT 37
US-09-949-016-7409
; Sequence 7409, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7409
;   LENGTH: 499
;   TYPE: PRT
;   ORGANISM: Human
US-09-949-016-7409

  Query Match             63.2%;  Score 36;  DB 2;  Length 499;
  Best Local Similarity   75.0%;  Pred. No. 3.6e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYG 8
              |||||  |
Db        234 HYCYSRGG 241


RESULT 38
US-09-460-295B-12
; Sequence 12, Application US/09460295B
; Patent No. 6710030
; GENERAL INFORMATION:
;  APPLICANT: UNIVERSITY OF SOUTHERN CALIFORNIA
;  TITLE OF INVENTION: CONTORTROSTATIN (CN) AND METHODS FOR ITS USE IN PREVENTING METASTA
;  TITLE OF INVENTION:  OTHER CONDITIONS
;  FILE REFERENCE: 1279-338C3/09801388
;  CURRENT APPLICATION NUMBER: US/09/460,295B
;  CURRENT FILING DATE:  1999-12-10
;  PRIOR APPLICATION NUMBER: US 09/163,047
;  PRIOR FILING DATE: 1998-09-29
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 12
;   LENGTH: 606
;   TYPE: PRT
;   ORGANISM: Crotalus atrox
US-09-460-295B-12

  Query Match             63.2%;  Score 36;  DB 2;  Length 606;
  Best Local Similarity   62.5%;  Pred. No. 4.4e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYG 8
              | || |:|
Db        506 HQCYDLFG 513


RESULT 39
US-10-104-047-2944
; Sequence 2944, Application US/10104047
; Patent No. 6943241
; GENERAL INFORMATION:
;  APPLICANT: HELIX RESEARCH INSTITUTE
;  TITLE OF INVENTION: No. 6943241el full length cDNA
;  FILE REFERENCE: H1-A0105
;  CURRENT APPLICATION NUMBER: US/10/104,047
;  CURRENT FILING DATE:  2002-03-25
;  PRIOR APPLICATION NUMBER:
;  PRIOR FILING DATE:
;  NUMBER OF SEQ ID NOS: 4096
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2944
;   LENGTH: 786
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-104-047-2944
```

Query Match 63.2%; Score 36; DB 2; Length 786;
Best Local Similarity 71.4%; Pred. No. 5.8e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 HYCYSLY 7
              |:|| ||
Db        645 HFCYLLY 651
```

RESULT 40
US-09-949-016-7922
; Sequence 7922, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7922
; LENGTH: 802
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-7922

Query Match 63.2%; Score 36; DB 2; Length 802;
Best Local Similarity 71.4%; Pred. No. 5.9e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 HYCYSLY 7
              |:|| ||
Db        558 HFCYLLY 564
```

RESULT 41
US-09-754-250-4
; Sequence 4, Application US/09754250
; Patent No. 6376225
; GENERAL INFORMATION:
; APPLICANT: WEI, Ming-Hui et al
; TITLE OF INVENTION: ISOLATED HUMAN PHOSPHODIESTERASE
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN
; TITLE OF INVENTION: PHOSPHODIESTERASE PROTEINS, AND USES THEREOF
; FILE REFERENCE: CL001063
; CURRENT APPLICATION NUMBER: US/09/754,250
; CURRENT FILING DATE: 2001-01-05
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Human
US-09-754-250-4

Query Match 63.2%; Score 36; DB 2; Length 905;
Best Local Similarity 71.4%; Pred. No. 6.7e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 HYCYSLY 7
              |:|| ||
Db        630 HFCYLLY 636
```

RESULT 42
US-10-094-989-4
; Sequence 4, Application US/10094989
; Patent No. 6867029
; GENERAL INFORMATION:
; APPLICANT: WEI, Ming-Hui et al
; TITLE OF INVENTION: ISOLATED HUMAN PHOSPHODIESTERASE
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN
; TITLE OF INVENTION: PHOSPHODIESTERASE PROTEINS, AND USES THEREOF
; FILE REFERENCE: CL001063DIV
; CURRENT APPLICATION NUMBER: US/10/094,989
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 09/754,250
; PRIOR FILING DATE: 2001-01-05
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-094-989-4

Query Match 63.2%; Score 36; DB 2; Length 905;
Best Local Similarity 71.4%; Pred. No. 6.7e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 HYCYSLY 7
              |:|| ||
Db        630 HFCYLLY 636
```

RESULT 43
US-09-754-250-2
; Sequence 2, Application US/09754250
; Patent No. 6376225
; GENERAL INFORMATION:
; APPLICANT: WEI, Ming-Hui et al
; TITLE OF INVENTION: ISOLATED HUMAN PHOSPHODIESTERASE
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN
; TITLE OF INVENTION: PHOSPHODIESTERASE PROTEINS, AND USES THEREOF
; FILE REFERENCE: CL001063
; CURRENT APPLICATION NUMBER: US/09/754,250
; CURRENT FILING DATE: 2001-01-05
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 920
; TYPE: PRT
; ORGANISM: Human
US-09-754-250-2

Query Match 63.2%; Score 36; DB 2; Length 920;
Best Local Similarity 71.4%; Pred. No. 6.8e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

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Qy          1 HYCYSLY 7
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Db        645 HFCYLLY 651
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RESULT 44
US-10-094-989-2
; Sequence 2, Application US/10094989
; Patent No. 6867029
; GENERAL INFORMATION:
; APPLICANT: WEI, Ming-Hui et al
; TITLE OF INVENTION: ISOLATED HUMAN PHOSPHODIESTERASE
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN
; TITLE OF INVENTION: PHOSPHODIESTERASE PROTEINS, AND USES THEREOF
; FILE REFERENCE: CL001063DIV
; CURRENT APPLICATION NUMBER: US/10/094,989
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 09/754,250

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;  PRIOR FILING DATE: 2001-01-05
;  NUMBER OF SEQ ID NOS: 5
;  SOFTWARE: PastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 920
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-094-989-2

  Query Match            63.2%;  Score 36;  DB 2;  Length 920;
  Best Local Similarity  71.4%;  Pred. No. 6.8e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HYCYSLY 7
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Db        645 HFCYLLY 651


RESULT 45
US-07-872-644-39
; Sequence 39, Application US/07872644
; Patent No. 5389527
;  GENERAL INFORMATION:
;    APPLICANT:  Beavo, Joseph A.
;    APPLICANT:  Bentley, Kelley
;    APPLICANT:  Charbonneau, Harry
;    APPLICANT:  Sonnenburg, William K.
;    TITLE OF INVENTION:  DNA Encoding Mammalian
;    TITLE OF INVENTION:  Phosphodiesterases
;    NUMBER OF SEQUENCES:  58
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray &
;      ADDRESSEE:  Bicknell
;      STREET:  Two First National Plaza, 20 South Clark
;      STREET:  Street
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  USA
;      ZIP:  60603
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/872,644
;      FILING DATE:  19920420
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/688,356
;      FILING DATE:  04-APR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  No. 5389527and, Greta E.
;      REGISTRATION NUMBER:  35,302
;      REFERENCE/DOCKET NUMBER:  27866/30822
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (312) 346-5750
;      TELEFAX:  (312) 984-9740
;      TELEX:  25-3856
;  INFORMATION FOR SEQ ID NO:  39:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  921 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-07-872-644-39

  Query Match            63.2%;  Score 36;  DB 1;  Length 921;
  Best Local Similarity  71.4%;  Pred. No. 6.8e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HYCYSLY 7
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Db        646 HFCYLLY 652


RESULT 46
US-08-297-494-39
; Sequence 39, Application US/08297494
; Patent No. 5580771
;  GENERAL INFORMATION:
;    APPLICANT:  Beavo, Joseph A.
;    APPLICANT:  Bentley, Kelley
;    APPLICANT:  Charbonneau, Harry
;    APPLICANT:  Sonnenburg, William K.
;    TITLE OF INVENTION:  DNA Encoding Mammalian
;    TITLE OF INVENTION:  Phosphodiesterases
;    NUMBER OF SEQUENCES:  58
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray &
;      ADDRESSEE:  Bicknell
;      STREET:  Two First National Plaza, 20 South Clark
;      STREET:  Street
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  USA
;      ZIP:  60603
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/297,494
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/688,356
;      FILING DATE:  04-APR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  No. 5580771and, Greta E.
;      REGISTRATION NUMBER:  35,302
;      REFERENCE/DOCKET NUMBER:  27866/30822
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (312) 346-5750
;      TELEFAX:  (312) 984-9740
;      TELEX:  25-3856
;  INFORMATION FOR SEQ ID NO:  39:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  921 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-297-494-39

  Query Match            63.2%;  Score 36;  DB 1;  Length 921;
  Best Local Similarity  71.4%;  Pred. No. 6.8e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HYCYSLY 7
              |:|| ||
Db        646 HFCYLLY 652


RESULT 47
US-08-297-510-39
; Sequence 39, Application US/08297510
; Patent No. 5602019
;  GENERAL INFORMATION:
;    APPLICANT:  Beavo, Joseph A.
;    APPLICANT:  Bentley, Kelley
;    APPLICANT:  Charbonneau, Harry
;    APPLICANT:  Sonnenburg, William K.
;    TITLE OF INVENTION:  DNA Encoding Mammalian
;    TITLE OF INVENTION:  Phosphodiesterases
;    NUMBER OF SEQUENCES:  58
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;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray &
;      ADDRESSEE:  Bicknell
;      STREET:  Two First National Plaza, 20 South Clark
;      STREET:  Street
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  USA
;      ZIP:  60603
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/297,510
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/688,356
;      FILING DATE:  04-APR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  No. 5602019and, Greta E.
;      REGISTRATION NUMBER:  35,302
;      REFERENCE/DOCKET NUMBER:  27866/30822
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (312) 346-5750
;      TELEFAX:  (312) 984-9740
;      TELEX:  25-3856
;  INFORMATION FOR SEQ ID NO:  39:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  921 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-297-510-39

  Query Match             63.2%;  Score 36;  DB 1;  Length 921;
  Best Local Similarity   71.4%;  Pred. No. 6.8e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HYCYSLY 7
              |:|| ||
Db        646 HFCYLLY 652


RESULT 48
US-08-479-532-39
; Sequence 39, Application US/08479532
; Patent No. 5776752
;  GENERAL INFORMATION:
;    APPLICANT:  Beavo, Joseph A.
;    APPLICANT:  Bentley, Kelley
;    APPLICANT:  Charbonneau, Harry
;    APPLICANT:  Sonnenburg, William K.
;    TITLE OF INVENTION:  DNA Encoding Mammalian
;    TITLE OF INVENTION:  Phosphodiesterases
;    NUMBER OF SEQUENCES:  58
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray &
;      ADDRESSEE:  Bicknell
;      STREET:  Two First National Plaza, 20 South Clark
;      STREET:  Street
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  USA
;      ZIP:  60603
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/479,532
;      FILING DATE:  07-JUN-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/297,494
;      FILING DATE:
;      APPLICATION NUMBER:  US 07/688,356
;      FILING DATE:  04-APR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  No. 5776752and, Greta E.
;      REGISTRATION NUMBER:  35,302
;      REFERENCE/DOCKET NUMBER:  27866/30822
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (312) 346-5750
;      TELEFAX:  (312) 984-9740
;      TELEX:  25-3856
;  INFORMATION FOR SEQ ID NO:  39:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  921 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-479-532-39

  Query Match             63.2%;  Score 36;  DB 1;  Length 921;
  Best Local Similarity   71.4%;  Pred. No. 6.8e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HYCYSLY 7
              |:|| ||
Db        646 HFCYLLY 652


RESULT 49
US-08-455-526-39
; Sequence 39, Application US/08455526
; Patent No. 5789553
;  GENERAL INFORMATION:
;    APPLICANT:  Beavo, Joseph A.
;    APPLICANT:  Bentley, Kelley
;    APPLICANT:  Charbonneau, Harry
;    APPLICANT:  Sonnenburg, William K.
;    TITLE OF INVENTION:  DNA Encoding Mammalian
;    TITLE OF INVENTION:  Phosphodiesterases
;    NUMBER OF SEQUENCES:  58
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray &
;      ADDRESSEE:  Bicknell
;      STREET:  Two First National Plaza, 20 South Clark
;      STREET:  Street
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  USA
;      ZIP:  60603
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/455,526
;      FILING DATE:  31-MAY-1995
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/297,494
;      FILING DATE:  29-AUG-1994
;      APPLICATION NUMBER:  US 07/688,356
;      FILING DATE:  04-APR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  No. 5789553and, Greta E.
;      REGISTRATION NUMBER:  35,302
;      REFERENCE/DOCKET NUMBER:  27866/30822
;    TELECOMMUNICATION INFORMATION:
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;       TELEPHONE:  (312) 346-5750
;       TELEFAX:  (312) 984-9740
;       TELEX:  25-3856
;   INFORMATION FOR SEQ ID NO:  39:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  921 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-08-455-526-39

  Query Match             63.2%;  Score 36;  DB 1;  Length 921;
  Best Local Similarity   71.4%;  Pred. No. 6.8e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HYCYSLY 7
              |:|| ||
Db        646 HFCYLLY 652


RESULT 50
US-08-455-525-39
; Sequence 39, Application US/08455525
; Patent No. 5800987
;  GENERAL INFORMATION:
;     APPLICANT:  Beavo, Joseph A.
;     APPLICANT:  Bentley, Kelley
;     APPLICANT:  Charbonneau, Harry
;     APPLICANT:  Sonnenburg, William K.
;     TITLE OF INVENTION:  DNA Encoding Mammalian
;     TITLE OF INVENTION:  Phosphodiesterases
;     NUMBER OF SEQUENCES:  58
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray &
;       ADDRESSEE:  Bicknell
;       STREET:  Two First National Plaza, 20 South Clark
;       STREET:  Street
;       CITY:  Chicago
;       STATE:  Illinois
;       COUNTRY:  USA
;       ZIP:  60603
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/455,525
;       FILING DATE:  31-MAY-1995
;       CLASSIFICATION:  435
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  08/297,494
;       FILING DATE:
;       APPLICATION NUMBER:  US 07/688,356
;       FILING DATE:  04-APR-1991
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  No. 5800987and, Greta E.
;       REGISTRATION NUMBER:  35,302
;       REFERENCE/DOCKET NUMBER:  27866/30822
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (312) 346-5750
;       TELEFAX:  (312) 984-9740
;       TELEX:  25-3856
;   INFORMATION FOR SEQ ID NO:  39:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  921 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-08-455-525-39

  Query Match             63.2%;  Score 36;  DB 1;  Length 921;
  Best Local Similarity   71.4%;  Pred. No. 6.8e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HYCYSLY 7
              |:|| ||
Db        646 HFCYLLY 652


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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:10:32 ; Search time 68.2 Seconds
(without alignments)
55.139 Million cell updates/sec

Title: US-08-170-344-71
Perfect score: 57
Sequence: 1 HYCYSLYGT 9

Scoring table: BLOSUM62
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Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_Main:*
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 2 | 57 | 100.0 | 10 | 5 | US-10-751-845-91 | Sequence 91, Appl |
| 3 | 57 | 100.0 | 15 | 4 | US-10-476-570-33 | Sequence 33, Appl |
| 4 | 57 | 100.0 | 15 | 4 | US-10-476-570-34 | Sequence 34, Appl |
| 5 | 57 | 100.0 | 20 | 4 | US-10-476-570-12 | Sequence 12, Appl |
| 6 | 57 | 100.0 | 23 | 5 | US-10-751-845-66 | Sequence 66, Appl |
| 7 | 57 | 100.0 | 29 | 4 | US-10-476-570-55 | Sequence 55, Appl |
| 8 | 57 | 100.0 | 29 | 5 | US-10-858-384-8 | Sequence 8, Appli |
| 9 | 57 | 100.0 | 117 | 5 | US-10-751-845-126 | Sequence 126, App |
| 10 | 57 | 100.0 | 158 | 5 | US-10-858-384-2 | Sequence 2, Appli |
| 11 | 57 | 100.0 | 158 | 5 | US-10-367-057-16 | Sequence 16, Appl |
| 12 | 57 | 100.0 | 158 | 6 | US-11-021-949-13 | Sequence 13, Appl |
| 13 | 57 | 100.0 | 171 | 4 | US-10-472-724-2 | Sequence 2, Appli |
| 14 | 57 | 100.0 | 236 | 5 | US-10-751-845-157 | Sequence 157, App |
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| 16 | 57 | 100.0 | 243 | 6 | US-11-072-288-1 | Sequence 1, Appli |
| 17 | 57 | 100.0 | 261 | 5 | US-10-751-845-160 | Sequence 160, App |
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| 19 | 57 | 100.0 | 273 | 4 | US-10-000-903-4 | Sequence 4, Appli |
| 20 | 57 | 100.0 | 273 | 5 | US-10-899-771-4 | Sequence 4, Appli |
| 21 | 57 | 100.0 | 292 | 4 | US-10-000-903-10 | Sequence 10, Appl |
| 22 | 57 | 100.0 | 292 | 5 | US-10-899-771-10 | Sequence 10, Appl |
| 23 | 57 | 100.0 | 371 | 4 | US-10-000-903-6 | Sequence 6, Appli |
| 24 | 57 | 100.0 | 371 | 5 | US-10-899-771-6 | Sequence 6, Appli |
| 25 | 57 | 100.0 | 390 | 4 | US-10-000-903-14 | Sequence 14, Appl |
| 26 | 57 | 100.0 | 390 | 5 | US-10-899-771-14 | Sequence 14, Appl |
| 27 | 54 | 94.7 | 151 | 4 | US-10-177-390-6 | Sequence 6, Appli |
| 28 | 54 | 94.7 | 151 | 5 | US-10-484-063-20 | Sequence 20, Appl |
| 29 | 54 | 94.7 | 151 | 5 | US-10-484-063-27 | Sequence 27, Appl |
| 30 | 52 | 91.2 | 15 | 4 | US-10-476-570-32 | Sequence 32, Appl |
| 31 | 47 | 82.5 | 10 | 5 | US-10-751-845-79 | Sequence 79, Appl |
| 32 | 46 | 80.7 | 10 | 5 | US-10-751-845-93 | Sequence 93, Appl |
| 33 | 42 | 73.7 | 9 | 5 | US-10-751-845-85 | Sequence 85, Appl |
| 34 | 40 | 70.2 | 148 | 6 | US-11-021-949-17 | Sequence 17, Appl |
| 35 | 40 | 70.2 | 149 | 6 | US-11-021-949-15 | Sequence 15, Appl |
| 36 | 40 | 70.2 | 153 | 6 | US-11-021-949-20 | Sequence 20, Appl |
| 37 | 40 | 70.2 | 438 | 5 | US-10-732-923-23922 | Sequence 23922, A |
| 38 | 39 | 68.4 | 9 | 4 | US-10-239-313A-313 | Sequence 313, App |
| 39 | 39 | 68.4 | 9 | 5 | US-10-751-845-86 | Sequence 86, Appl |
| 40 | 39 | 68.4 | 10 | 5 | US-10-751-845-80 | Sequence 80, Appl |
| 41 | 39 | 68.4 | 15 | 4 | US-10-476-570-31 | Sequence 31, Appl |
| 42 | 39 | 68.4 | 74 | 5 | US-10-450-763-47127 | Sequence 47127, A |
| 43 | 39 | 68.4 | 215 | 4 | US-10-128-520-106 | Sequence 106, App |
| 44 | 39 | 68.4 | 226 | 4 | US-10-425-115-209019 | Sequence 209019, |
| 45 | 39 | 68.4 | 263 | 4 | US-10-437-963-193431 | Sequence 193431, |
| 46 | 39 | 68.4 | 1233 | 4 | US-10-343-710-85 | Sequence 85, Appl |
| 47 | 39 | 68.4 | 1234 | 4 | US-10-343-710-83 | Sequence 83, Appl |
| 48 | 38 | 66.7 | 838 | 4 | US-10-343-710-110 | Sequence 110, App |
| 49 | 38 | 66.7 | 838 | 4 | US-10-343-710-112 | Sequence 112, App |
| 50 | 38 | 66.7 | 1226 | 4 | US-10-437-963-129996 | Sequence 129996, |
| 51 | 38 | 66.7 | 1965 | 4 | US-10-359-012-6 | Sequence 6, Appli |
| 52 | 37 | 64.9 | 60 | 4 | US-10-425-115-250734 | Sequence 250734, |
| 53 | 37 | 64.9 | 92 | 3 | US-09-864-761-34291 | Sequence 34291, A |
| 54 | 37 | 64.9 | 121 | 4 | US-10-425-115-288323 | Sequence 288323, |
| 55 | 37 | 64.9 | 149 | 6 | US-11-021-949-16 | Sequence 16, Appl |
| 56 | 37 | 64.9 | 295 | 3 | US-09-893-737-324 | Sequence 324, App |
| 57 | 37 | 64.9 | 295 | 5 | US-10-970-713-324 | Sequence 324, App |
| 58 | 37 | 64.9 | 571 | 4 | US-10-439-532-13 | Sequence 13, Appl |
| 59 | 37 | 64.9 | 571 | 4 | US-10-712-584-13 | Sequence 13, Appl |
| 60 | 37 | 64.9 | 833 | 4 | US-10-264-237-2301 | Sequence 2301, Ap |
| 61 | 37 | 64.9 | 929 | 5 | US-10-220-335-183 | Sequence 183, App |
| 62 | 37 | 64.9 | 981 | 4 | US-10-128-714-3498 | Sequence 3498, Ap |
| 63 | 37 | 64.9 | 1103 | 4 | US-10-128-714-8498 | Sequence 8498, Ap |
| 64 | 37 | 64.9 | 1720 | 4 | US-10-471-450-1 | Sequence 1, Appli |
| 65 | 36.5 | 64.0 | 307 | 4 | US-10-369-493-21557 | Sequence 21557, A |
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| 67 | 36 | 63.2 | 49 | 4 | US-10-023-896-69 | Sequence 69, Appl |
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| 69 | 36 | 63.2 | 71 | 4 | US-10-106-698-7104 | Sequence 7104, Ap |
| 70 | 36 | 63.2 | 79 | 4 | US-10-424-599-247463 | Sequence 247463, |
| 71 | 36 | 63.2 | 90 | 4 | US-10-767-701-49687 | Sequence 49687, A |
| 72 | 36 | 63.2 | 138 | 5 | US-10-450-763-39449 | Sequence 39449, A |
| 73 | 36 | 63.2 | 141 | 3 | US-09-755-100-12 | Sequence 12, Appl |
| 74 | 36 | 63.2 | 141 | 4 | US-10-298-965-12 | Sequence 12, Appl |
| 75 | 36 | 63.2 | 141 | 5 | US-10-800-665-12 | Sequence 12, Appl |
| 76 | 36 | 63.2 | 208 | 5 | US-10-450-763-39451 | Sequence 39451, A |
| 77 | 36 | 63.2 | 215 | 4 | US-10-425-115-299699 | Sequence 299699, |
| 78 | 36 | 63.2 | 233 | 5 | US-10-353-575A-28 | Sequence 28, Appl |
| 79 | 36 | 63.2 | 334 | 5 | US-10-771-833-30 | Sequence 30, Appl |
| 80 | 36 | 63.2 | 334 | 5 | US-10-886-949-30 | Sequence 30, Appl |
| 81 | 36 | 63.2 | 412 | 5 | US-10-831-070-150 | Sequence 150, App |
| 82 | 36 | 63.2 | 421 | 3 | US-09-741-669-400 | Sequence 400, App |
| 83 | 36 | 63.2 | 421 | 4 | US-10-282-122A-42751 | Sequence 42751, A |
| 84 | 36 | 63.2 | 452 | 5 | US-10-489-695-25 | Sequence 25, Appl |
| 85 | 36 | 63.2 | 467 | 5 | US-10-489-695-8 | Sequence 8, Appli |
| 86 | 36 | 63.2 | 471 | 5 | US-10-489-695-26 | Sequence 26, Appl |
| 87 | 36 | 63.2 | 504 | 5 | US-10-450-763-35901 | Sequence 35901, A |
| 88 | 36 | 63.2 | 606 | 4 | US-10-439-532-12 | Sequence 12, Appl |
| 89 | 36 | 63.2 | 606 | 4 | US-10-712-584-12 | Sequence 12, Appl |
| 90 | 36 | 63.2 | 706 | 5 | US-10-732-923-8942 | Sequence 8942, Ap |
| 91 | 36 | 63.2 | 738 | 5 | US-10-732-923-8907 | Sequence 8907, Ap |
| 92 | 36 | 63.2 | 769 | 4 | US-10-437-963-132068 | Sequence 132068, |
| 93 | 36 | 63.2 | 786 | 4 | US-10-104-047-2944 | Sequence 2944, Ap |
| 94 | 36 | 63.2 | 905 | 4 | US-10-094-989-4 | Sequence 4, Appli |
| 95 | 36 | 63.2 | 920 | 4 | US-10-094-989-2 | Sequence 2, Appli |
| 96 | 36 | 63.2 | 920 | 4 | US-10-236-417-78 | Sequence 78, Appl |
| 97 | 36 | 63.2 | 921 | 3 | US-09-883-825-39 | Sequence 39, Appl |
| 98 | 36 | 63.2 | 921 | 4 | US-10-094-989-5 | Sequence 5, Appli |
| 99 | 36 | 63.2 | 921 | 4 | US-10-697-894-39 | Sequence 39, Appl |
| 100 | 36 | 63.2 | 941 | 3 | US-09-883-825-45 | Sequence 45, Appl |

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| 102 | 36 | 63.2 | 941 | 5 | US-10-686-390-5 | Sequence 5, Appli |
| 103 | 36 | 63.2 | 941 | 5 | US-10-686-282-5 | Sequence 5, Appli |
| 104 | 36 | 63.2 | 941 | 5 | US-10-686-349-5 | Sequence 5, Appli |
| 105 | 36 | 63.2 | 941 | 5 | US-10-756-149-5245 | Sequence 5245, Ap |
| 106 | 36 | 63.2 | 942 | 3 | US-09-883-825-43 | Sequence 43, Appl |
| 107 | 36 | 63.2 | 942 | 4 | US-10-697-894-43 | Sequence 43, Appl |
| 108 | 36 | 63.2 | 950 | 4 | US-10-108-260A-2928 | Sequence 2928, Ap |
| 109 | 36 | 63.2 | 1000 | 5 | US-10-647-268-8 | Sequence 8, Appli |
| 110 | 36 | 63.2 | 1618 | 3 | US-09-742-153-4 | Sequence 4, Appli |
| 111 | 36 | 63.2 | 2887 | 3 | US-09-742-153-2 | Sequence 2, Appli |
| 112 | 36 | 63.2 | 2887 | 3 | US-09-742-153-8 | Sequence 8, Appli |
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| 114 | 35.5 | 62.3 | 51 | 3 | US-09-972-484-4 | Sequence 4, Appli |
| 115 | 35.5 | 62.3 | 255 | 3 | US-09-972-484-41 | Sequence 41, Appl |
| 116 | 35.5 | 62.3 | 428 | 3 | US-09-972-484-43 | Sequence 43, Appl |
| 117 | 35.5 | 62.3 | 1101 | 3 | US-09-972-484-52 | Sequence 52, Appl |
| 118 | 35.5 | 62.3 | 1101 | 3 | US-09-972-484-54 | Sequence 54, Appl |
| 119 | 35.5 | 62.3 | 1452 | 3 | US-09-972-484-2 | Sequence 2, Appli |
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| 121 | 35 | 61.4 | 18 | 3 | US-09-880-748-2810 | Sequence 2810, Ap |
| 122 | 35 | 61.4 | 18 | 4 | US-10-094-401-212 | Sequence 212, App |
| 123 | 35 | 61.4 | 18 | 4 | US-10-293-418-2810 | Sequence 2810, Ap |
| 124 | 35 | 61.4 | 18 | 4 | US-10-462-262-180 | Sequence 180, App |
| 125 | 35 | 61.4 | 35 | 4 | US-10-425-115-295952 | Sequence 295952, |
| 126 | 35 | 61.4 | 36 | 4 | US-10-424-599-164329 | Sequence 164329, |
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| 132 | 35 | 61.4 | 70 | 4 | US-10-425-115-239614 | Sequence 239614, |
| 133 | 35 | 61.4 | 75 | 4 | US-10-424-599-184284 | Sequence 184284, |
| 134 | 35 | 61.4 | 77 | 4 | US-10-424-599-248165 | Sequence 248165, |
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| 136 | 35 | 61.4 | 91 | 4 | US-10-289-762-1162 | Sequence 1162, Ap |
| 137 | 35 | 61.4 | 101 | 4 | US-10-096-246-18 | Sequence 18, Appl |
| 138 | 35 | 61.4 | 102 | 4 | US-10-437-963-118714 | Sequence 118714, |
| 139 | 35 | 61.4 | 117 | 4 | US-10-424-599-157683 | Sequence 157683, |
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| 141 | 35 | 61.4 | 125 | 4 | US-10-425-115-259765 | Sequence 259765, |
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| 144 | 35 | 61.4 | 211 | 4 | US-10-083-357-691 | Sequence 691, App |
| 145 | 35 | 61.4 | 249 | 3 | US-09-880-748-946 | Sequence 946, App |
| 146 | 35 | 61.4 | 249 | 4 | US-10-293-418-946 | Sequence 946, App |
| 147 | 35 | 61.4 | 260 | 5 | US-10-732-923-5716 | Sequence 5716, Ap |
| 148 | 35 | 61.4 | 263 | 6 | US-11-097-143-35202 | Sequence 35202, A |
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| 151 | 35 | 61.4 | 469 | 4 | US-10-437-963-130625 | Sequence 130625, |
| 152 | 35 | 61.4 | 477 | 4 | US-10-369-493-23077 | Sequence 23077, A |
| 153 | 35 | 61.4 | 554 | 3 | US-09-742-153-22 | Sequence 22, Appl |
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| 156 | 35 | 61.4 | 815 | 4 | US-10-296-115-1390 | Sequence 1390, Ap |
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| 159 | 35 | 61.4 | 873 | 4 | US-10-437-963-193309 | Sequence 193309, |
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| 165 | 35 | 61.4 | 1452 | 4 | US-10-408-765A-83 | Sequence 83, Appl |
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| 170 | 34 | 59.6 | 9 | 4 | US-10-303-331-103 | Sequence 103, App |
| 171 | 34 | 59.6 | 9 | 5 | US-10-968-732-103 | Sequence 103, App |
| 172 | 34 | 59.6 | 9 | 5 | US-10-971-596-30 | Sequence 30, Appl |
| 173 | 34 | 59.6 | 10 | 5 | US-10-984-514-9 | Sequence 9, Appli |
| 174 | 34 | 59.6 | 13 | 5 | US-10-984-270A-43 | Sequence 43, Appl |
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| 176 | 34 | 59.6 | 21 | 4 | US-10-381-112-428 | Sequence 428, App |
| 177 | 34 | 59.6 | 21 | 4 | US-10-381-112-457 | Sequence 457, App |
| 178 | 34 | 59.6 | 21 | 4 | US-10-381-112-489 | Sequence 489, App |
| 179 | 34 | 59.6 | 21 | 4 | US-10-381-112-490 | Sequence 490, App |
| 180 | 34 | 59.6 | 21 | 4 | US-10-381-112-491 | Sequence 491, App |
| 181 | 34 | 59.6 | 21 | 4 | US-10-381-112-510 | Sequence 510, App |
| 182 | 34 | 59.6 | 21 | 4 | US-10-381-112-511 | Sequence 511, App |
| 183 | 34 | 59.6 | 34 | 4 | US-10-425-115-226672 | Sequence 226672, |
| 184 | 34 | 59.6 | 48 | 4 | US-10-425-115-190835 | Sequence 190835, |
| 185 | 34 | 59.6 | 48 | 4 | US-10-425-115-273508 | Sequence 273508, |
| 186 | 34 | 59.6 | 64 | 4 | US-10-437-963-155813 | Sequence 155813, |
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| 188 | 34 | 59.6 | 70 | 4 | US-10-231-417-171 | Sequence 171, App |
| 189 | 34 | 59.6 | 71 | 5 | US-10-971-596-15 | Sequence 15, Appl |
| 190 | 34 | 59.6 | 71 | 5 | US-10-971-596-16 | Sequence 16, Appl |
| 191 | 34 | 59.6 | 71 | 5 | US-10-971-596-17 | Sequence 17, Appl |
| 192 | 34 | 59.6 | 71 | 5 | US-10-984-270A-22 | Sequence 22, Appl |
| 193 | 34 | 59.6 | 71 | 5 | US-10-984-270A-23 | Sequence 23, Appl |
| 194 | 34 | 59.6 | 71 | 5 | US-10-984-270A-24 | Sequence 24, Appl |
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| 199 | 34 | 59.6 | 80 | 4 | US-10-083-357-1187 | Sequence 1187, Ap |
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| 201 | 34 | 59.6 | 86 | 4 | US-10-425-115-365580 | Sequence 365580, |
| 202 | 34 | 59.6 | 87 | 4 | US-10-437-963-152779 | Sequence 152779, |
| 203 | 34 | 59.6 | 87 | 5 | US-10-984-514-180 | Sequence 180, App |
| 204 | 34 | 59.6 | 94 | 4 | US-10-425-115-234648 | Sequence 234648, |
| 205 | 34 | 59.6 | 104 | 4 | US-10-424-599-261787 | Sequence 261787, |
| 206 | 34 | 59.6 | 107 | 3 | US-09-764-846-167 | Sequence 167, App |
| 207 | 34 | 59.6 | 107 | 4 | US-10-091-483-167 | Sequence 167, App |
| 208 | 34 | 59.6 | 115 | 4 | US-10-424-599-274139 | Sequence 274139, |
| 209 | 34 | 59.6 | 122 | 4 | US-10-424-599-264373 | Sequence 264373, |
| 210 | 34 | 59.6 | 123 | 5 | US-10-996-316-202 | Sequence 202, App |
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| 215 | 34 | 59.6 | 194 | 4 | US-10-038-854-356 | Sequence 356, App |
| 216 | 34 | 59.6 | 227 | 4 | US-10-425-114-38060 | Sequence 38060, A |
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| 218 | 34 | 59.6 | 283 | 4 | US-10-781-014-658 | Sequence 658, App |
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| 233 | 34 | 59.6 | 550 | 5 | US-10-840-060-106 | Sequence 106, App |
| 234 | 34 | 59.6 | 550 | 5 | US-10-840-060-108 | Sequence 108, App |
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| 236 | 34 | 59.6 | 550 | 6 | US-11-097-143-25065 | Sequence 25065, A |
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| 254 | 33 | 57.9 | 13 | 5 | US-10-646-381-73 | Sequence 73, Appl |
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| 260 | 33 | 57.9 | 50 | 4 | US-10-437-963-111637 | Sequence 111637, |
| 261 | 33 | 57.9 | 55 | 4 | US-10-425-115-186558 | Sequence 186558, |
| 262 | 33 | 57.9 | 57 | 4 | US-10-424-599-249356 | Sequence 249356, |
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| 267 | 33 | 57.9 | 77 | 5 | US-10-220-335-587 | Sequence 587, App |
| 268 | 33 | 57.9 | 78 | 4 | US-10-437-963-203414 | Sequence 203414, |
| 269 | 33 | 57.9 | 79 | 3 | US-09-864-408A-1694 | Sequence 1694, Ap |
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| 273 | 33 | 57.9 | 92 | 4 | US-10-424-599-197913 | Sequence 197913, |
| 274 | 33 | 57.9 | 94 | 4 | US-10-425-115-274059 | Sequence 274059, |
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| 278 | 33 | 57.9 | 107 | 3 | US-09-848-798-44 | Sequence 44, Appl |
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| 280 | 33 | 57.9 | 107 | 4 | US-10-462-062-146 | Sequence 146, App |
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| 283 | 33 | 57.9 | 125 | 4 | US-10-462-062-159 | Sequence 159, App |
| 284 | 33 | 57.9 | 125 | 4 | US-10-462-062-160 | Sequence 160, App |
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| 304 | 33 | 57.9 | 263 | 4 | US-10-424-599-249305 | Sequence 249305, |
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| 325 | 33 | 57.9 | 396 | 3 | US-09-847-208-13 | Sequence 13, Appl |
| 326 | 33 | 57.9 | 396 | 5 | US-10-809-689-100 | Sequence 100, App |
| 327 | 33 | 57.9 | 397 | 3 | US-09-847-208-17 | Sequence 17, Appl |
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| 376 | 32 | 56.1 | 21 | 3 | US-09-818-683-492 | Sequence 492, App |
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| 600 | 32 | 56.1 | 544 | 4 | US-10-232-222-12 | Sequence 12, Appl |
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| 604 | 32 | 56.1 | 544 | 4 | US-10-227-877-12 | Sequence 12, Appl |
| 605 | 32 | 56.1 | 544 | 4 | US-10-216-166-12 | Sequence 12, Appl |
| 606 | 32 | 56.1 | 544 | 4 | US-10-218-612-12 | Sequence 12, Appl |
| 607 | 32 | 56.1 | 544 | 4 | US-10-216-163-12 | Sequence 12, Appl |
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| 613 | 32 | 56.1 | 544 | 4 | US-10-219-069-12 | Sequence 12, Appl |
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| 615 | 32 | 56.1 | 544 | 4 | US-10-219-475-12 | Sequence 12, Appl |
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| 627 | 32 | 56.1 | 544 | 4 | US-10-232-226-12 | Sequence 12, Appl |
| 628 | 32 | 56.1 | 544 | 4 | US-10-230-130-12 | Sequence 12, Appl |
| 629 | 32 | 56.1 | 544 | 4 | US-10-219-535-12 | Sequence 12, Appl |
| 630 | 32 | 56.1 | 544 | 4 | US-10-232-230-12 | Sequence 12, Appl |
| 631 | 32 | 56.1 | 544 | 4 | US-10-119-480-12 | Sequence 12, Appl |
| 632 | 32 | 56.1 | 544 | 5 | US-10-219-477-12 | Sequence 12, Appl |
| 633 | 32 | 56.1 | 545 | 4 | US-10-115-479-26 | Sequence 26, Appl |
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| 635 | 32 | 56.1 | 556 | 3 | US-09-742-153-24 | Sequence 24, Appl |
| 636 | 32 | 56.1 | 556 | 3 | US-09-742-153-26 | Sequence 26, Appl |
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| 640 | 32 | 56.1 | 562 | 4 | US-10-425-115-353012 | Sequence 353012, |
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| 644 | 32 | 56.1 | 577 | 5 | US-10-838-834-2 | Sequence 2, Appli |
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| 663 | 32 | 56.1 | 753 | 4 | US-10-741-790-205 | Sequence 205, App |
| 664 | 32 | 56.1 | 778 | 3 | US-09-759-130B-203 | Sequence 203, App |
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| 679 | 32 | 56.1 | 1058 | 4 | US-10-343-710-79 | Sequence 79, Appl |
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| 853 | 31 | 54.4 | 54 | 4 | US-10-425-115-243709 | Sequence 243709, |
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| 866 | 31 | 54.4 | 67 | 4 | US-10-425-115-290663 | Sequence 290663, |
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| 868 | 31 | 54.4 | 68 | 4 | US-10-125-540-410 | Sequence 410, App |
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| 878 | 31 | 54.4 | 76 | 4 | US-10-424-599-278086 | Sequence 278086, |
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| 886 | 31 | 54.4 | 81 | 4 | US-10-424-599-236726 | Sequence 236726, |
| 887 | 31 | 54.4 | 81 | 4 | US-10-425-115-283518 | Sequence 283518, |
| 888 | 31 | 54.4 | 82 | 4 | US-10-425-115-242912 | Sequence 242912, |
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| 890 | 31 | 54.4 | 84 | 4 | US-10-424-599-145752 | Sequence 145752, |
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| 893 | 31 | 54.4 | 85 | 4 | US-10-083-357-956 | Sequence 956, App |
| 894 | 31 | 54.4 | 85 | 4 | US-10-004-860-546 | Sequence 546, App |
| 895 | 31 | 54.4 | 85 | 4 | US-10-023-282-546 | Sequence 546, App |
| 896 | 31 | 54.4 | 85 | 4 | US-10-425-115-267682 | Sequence 267682, |
| 897 | 31 | 54.4 | 85 | 4 | US-10-425-115-306403 | Sequence 306403, |
| 898 | 31 | 54.4 | 86 | 4 | US-10-424-599-228313 | Sequence 228313, |
| 899 | 31 | 54.4 | 86 | 4 | US-10-424-599-266085 | Sequence 266085, |
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| 901 | 31 | 54.4 | 87 | 4 | US-10-424-599-156985 | Sequence 156985, |
| 902 | 31 | 54.4 | 88 | 4 | US-10-424-599-201010 | Sequence 201010, |
| 903 | 31 | 54.4 | 89 | 4 | US-10-437-963-150151 | Sequence 150151, |
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| 905 | 31 | 54.4 | 92 | 4 | US-10-424-599-278884 | Sequence 278884, |
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| 908 | 31 | 54.4 | 94 | 4 | US-10-083-357-882 | Sequence 882, App |
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| 910 | 31 | 54.4 | 95 | 4 | US-10-767-701-53417 | Sequence 53417, A |
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| 917 | 31 | 54.4 | 102 | 5 | US-10-680-963A-35 | Sequence 35, Appl |
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| 919 | 31 | 54.4 | 104 | 4 | US-10-425-115-238298 | Sequence 238298, |
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| 922 | 31 | 54.4 | 106 | 4 | US-10-096-246-15 | Sequence 15, Appl |
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| 924 | 31 | 54.4 | 106 | 4 | US-10-424-599-227924 | Sequence 227924, |
| 925 | 31 | 54.4 | 107 | 4 | US-10-007-790-4 | Sequence 4, Appli |
| 926 | 31 | 54.4 | 107 | 5 | US-10-957-163-4 | Sequence 4, Appli |
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| 928 | 31 | 54.4 | 108 | 4 | US-10-383-447-20 | Sequence 20, Appl |
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| 933 | 31 | 54.4 | 111 | 4 | US-10-425-115-213456 | Sequence 213456, |
| 934 | 31 | 54.4 | 113 | 4 | US-10-425-115-195167 | Sequence 195167, |
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| 937 | 31 | 54.4 | 117 | 3 | US-09-835-087-8 | Sequence 8, Appli |
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| 941 | 31 | 54.4 | 117 | 3 | US-09-840-459-10 | Sequence 10, Appl |
| 942 | 31 | 54.4 | 117 | 3 | US-09-840-459-20 | Sequence 20, Appl |
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| 949 | 31 | 54.4 | 117 | 4 | US-10-425-115-344577 | Sequence 344577, |
| 950 | 31 | 54.4 | 117 | 5 | US-10-662-061-12 | Sequence 12, Appl |
| 951 | 31 | 54.4 | 117 | 5 | US-10-662-061-23 | Sequence 23, Appl |
| 952 | 31 | 54.4 | 118 | 5 | US-10-500-240-46 | Sequence 46, Appl |
| 953 | 31 | 54.4 | 119 | 3 | US-09-253-794-2 | Sequence 2, Appli |
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| 955 | 31 | 54.4 | 119 | 3 | US-09-253-794-9 | Sequence 9, Appli |
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| 957 | 31 | 54.4 | 119 | 3 | US-09-253-794-11 | Sequence 11, Appl |
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| 961 | 31 | 54.4 | 119 | 4 | US-10-680-734-10 | Sequence 10, Appl |
| 962 | 31 | 54.4 | 119 | 4 | US-10-680-734-11 | Sequence 11, Appl |
| 963 | 31 | 54.4 | 119 | 5 | US-10-755-382-2 | Sequence 2, Appli |
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| 968 | 31 | 54.4 | 120 | 5 | US-10-706-689-30 | Sequence 30, Appl |
| 969 | 31 | 54.4 | 120 | 5 | US-10-988-360-30 | Sequence 30, Appl |
| 970 | 31 | 54.4 | 121 | 4 | US-10-424-599-269940 | Sequence 269940, |
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| 972 | 31 | 54.4 | 122 | 5 | US-10-729-441-73 | Sequence 73, Appl |
| 973 | 31 | 54.4 | 122 | 5 | US-10-897-406-73 | Sequence 73, Appl |
| 974 | 31 | 54.4 | 123 | 4 | US-10-074-024-358 | Sequence 358, App |
| 975 | 31 | 54.4 | 124 | 4 | US-10-425-115-197239 | Sequence 197239, |
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| 977 | 31 | 54.4 | 125 | 4 | US-10-437-963-152061 | Sequence 152061, |
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| 979 | 31 | 54.4 | 126 | 4 | US-10-407-079-15 | Sequence 15, Appl |
| 980 | 31 | 54.4 | 126 | 4 | US-10-767-701-61886 | Sequence 61886, A |
| 981 | 31 | 54.4 | 130 | 4 | US-10-083-357-1330 | Sequence 1330, Ap |
| 982 | 31 | 54.4 | 130 | 4 | US-10-424-599-145103 | Sequence 145103, |
| 983 | 31 | 54.4 | 130 | 4 | US-10-437-963-186970 | Sequence 186970, |
| 984 | 31 | 54.4 | 132 | 4 | US-10-424-599-156444 | Sequence 156444, |
| 985 | 31 | 54.4 | 132 | 4 | US-10-425-115-195699 | Sequence 195699, |
| 986 | 31 | 54.4 | 133 | 5 | US-10-450-763-47340 | Sequence 47340, A |
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| 989 | 31 | 54.4 | 138 | 5 | US-10-501-282-854 | Sequence 854, App |
| 990 | 31 | 54.4 | 139 | 4 | US-10-424-599-231838 | Sequence 231838, |
| 991 | 31 | 54.4 | 141 | 5 | US-10-500-240-45 | Sequence 45, Appl |
| 992 | 31 | 54.4 | 142 | 4 | US-10-767-701-57381 | Sequence 57381, A |
| 993 | 31 | 54.4 | 142 | 4 | US-10-425-115-323424 | Sequence 323424, |
| 994 | 31 | 54.4 | 142 | 5 | US-10-680-963A-34 | Sequence 34, Appl |
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| 996 | 31 | 54.4 | 145 | 4 | US-10-231-494-23 | Sequence 23, Appl |
| 997 | 31 | 54.4 | 145 | 4 | US-10-437-963-178181 | Sequence 178181, |
| 998 | 31 | 54.4 | 145 | 4 | US-10-724-972A-4203 | Sequence 4203, Ap |
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ALIGNMENTS

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RESULT 1
US-10-751-845-88
; Sequence 88, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 88
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-88

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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db          1 HYCYSLYGT 9


RESULT 2
US-10-751-845-91
; Sequence 91, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 91
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-91

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Qy          1 HYCYSLYGT 9
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Db          1 HYCYSLYGT 9


RESULT 3
US-10-476-570-33
; Sequence 33, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 33
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 81-95
US-10-476-570-33

  Query Match            100.0%;  Score 57;  DB 4;  Length 15;
  Best Local Similarity  100.0%;  Pred. No. 0.013;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
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Db          5 HYCYSLYGT 13


RESULT 4
US-10-476-570-34
; Sequence 34, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
```

; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 84-98
US-10-476-570-34

Query Match 100.0%; Score 57; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
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Db 2 HYCYSLYGT 10

RESULT 5
US-10-476-570-12
; Sequence 12, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 20
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 76-95
US-10-476-570-12

Query Match 100.0%; Score 57; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.016;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
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Db 10 HYCYSLYGT 18

RESULT 6
US-10-751-845-66
; Sequence 66, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 66
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-66

Query Match 100.0%; Score 57; DB 5; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
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Db 7 HYCYSLYGT 15

RESULT 7
US-10-476-570-55
; Sequence 55, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 55
; LENGTH: 29
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 80-108
US-10-476-570-55

Query Match 100.0%; Score 57; DB 4; Length 29;
Best Local Similarity 100.0%; Pred. No. 0.023;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||||
Db 6 HYCYSLYGT 14

RESULT 8
US-10-858-384-8

; Sequence 8, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 8
; LENGTH: 29
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
; OTHER INFORMATION: for E6 of HPV
US-10-858-384-8

Query Match 100.0%; Score 57; DB 5; Length 29;
Best Local Similarity 100.0%; Pred. No. 0.023;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||| 
Db 6 HYCYSLYGT 14

RESULT 9
US-10-751-845-126
; Sequence 126, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-126

Query Match 100.0%; Score 57; DB 5; Length 117;
Best Local Similarity 100.0%; Pred. No. 0.087;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||| 
Db 51 HYCYSLYGT 59

RESULT 10
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-858-384-2

Query Match 100.0%; Score 57; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||| 
Db 85 HYCYSLYGT 93

RESULT 11
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
; APPLICANT: Cuthill, Scott;
; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; APPLICANT: Ooi, Chean Eng
; TITLE OF INVENTION: Complexes and Methods of Using Same
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/256,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 16
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-367-057-16

Query Match 100.0%; Score 57; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||| 
Db 85 HYCYSLYGT 93

RESULT 12
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER

; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

Query Match 100.0%; Score 57; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||| 
Db 85 HYCYSLYGT 93

RESULT 13
US-10-472-724-2
; Sequence 2, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 171
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

Query Match 100.0%; Score 57; DB 4; Length 171;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||| 
Db 90 HYCYSLYGT 98

RESULT 14
US-10-751-845-157
; Sequence 157, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 157
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157

Query Match 100.0%; Score 57; DB 5; Length 236;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||| 
Db 51 HYCYSLYGT 59

RESULT 15
US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 158
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158

Query Match 100.0%; Score 57; DB 5; Length 237;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||| 
Db 52 HYCYSLYGT 60

RESULT 16
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOUL, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION

; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/11/072,288
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US/09/462,993
; PRIOR FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Derivated from
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
; OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

Query Match 100.0%; Score 57; DB 6; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||| 
Db 113 HYCYSLYGT 121

RESULT 17
US-10-751-845-160
; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 160
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160

Query Match 100.0%; Score 57; DB 5; Length 261;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||| 
Db 76 HYCYSLYGT 84

RESULT 18
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 57; DB 3; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||| 
Db 85 HYCYSLYGT 93

RESULT 19
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-4

Query Match 100.0%; Score 57; DB 4; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||| 
Db 191 HYCYSLYGT 199

RESULT 20
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27

; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
; OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-4

Query Match 100.0%; Score 57; DB 5; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||| 
Db 191 HYCYSLYGT 199

RESULT 21
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-10

Query Match 100.0%; Score 57; DB 4; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||| 
Db 210 HYCYSLYGT 218

RESULT 22
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-10

Query Match 100.0%; Score 57; DB 5; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||| 
Db 210 HYCYSLYGT 218

RESULT 23
US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-6

Query Match 100.0%; Score 57; DB 4; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.26;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||| 
Db 191 HYCYSLYGT 199

RESULT 24
US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124

; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
; OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-6

Query Match 100.0%; Score 57; DB 5; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.26;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||| 
Db 191 HYCYSLYGT 199

RESULT 25
US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-14

Query Match 100.0%; Score 57; DB 4; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||| 
Db 210 HYCYSLYGT 218

RESULT 26
US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-14

Query Match 100.0%; Score 57; DB 5; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||||| 
Db 210 HYCYSLYGT 218

RESULT 27
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
; APPLICANT: N.V. Antwerps Innovatiecentrum
; TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
; TITLE OF INVENTION: Polynucleotides by Electroporation
; FILE REFERENCE: 021505wo/JH/ml
; CURRENT APPLICATION NUMBER: US/10/177,390
; CURRENT FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-177-390-6

Query Match 94.7%; Score 54; DB 4; Length 151;
Best Local Similarity 88.9%; Pred. No. 0.35;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||:||| 
Db 78 HYCYSVYGT 86

RESULT 28
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198

; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-20

Query Match 94.7%; Score 54; DB 5; Length 151;
Best Local Similarity 88.9%; Pred. No. 0.35;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||:|||
Db 78 HYCYSVYGT 86

RESULT 29
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-27

Query Match 94.7%; Score 54; DB 5; Length 151;
Best Local Similarity 88.9%; Pred. No. 0.35;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||||||:|||
Db 78 HYCYSVYGT 86

RESULT 30
US-10-476-570-32
; Sequence 32, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 32
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 78-92
US-10-476-570-32

Query Match 91.2%; Score 52; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.084;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSLYG 8
||||||||
Db 8 HYCYSLYG 15

RESULT 31
US-10-751-845-79
; Sequence 79, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 79
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-79

Query Match 82.5%; Score 47; DB 5; Length 10;
Best Local Similarity 87.5%; Pred. No. 0.38;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 YCYSLYGT 9
||||:|||
Db 1 YCYSIYGT 8

RESULT 32
US-10-751-845-93
; Sequence 93, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16

```
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 93
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-93

  Query Match             80.7%;  Score 46;  DB 5;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.56;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLY 7
              |||||||
Db          4 HYCYSLY 10


RESULT 33
US-10-751-845-85
; Sequence 85, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 85
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-85

  Query Match             73.7%;  Score 42;  DB 5;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.7e+06;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 CYSLYGT 9
              |||||||
Db          1 CYSLYGT 7


RESULT 34
US-11-021-949-17
; Sequence 17, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 17
;   LENGTH: 148
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-17

  Query Match             70.2%;  Score 40;  DB 6;  Length 148;
  Best Local Similarity   87.5%;  Pred. No. 70;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYG 8
              || |||||
Db         78 HYQYSLYG 85


RESULT 35
US-11-021-949-15
; Sequence 15, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 15
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-15

  Query Match             70.2%;  Score 40;  DB 6;  Length 149;
  Best Local Similarity   87.5%;  Pred. No. 70;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYG 8
              || |||||
Db         78 HYNYSLYG 85


RESULT 36
US-11-021-949-20
; Sequence 20, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 20
;   LENGTH: 153
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-20

  Query Match             70.2%;  Score 40;  DB 6;  Length 153;
```

```
  Best Local Similarity   87.5%;  Pred. No. 72;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYG 8
              || |||||
Db         81 HYNYSLYG 88


RESULT 37
US-10-732-923-23922
; Sequence 23922, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
;  APPLICANT: Edgerton, Michael D
;  TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
;  FILE REFERENCE: 38-15(52796)C
;  CURRENT APPLICATION NUMBER: US/10/732,923
;  CURRENT FILING DATE:  2003-12-10
;  PRIOR APPLICATION NUMBER: 10/310,154
;  PRIOR FILING DATE: 2002-12-04
;  NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 23922
;   LENGTH: 438
;   TYPE: PRT
;   ORGANISM: Anopheles gambiae str. PEST
US-10-732-923-23922

  Query Match             70.2%;  Score 40;  DB 5;  Length 438;
  Best Local Similarity   77.8%;  Pred. No. 1.9e+02;
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
              | |||||  |
Db        317 HVCYSLYFT 325


RESULT 38
US-10-239-313A-313
; Sequence 313, Application US/10239313A
; Publication No. US20030175285A1
; GENERAL INFORMATION:
;  APPLICANT: KLINGUER - HAMOUR, Christine
;  APPLICANT:  CORVAIA, Nathalie
;  APPLICANT:  BECK, Alain
;  APPLICANT:  GOETSCH, Liliane
;  TITLE OF INVENTION: MOLECULE OF PHARMACEUTICAL INTEREST COMPRISING AT ITS
;  TITLE OF INVENTION:  N-TERMINAL A GLUTAMIC ACID OR A GLUTAMINE IN THE FORM
;  TITLE OF INVENTION:  OF A PHYSIOLOGICALLY ACCEPTABLE STRONG ACID
;  FILE REFERENCE: 343 727 - US
;  CURRENT APPLICATION NUMBER: US/10/239,313A
;  CURRENT FILING DATE:  2002-09-19
;  PRIOR APPLICATION NUMBER: FR 00/03711
;  PRIOR FILING DATE: 2000-03-23
;  PRIOR APPLICATION NUMBER: PCT 01/70772
;  PRIOR FILING DATE: 2001-03-22
;  NUMBER OF SEQ ID NOS: 697
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 313
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-239-313A-313

  Query Match             68.4%;  Score 39;  DB 4;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.7e+06;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSL 6
              ||||||
Db          4 HYCYSL 9


RESULT 39
US-10-751-845-86
; Sequence 86, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 86
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-86

  Query Match             68.4%;  Score 39;  DB 5;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.7e+06;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSL 6
              ||||||
Db          4 HYCYSL 9


RESULT 40
US-10-751-845-80
; Sequence 80, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 80
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-80

  Query Match             68.4%;  Score 39;  DB 5;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 8;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSL 6
              ||||||
Db          5 HYCYSL 10


RESULT 41
US-10-476-570-31
; Sequence 31, Application US/10476570
; Publication No. US20040170644A1
```

```
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 31
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 76-90
US-10-476-570-31

  Query Match             68.4%;  Score 39;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 12;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSL 6
              ||||||
Db         10 HYCYSL 15


RESULT 42
US-10-450-763-47127
; Sequence 47127, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
;  APPLICANT: Hyseq, Inc
;  TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
;  FILE REFERENCE: 790CIP3/US
;  CURRENT APPLICATION NUMBER: US/10/450,763
;  CURRENT FILING DATE:  2003-06-11
;  PRIOR APPLICATION NUMBER: PCT/US01/08631
;  PRIOR FILING DATE: 2001-03-30
;  PRIOR APPLICATION NUMBER: 09/540,217
;  PRIOR FILING DATE: 2000-03-31
;  PRIOR APPLICATION NUMBER: 09/649,167
;  PRIOR FILING DATE: 2000-08-23
;  NUMBER OF SEQ ID NOS: 60736
;  SOFTWARE: Custom
; SEQ ID NO 47127
;   LENGTH: 74
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)...(74)
;   OTHER INFORMATION: Xaa = X or * as defined in Table 2
US-10-450-763-47127

  Query Match             68.4%;  Score 39;  DB 5;  Length 74;
  Best Local Similarity   55.6%;  Pred. No. 53;
  Matches    5;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
              |||:  | |
Db         61 HYCFDFYST 69


RESULT 43
US-10-128-520-106
; Sequence 106, Application US/10128520
; Publication No. US20040105862A1
; GENERAL INFORMATION:
;  APPLICANT: PAN et al.
;  TITLE OF INVENTION: Human TIMP-1 Antibodies
;  FILE REFERENCE: 02973.00073
;  CURRENT APPLICATION NUMBER: US/10/128,520
;  CURRENT FILING DATE:  2002-04-24
;  PRIOR APPLICATION NUMBER: US 60/285,683
;  PRIOR FILING DATE: 2001-04-24
;  NUMBER OF SEQ ID NOS: 381
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 106
;   LENGTH: 215
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-128-520-106

  Query Match             68.4%;  Score 39;  DB 4;  Length 215;
  Best Local Similarity   66.7%;  Pred. No. 1.4e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
              :||  ||||
Db         87 YYCQQLYGT 95


RESULT 44
US-10-425-115-209019
; Sequence 209019, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 209019
;   LENGTH: 226
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_122218C.1.pep
US-10-425-115-209019

  Query Match             68.4%;  Score 39;  DB 4;  Length 226;
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RESULT 45
US-10-437-963-193431
; Sequence 193431, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  APPLICANT:  Wu, Wei
;  APPLICANT:  Boukharov, Andrey A.
;  APPLICANT:  Barbazuk, Brad
;  APPLICANT:  Li, Ping
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;  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53221)B
;  CURRENT APPLICATION NUMBER: US/10/437,963
;  CURRENT FILING DATE:  2003-05-14
;  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 193431
;   LENGTH: 263
;   TYPE: PRT
;   ORGANISM: Oryza sativa
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT4530_89570C.1.pep
US-10-437-963-193431

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Db         50 YCYSIYTT 57


RESULT 46
US-10-343-710-85
; Sequence 85, Application US/10343710
; Publication No. US20040087478A1
; GENERAL INFORMATION:
;  APPLICANT: GILLEN, Clemens
;  APPLICANT:  WETZELS, Ingrid
;  APPLICANT:  WNENDT, Stephan
;  APPLICANT:  WEIHE, E.
;  APPLICANT:  SCHAEFER, M., K.-H.
;  TITLE OF INVENTION: SCREENING METHOD
;  FILE REFERENCE: 029310.52022US
;  CURRENT APPLICATION NUMBER: US/10/343,710
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP01/09011
;  PRIOR FILING DATE: 2001-08-03
;  NUMBER OF SEQ ID NOS: 157
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 85
;   LENGTH: 1233
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-343-710-85

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Db        680 YCYSLYSS 687


RESULT 47
US-10-343-710-83
; Sequence 83, Application US/10343710
; Publication No. US20040087478A1
; GENERAL INFORMATION:
;  APPLICANT: GILLEN, Clemens
;  APPLICANT:  WETZELS, Ingrid
;  APPLICANT:  WNENDT, Stephan
;  APPLICANT:  WEIHE, E.
;  APPLICANT:  SCHAEFER, M., K.-H.
;  TITLE OF INVENTION: SCREENING METHOD
;  FILE REFERENCE: 029310.52022US
;  CURRENT APPLICATION NUMBER: US/10/343,710
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP01/09011
;  PRIOR FILING DATE: 2001-08-03
;  NUMBER OF SEQ ID NOS: 157
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 83
;   LENGTH: 1234
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-10-343-710-83

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  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YCYSLYGT 9
              |||||| :
Db        679 YCYSLYSS 686


RESULT 48
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; Sequence 110, Application US/10343710
; Publication No. US20040087478A1
; GENERAL INFORMATION:
;  APPLICANT: GILLEN, Clemens
;  APPLICANT:  WETZELS, Ingrid
;  APPLICANT:  WNENDT, Stephan
;  APPLICANT:  WEIHE, E.
;  APPLICANT:  SCHAEFER, M., K.-H.
;  TITLE OF INVENTION: SCREENING METHOD
;  FILE REFERENCE: 029310.52022US
;  CURRENT APPLICATION NUMBER: US/10/343,710
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP01/09011
;  PRIOR FILING DATE: 2001-08-03
;  NUMBER OF SEQ ID NOS: 157
;  SOFTWARE: PatentIn version 3.2
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;   TYPE: PRT
;   ORGANISM: Rattus norvegicus
US-10-343-710-110

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Db        615 HECYSLYSS 623


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; Publication No. US20040087478A1
; GENERAL INFORMATION:
;  APPLICANT: GILLEN, Clemens
;  APPLICANT:  WETZELS, Ingrid
;  APPLICANT:  WNENDT, Stephan
;  APPLICANT:  WEIHE, E.
;  APPLICANT:  SCHAEFER, M., K.-H.
;  TITLE OF INVENTION: SCREENING METHOD
;  FILE REFERENCE: 029310.52022US
;  CURRENT APPLICATION NUMBER: US/10/343,710
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP01/09011
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US-10-343-710-112
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Query Match 66.7%; Score 38; DB 4; Length 838;
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; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 129996
; LENGTH: 1226
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_3219C.1.pep
US-10-437-963-129996

Query Match 66.7%; Score 38; DB 4; Length 1226;
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Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

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| 53 | 33 | 57.9 | 107 | 11 | US-11-064-174-44 | Sequence 44, Appl |
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| 64 | 33 | 57.9 | 350 | 11 | US-11-096-568A-21683 | Sequence 21683, A |
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| 69 | 33 | 57.9 | 398 | 9 | US-10-498-026-93 | Sequence 93, Appl |
| 70 | 33 | 57.9 | 735 | 9 | US-10-506-443A-75 | Sequence 75, Appl |
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| 77 | 32 | 56.1 | 251 | 11 | US-11-266-444-1343 | Sequence 1343, Ap |
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| 102 | 32 | 56.1 | 657 | 11 | US-11-110-082-37 | Sequence 37, Appl |
| 103 | 32 | 56.1 | 684 | 11 | US-11-096-568A-29026 | Sequence 29026, A |
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| 105 | 32 | 56.1 | 801 | 11 | US-11-087-099-969 | Sequence 969, App |
| 106 | 32 | 56.1 | 897 | 9 | US-10-821-234-1523 | Sequence 1523, Ap |
| 107 | 32 | 56.1 | 914 | 9 | US-10-467-657-638 | Sequence 638, App |
| 108 | 32 | 56.1 | 1185 | 9 | US-10-877-346-7 | Sequence 7, Appli |
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| 114 | 31 | 54.4 | 116 | 11 | US-11-194-989-1 | Sequence 1, Appli |
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| 116 | 31 | 54.4 | 117 | 11 | US-11-075-184A-2 | Sequence 2, Appli |
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| 119 | 31 | 54.4 | 122 | 9 | US-10-932-334-73 | Sequence 73, Appl |
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| 121 | 31 | 54.4 | 150 | 11 | US-11-096-568A-23851 | Sequence 23851, A |
| 122 | 31 | 54.4 | 155 | 9 | US-10-793-626-344 | Sequence 344, App |
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| 124 | 31 | 54.4 | 174 | 9 | US-10-532-426-1 | Sequence 1, Appli |
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| 150 | 31 | 54.4 | 250 | 11 | US-11-266-444-1022 | Sequence 1022, Ap |
| 151 | 31 | 54.4 | 250 | 11 | US-11-266-444-1158 | Sequence 1158, Ap |
| 152 | 31 | 54.4 | 250 | 11 | US-11-266-444-1203 | Sequence 1203, Ap |
| 153 | 31 | 54.4 | 250 | 11 | US-11-266-444-1222 | Sequence 1222, Ap |
| 154 | 31 | 54.4 | 250 | 11 | US-11-266-444-1228 | Sequence 1228, Ap |
| 155 | 31 | 54.4 | 250 | 11 | US-11-266-444-1715 | Sequence 1715, Ap |
| 156 | 31 | 54.4 | 251 | 11 | US-11-054-515-904 | Sequence 904, App |
| 157 | 31 | 54.4 | 251 | 11 | US-11-054-515-1023 | Sequence 1023, Ap |
| 158 | 31 | 54.4 | 251 | 11 | US-11-054-515-1133 | Sequence 1133, Ap |
| 159 | 31 | 54.4 | 251 | 11 | US-11-054-515-1154 | Sequence 1154, Ap |
| 160 | 31 | 54.4 | 251 | 11 | US-11-054-515-1213 | Sequence 1213, Ap |
| 161 | 31 | 54.4 | 251 | 11 | US-11-054-515-1217 | Sequence 1217, Ap |
| 162 | 31 | 54.4 | 251 | 11 | US-11-054-515-1225 | Sequence 1225, Ap |
| 163 | 31 | 54.4 | 251 | 11 | US-11-054-515-1231 | Sequence 1231, Ap |
| 164 | 31 | 54.4 | 251 | 11 | US-11-054-515-1487 | Sequence 1487, Ap |
| 165 | 31 | 54.4 | 251 | 11 | US-11-054-515-1831 | Sequence 1831, Ap |
| 166 | 31 | 54.4 | 251 | 11 | US-11-266-444-904 | Sequence 904, App |
| 167 | 31 | 54.4 | 251 | 11 | US-11-266-444-1023 | Sequence 1023, Ap |
| 168 | 31 | 54.4 | 251 | 11 | US-11-266-444-1133 | Sequence 1133, Ap |
| 169 | 31 | 54.4 | 251 | 11 | US-11-266-444-1154 | Sequence 1154, Ap |
| 170 | 31 | 54.4 | 251 | 11 | US-11-266-444-1213 | Sequence 1213, Ap |
| 171 | 31 | 54.4 | 251 | 11 | US-11-266-444-1217 | Sequence 1217, Ap |
| 172 | 31 | 54.4 | 251 | 11 | US-11-266-444-1225 | Sequence 1225, Ap |
| 173 | 31 | 54.4 | 251 | 11 | US-11-266-444-1231 | Sequence 1231, Ap |
| 174 | 31 | 54.4 | 251 | 11 | US-11-266-444-1487 | Sequence 1487, Ap |
| 175 | 31 | 54.4 | 251 | 11 | US-11-266-444-1831 | Sequence 1831, Ap |
| 176 | 31 | 54.4 | 252 | 11 | US-11-054-515-1144 | Sequence 1144, Ap |
| 177 | 31 | 54.4 | 252 | 11 | US-11-054-515-1208 | Sequence 1208, Ap |
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| 180 | 31 | 54.4 | 272 | 11 | US-11-096-568A-6787 | Sequence 6787, Ap |
| 181 | 31 | 54.4 | 273 | 11 | US-11-096-568A-22311 | Sequence 22311, A |
| 182 | 31 | 54.4 | 282 | 11 | US-11-087-099-11561 | Sequence 11561, A |
| 183 | 31 | 54.4 | 282 | 11 | US-11-188-298-21727 | Sequence 21727, A |
| 184 | 31 | 54.4 | 292 | 11 | US-11-209-289-6 | Sequence 6, Appli |
| 185 | 31 | 54.4 | 301 | 11 | US-11-096-568A-22310 | Sequence 22310, A |
| 186 | 31 | 54.4 | 302 | 11 | US-11-182-592-6 | Sequence 6, Appli |
| 187 | 31 | 54.4 | 303 | 11 | US-11-096-568A-22309 | Sequence 22309, A |
| 188 | 31 | 54.4 | 307 | 11 | US-11-096-568A-18887 | Sequence 18887, A |
| 189 | 31 | 54.4 | 309 | 11 | US-11-096-568A-18886 | Sequence 18886, A |
| 190 | 31 | 54.4 | 311 | 11 | US-11-179-411-18 | Sequence 18, Appl |
| 191 | 31 | 54.4 | 311 | 11 | US-11-175-766-18 | Sequence 18, Appl |
| 192 | 31 | 54.4 | 319 | 11 | US-11-079-463-9443 | Sequence 9443, Ap |
| 193 | 31 | 54.4 | 332 | 11 | US-11-096-568A-20956 | Sequence 20956, A |
| 194 | 31 | 54.4 | 336 | 11 | US-11-209-289-5 | Sequence 5, Appli |
| 195 | 31 | 54.4 | 353 | 11 | US-11-182-592-4 | Sequence 4, Appli |
| 196 | 31 | 54.4 | 355 | 11 | US-11-087-099-1045 | Sequence 1045, Ap |
| 197 | 31 | 54.4 | 358 | 11 | US-11-079-463-9439 | Sequence 9439, Ap |
| 198 | 31 | 54.4 | 359 | 11 | US-11-209-289-4 | Sequence 4, Appli |
| 199 | 31 | 54.4 | 359 | 11 | US-11-209-289-8 | Sequence 8, Appli |
| 200 | 31 | 54.4 | 359 | 11 | US-11-209-289-23 | Sequence 23, Appl |
| 201 | 31 | 54.4 | 359 | 11 | US-11-209-289-24 | Sequence 24, Appl |
| 202 | 31 | 54.4 | 359 | 11 | US-11-209-289-25 | Sequence 25, Appl |
| 203 | 31 | 54.4 | 359 | 11 | US-11-209-289-26 | Sequence 26, Appl |
| 204 | 31 | 54.4 | 359 | 11 | US-11-209-289-27 | Sequence 27, Appl |
| 205 | 31 | 54.4 | 362 | 9 | US-10-467-657-6880 | Sequence 6880, Ap |
| 206 | 31 | 54.4 | 366 | 11 | US-11-096-568A-6123 | Sequence 6123, Ap |
| 207 | 31 | 54.4 | 367 | 11 | US-11-150-887-44 | Sequence 44, Appl |
| 208 | 31 | 54.4 | 376 | 11 | US-11-096-568A-6122 | Sequence 6122, Ap |
| 209 | 31 | 54.4 | 394 | 9 | US-10-821-234-1626 | Sequence 1626, Ap |
| 210 | 31 | 54.4 | 399 | 11 | US-11-096-568A-6786 | Sequence 6786, Ap |
| 211 | 31 | 54.4 | 412 | 11 | US-11-096-568A-28435 | Sequence 28435, A |
| 212 | 31 | 54.4 | 423 | 11 | US-11-188-298-17396 | Sequence 17396, A |
| 213 | 31 | 54.4 | 424 | 11 | US-11-096-568A-6121 | Sequence 6121, Ap |
| 214 | 31 | 54.4 | 439 | 11 | US-11-072-512-3658 | Sequence 3658, Ap |
| 215 | 31 | 54.4 | 442 | 11 | US-11-194-989-11 | Sequence 11, Appl |
| 216 | 31 | 54.4 | 442 | 11 | US-11-195-207-11 | Sequence 11, Appl |
| 217 | 31 | 54.4 | 448 | 9 | US-10-618-320A-25 | Sequence 25, Appl |
| 218 | 31 | 54.4 | 449 | 11 | US-11-096-568A-28434 | Sequence 28434, A |
| 219 | 31 | 54.4 | 450 | 9 | US-10-618-320A-26 | Sequence 26, Appl |
| 220 | 31 | 54.4 | 455 | 9 | US-10-793-626-718 | Sequence 718, App |
| 221 | 31 | 54.4 | 458 | 9 | US-10-618-320A-1 | Sequence 1, Appli |
| 222 | 31 | 54.4 | 460 | 11 | US-11-096-568A-28433 | Sequence 28433, A |
| 223 | 31 | 54.4 | 462 | 11 | US-11-096-568A-6785 | Sequence 6785, Ap |
| 224 | 31 | 54.4 | 482 | 11 | US-11-087-099-3631 | Sequence 3631, Ap |
| 225 | 31 | 54.4 | 482 | 11 | US-11-087-099-10711 | Sequence 10711, A |
| 226 | 31 | 54.4 | 482 | 11 | US-11-188-298-3415 | Sequence 3415, Ap |
| 227 | 31 | 54.4 | 482 | 11 | US-11-188-298-9900 | Sequence 9900, Ap |
| 228 | 31 | 54.4 | 484 | 11 | US-11-188-298-6985 | Sequence 6985, Ap |
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| 230 | 31 | 54.4 | 509 | 11 | US-11-079-463-5697 | Sequence 5697, Ap |
| 231 | 31 | 54.4 | 525 | 11 | US-11-096-568A-20954 | Sequence 20954, A |
| 232 | 31 | 54.4 | 532 | 9 | US-10-511-989-182 | Sequence 182, App |
| 233 | 31 | 54.4 | 558 | 11 | US-11-096-568A-26137 | Sequence 26137, A |
| 234 | 31 | 54.4 | 559 | 11 | US-11-096-568A-26136 | Sequence 26136, A |
| 235 | 31 | 54.4 | 560 | 11 | US-11-079-463-8548 | Sequence 8548, Ap |
| 236 | 31 | 54.4 | 574 | 11 | US-11-096-568A-26135 | Sequence 26135, A |
| 237 | 31 | 54.4 | 608 | 9 | US-10-873-528-8 | Sequence 8, Appli |
| 238 | 31 | 54.4 | 612 | 11 | US-11-079-463-9127 | Sequence 9127, Ap |
| 239 | 31 | 54.4 | 622 | 9 | US-10-055-877-239 | Sequence 239, App |
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| 244 | 31 | 54.4 | 685 | 11 | US-11-150-883-54 | Sequence 54, Appl |
| 245 | 31 | 54.4 | 699 | 11 | US-11-150-887-43 | Sequence 43, Appl |
| 246 | 31 | 54.4 | 701 | 9 | US-10-055-877-65 | Sequence 65, Appl |
| 247 | 31 | 54.4 | 782 | 11 | US-11-087-099-3762 | Sequence 3762, Ap |
| 248 | 31 | 54.4 | 830 | 11 | US-11-079-463-8070 | Sequence 8070, Ap |
| 249 | 31 | 54.4 | 864 | 11 | US-11-053-100-58 | Sequence 58, Appl |
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| 252 | 31 | 54.4 | 953 | 9 | US-10-966-846-2 | Sequence 2, Appli |
| 253 | 31 | 54.4 | 992 | 11 | US-11-072-512-2473 | Sequence 2473, Ap |
| 254 | 31 | 54.4 | 1188 | 11 | US-11-188-298-20484 | Sequence 20484, A |
| 255 | 31 | 54.4 | 1608 | 9 | US-10-877-346-61 | Sequence 61, Appl |
| 256 | 31 | 54.4 | 1788 | 9 | US-10-877-346-60 | Sequence 60, Appl |
| 257 | 31 | 54.4 | 2641 | 9 | US-10-877-346-63 | Sequence 63, Appl |
| 258 | 31 | 54.4 | 2811 | 9 | US-10-877-346-27 | Sequence 27, Appl |
| 259 | 31 | 54.4 | 2814 | 9 | US-10-877-346-25 | Sequence 25, Appl |
| 260 | 31 | 54.4 | 3685 | 11 | US-11-055-497A-8 | Sequence 8, Appli |
| 261 | 30.5 | 53.5 | 403 | 11 | US-11-096-568A-32637 | Sequence 32637, A |
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| 263 | 30.5 | 53.5 | 566 | 11 | US-11-096-568A-32635 | Sequence 32635, A |
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| 265 | 30 | 52.6 | 10 | 9 | US-10-989-767A-271 | Sequence 271, App |
| 266 | 30 | 52.6 | 10 | 9 | US-10-989-767A-373 | Sequence 373, App |
| 267 | 30 | 52.6 | 10 | 9 | US-10-530-061-541 | Sequence 541, App |
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| 272 | 30 | 52.6 | 117 | 11 | US-11-075-184A-10 | Sequence 10, Appl |
| 273 | 30 | 52.6 | 119 | 9 | US-10-502-145-25 | Sequence 25, Appl |
| 274 | 30 | 52.6 | 119 | 11 | US-11-221-900-10 | Sequence 10, Appl |
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| 276 | 30 | 52.6 | 119 | 11 | US-11-221-900-13 | Sequence 13, Appl |
| 277 | 30 | 52.6 | 119 | 11 | US-11-221-900-14 | Sequence 14, Appl |
| 278 | 30 | 52.6 | 119 | 11 | US-11-284-260-11 | Sequence 11, Appl |
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| 284 | 30 | 52.6 | 119 | 11 | US-11-284-260-17 | Sequence 17, Appl |
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| 291 | 30 | 52.6 | 119 | 11 | US-11-284-260-24 | Sequence 24, Appl |
| 292 | 30 | 52.6 | 119 | 11 | US-11-284-260-30 | Sequence 30, Appl |
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| 306 | 30 | 52.6 | 119 | 11 | US-11-284-261-24 | Sequence 24, Appl |
| 307 | 30 | 52.6 | 119 | 11 | US-11-284-261-30 | Sequence 30, Appl |
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| 309 | 30 | 52.6 | 139 | 11 | US-11-087-099-10117 | Sequence 10117, A |
| 310 | 30 | 52.6 | 144 | 11 | US-11-203-526-30 | Sequence 30, Appl |
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| 312 | 30 | 52.6 | 146 | 11 | US-11-096-568A-26994 | Sequence 26994, A |
| 313 | 30 | 52.6 | 168 | 11 | US-11-079-463-6528 | Sequence 6528, Ap |
| 314 | 30 | 52.6 | 193 | 8 | US-10-505-928-215 | Sequence 215, App |
| 315 | 30 | 52.6 | 206 | 11 | US-11-232-805-69 | Sequence 69, Appl |
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| 317 | 30 | 52.6 | 236 | 11 | US-11-221-900-2 | Sequence 2, Appli |
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| 319 | 30 | 52.6 | 243 | 11 | US-11-266-444-1533 | Sequence 1533, Ap |
| 320 | 30 | 52.6 | 244 | 9 | US-10-477-507A-4 | Sequence 4, Appli |
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| 323 | 30 | 52.6 | 297 | 11 | US-11-096-568A-4553 | Sequence 4553, Ap |
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| 325 | 30 | 52.6 | 309 | 11 | US-11-087-099-7821 | Sequence 7821, Ap |
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| 329 | 30 | 52.6 | 330 | 9 | US-10-453-372-572 | Sequence 572, App |
| 330 | 30 | 52.6 | 334 | 11 | US-11-087-099-7131 | Sequence 7131, Ap |
| 331 | 30 | 52.6 | 347 | 11 | US-11-098-686-10954 | Sequence 10954, A |
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| 335 | 30 | 52.6 | 373 | 11 | US-11-096-568A-28149 | Sequence 28149, A |
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| 337 | 30 | 52.6 | 387 | 11 | US-11-137-465-57 | Sequence 57, Appl |
| 338 | 30 | 52.6 | 389 | 11 | US-11-087-099-393 | Sequence 393, App |
| 339 | 30 | 52.6 | 400 | 9 | US-10-485-517-317 | Sequence 317, App |
| 340 | 30 | 52.6 | 408 | 11 | US-11-096-568A-16047 | Sequence 16047, A |
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| 343 | 30 | 52.6 | 422 | 11 | US-11-172-740-1644 | Sequence 1644, Ap |
| 344 | 30 | 52.6 | 425 | 11 | US-11-172-740-1643 | Sequence 1643, Ap |
| 345 | 30 | 52.6 | 434 | 11 | US-11-172-740-1642 | Sequence 1642, Ap |
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| 347 | 30 | 52.6 | 456 | 11 | US-11-096-568A-16046 | Sequence 16046, A |
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| 349 | 30 | 52.6 | 462 | 11 | US-11-232-805-44 | Sequence 44, Appl |
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| 351 | 30 | 52.6 | 468 | 11 | US-11-284-261-7 | Sequence 7, Appli |
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| 353 | 30 | 52.6 | 499 | 11 | US-11-188-298-519 | Sequence 519, App |
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| 355 | 30 | 52.6 | 538 | 9 | US-10-501-841-117 | Sequence 117, App |
| 356 | 30 | 52.6 | 543 | 11 | US-11-087-099-6758 | Sequence 6758, Ap |
| 357 | 30 | 52.6 | 543 | 11 | US-11-188-298-6162 | Sequence 6162, Ap |
| 358 | 30 | 52.6 | 574 | 11 | US-11-079-463-8012 | Sequence 8012, Ap |
| 359 | 30 | 52.6 | 580 | 11 | US-11-087-099-3193 | Sequence 3193, Ap |
| 360 | 30 | 52.6 | 580 | 11 | US-11-188-298-3022 | Sequence 3022, Ap |
| 361 | 30 | 52.6 | 591 | 9 | US-10-784-004-456 | Sequence 456, App |
| 362 | 30 | 52.6 | 596 | 9 | US-10-784-004-773 | Sequence 773, App |
| 363 | 30 | 52.6 | 596 | 11 | US-11-063-343-28 | Sequence 28, Appl |
| 364 | 30 | 52.6 | 596 | 11 | US-11-203-526-28 | Sequence 28, Appl |
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| 367 | 30 | 52.6 | 629 | 9 | US-10-453-372-578 | Sequence 578, App |
| 368 | 30 | 52.6 | 642 | 9 | US-10-453-372-568 | Sequence 568, App |
| 369 | 30 | 52.6 | 664 | 11 | US-11-045-004-794 | Sequence 794, App |
| 370 | 30 | 52.6 | 666 | 11 | US-11-188-298-21624 | Sequence 21624, A |
| 371 | 30 | 52.6 | 772 | 9 | US-10-858-730-77 | Sequence 77, Appl |
| 372 | 30 | 52.6 | 798 | 9 | US-10-453-372-570 | Sequence 570, App |
| 373 | 30 | 52.6 | 798 | 9 | US-10-877-346-28 | Sequence 28, Appl |
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| 375 | 30 | 52.6 | 811 | 9 | US-10-453-372-580 | Sequence 580, App |
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| 377 | 30 | 52.6 | 837 | 9 | US-10-453-372-594 | Sequence 594, App |
| 378 | 30 | 52.6 | 837 | 9 | US-10-877-346-5 | Sequence 5, Appli |
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| 380 | 30 | 52.6 | 841 | 9 | US-10-453-372-592 | Sequence 592, App |
| 381 | 30 | 52.6 | 841 | 9 | US-10-453-372-602 | Sequence 602, App |
| 382 | 30 | 52.6 | 841 | 9 | US-10-877-346-2 | Sequence 2, Appli |
| 383 | 30 | 52.6 | 841 | 9 | US-10-989-767A-657 | Sequence 657, App |
| 384 | 30 | 52.6 | 961 | 11 | US-11-113-424-35 | Sequence 35, Appl |
| 385 | 30 | 52.6 | 964 | 11 | US-11-137-465-58 | Sequence 58, Appl |
| 386 | 30 | 52.6 | 965 | 11 | US-11-113-424-2 | Sequence 2, Appli |

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| 387 | 30 | 52.6 | 965 | 11 | US-11-147-047-51 | Sequence 51, Appl |
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| 389 | 30 | 52.6 | 1194 | 11 | US-11-000-463-249 | Sequence 249, App |
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| 391 | 30 | 52.6 | 1221 | 11 | US-11-096-568A-29337 | Sequence 29337, A |
| 392 | 30 | 52.6 | 1222 | 11 | US-11-096-568A-29241 | Sequence 29241, A |
| 393 | 30 | 52.6 | 1229 | 11 | US-11-096-568A-29336 | Sequence 29336, A |
| 394 | 30 | 52.6 | 1247 | 11 | US-11-096-568A-29240 | Sequence 29240, A |
| 395 | 30 | 52.6 | 1254 | 11 | US-11-096-568A-29335 | Sequence 29335, A |
| 396 | 30 | 52.6 | 1508 | 11 | US-11-043-889-47 | Sequence 47, Appl |
| 397 | 30 | 52.6 | 1588 | 11 | US-11-043-889-37 | Sequence 37, Appl |
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| 401 | 29.5 | 51.8 | 326 | 11 | US-11-087-099-3028 | Sequence 3028, Ap |
| 402 | 29.5 | 51.8 | 326 | 11 | US-11-087-099-8258 | Sequence 8258, Ap |
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| 404 | 29 | 50.9 | 30 | 9 | US-10-895-064-657 | Sequence 657, App |
| 405 | 29 | 50.9 | 30 | 11 | US-11-129-741-657 | Sequence 657, App |
| 406 | 29 | 50.9 | 33 | 11 | US-11-121-301-51 | Sequence 51, Appl |
| 407 | 29 | 50.9 | 53 | 11 | US-11-138-949-12 | Sequence 12, Appl |
| 408 | 29 | 50.9 | 62 | 11 | US-11-079-463-7185 | Sequence 7185, Ap |
| 409 | 29 | 50.9 | 67 | 9 | US-10-986-501-141 | Sequence 141, App |
| 410 | 29 | 50.9 | 95 | 11 | US-11-084-554-215 | Sequence 215, App |
| 411 | 29 | 50.9 | 95 | 11 | US-11-136-250-215 | Sequence 215, App |
| 412 | 29 | 50.9 | 96 | 9 | US-10-467-657-320 | Sequence 320, App |
| 413 | 29 | 50.9 | 96 | 11 | US-11-084-554-217 | Sequence 217, App |
| 414 | 29 | 50.9 | 96 | 11 | US-11-136-250-217 | Sequence 217, App |
| 415 | 29 | 50.9 | 106 | 9 | US-10-520-224-1 | Sequence 1, Appli |
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| 417 | 29 | 50.9 | 108 | 11 | US-11-064-174-66 | Sequence 66, Appl |
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| 419 | 29 | 50.9 | 115 | 11 | US-11-126-978-37 | Sequence 37, Appl |
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| 436 | 29 | 50.9 | 251 | 11 | US-11-266-444-945 | Sequence 945, App |
| 437 | 29 | 50.9 | 257 | 11 | US-11-087-099-328 | Sequence 328, App |
| 438 | 29 | 50.9 | 281 | 11 | US-11-172-740-2047 | Sequence 2047, Ap |
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| 458 | 29 | 50.9 | 370 | 11 | US-11-228-923-15 | Sequence 15, Appl |
| 459 | 29 | 50.9 | 370 | 11 | US-11-228-875-15 | Sequence 15, Appl |
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| 463 | 29 | 50.9 | 378 | 11 | US-11-228-923-88 | Sequence 88, Appl |
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| 476 | 29 | 50.9 | 400 | 11 | US-11-228-875-2 | Sequence 2, Appli |
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| 479 | 29 | 50.9 | 404 | 11 | US-11-188-298-7789 | Sequence 7789, Ap |
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| 489 | 29 | 50.9 | 414 | 11 | US-11-228-923-89 | Sequence 89, Appl |
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| 500 | 29 | 50.9 | 423 | 9 | US-10-195-888-180 | Sequence 180, App |
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| 505 | 29 | 50.9 | 436 | 11 | US-11-080-991-102 | Sequence 102, App |
| 506 | 29 | 50.9 | 443 | 9 | US-10-131-826A-318 | Sequence 318, App |
| 507 | 29 | 50.9 | 443 | 9 | US-10-973-115B-318 | Sequence 318, App |
| 508 | 29 | 50.9 | 443 | 9 | US-10-137-873A-318 | Sequence 318, App |
| 509 | 29 | 50.9 | 443 | 9 | US-10-152-370-318 | Sequence 318, App |
| 510 | 29 | 50.9 | 443 | 11 | US-11-065-695-16 | Sequence 16, Appl |
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| 512 | 29 | 50.9 | 443 | 11 | US-11-290-153-318 | Sequence 318, App |
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| 514 | 29 | 50.9 | 446 | 11 | US-11-228-923-92 | Sequence 92, Appl |
| 515 | 29 | 50.9 | 446 | 11 | US-11-228-875-92 | Sequence 92, Appl |
| 516 | 29 | 50.9 | 449 | 11 | US-11-096-568A-9413 | Sequence 9413, Ap |
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| 518 | 29 | 50.9 | 467 | 11 | US-11-082-389-334 | Sequence 334, App |
| 519 | 29 | 50.9 | 470 | 11 | US-11-229-371-91 | Sequence 91, Appl |
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| 523 | 29 | 50.9 | 482 | 11 | US-11-229-371-177 | Sequence 177, App |
| 524 | 29 | 50.9 | 482 | 11 | US-11-228-923-87 | Sequence 87, Appl |
| 525 | 29 | 50.9 | 482 | 11 | US-11-228-923-177 | Sequence 177, App |
| 526 | 29 | 50.9 | 482 | 11 | US-11-228-875-87 | Sequence 87, Appl |
| 527 | 29 | 50.9 | 482 | 11 | US-11-228-875-177 | Sequence 177, App |
| 528 | 29 | 50.9 | 482 | 11 | US-11-188-298-18355 | Sequence 18355, A |
| 529 | 29 | 50.9 | 484 | 11 | US-11-096-568A-34437 | Sequence 34437, A |
| 530 | 29 | 50.9 | 485 | 11 | US-11-096-568A-26552 | Sequence 26552, A |
| 531 | 29 | 50.9 | 489 | 11 | US-11-188-298-21094 | Sequence 21094, A |
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| 534 | 29 | 50.9 | 508 | 11 | US-11-079-463-6229 | Sequence 6229, Ap |
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| 536 | 29 | 50.9 | 508 | 11 | US-11-188-298-19311 | Sequence 19311, A |
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| 549 | 29 | 50.9 | 818 | 11 | US-11-037-243-111 | Sequence 111, App |
| 550 | 29 | 50.9 | 902 | 11 | US-11-182-016-36 | Sequence 36, Appl |
| 551 | 29 | 50.9 | 1123 | 11 | US-11-087-099-4889 | Sequence 4889, Ap |
| 552 | 29 | 50.9 | 1123 | 11 | US-11-087-099-5347 | Sequence 5347, Ap |
| 553 | 29 | 50.9 | 1123 | 11 | US-11-087-099-9833 | Sequence 9833, Ap |
| 554 | 29 | 50.9 | 1124 | 11 | US-11-087-099-4855 | Sequence 4855, Ap |
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| 558 | 29 | 50.9 | 1463 | 9 | US-10-971-982-3 | Sequence 3, Appli |
| 559 | 29 | 50.9 | 1620 | 9 | US-10-055-877-213 | Sequence 213, App |
| 560 | 29 | 50.9 | 1664 | 9 | US-10-055-877-212 | Sequence 212, App |
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| 575 | 28 | 49.1 | 13 | 11 | US-11-153-143A-305 | Sequence 305, App |
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| 582 | 28 | 49.1 | 95 | 11 | US-11-084-554-133 | Sequence 133, App |
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| 586 | 28 | 49.1 | 95 | 11 | US-11-136-250-133 | Sequence 133, App |
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| 592 | 28 | 49.1 | 101 | 11 | US-11-084-554-120 | Sequence 120, App |
| 593 | 28 | 49.1 | 101 | 11 | US-11-004-590-94 | Sequence 94, Appl |
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| 609 | 28 | 49.1 | 118 | 9 | US-10-467-657-8112 | Sequence 8112, Ap |
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| 612 | 28 | 49.1 | 124 | 11 | US-11-096-568A-2221 | Sequence 2221, Ap |
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| 616 | 28 | 49.1 | 139 | 9 | US-10-533-811-47 | Sequence 47, Appl |
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| 618 | 28 | 49.1 | 139 | 11 | US-11-128-900-96 | Sequence 96, Appl |
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| 624 | 28 | 49.1 | 195 | 11 | US-11-188-298-21689 | Sequence 21689, A |
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| 631 | 28 | 49.1 | 228 | 11 | US-11-052-554A-366 | Sequence 366, App |
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| 637 | 28 | 49.1 | 244 | 11 | US-11-266-444-1924 | Sequence 1924, Ap |
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| 639 | 28 | 49.1 | 251 | 11 | US-11-266-444-1585 | Sequence 1585, Ap |
| 640 | 28 | 49.1 | 254 | 11 | US-11-054-515-1226 | Sequence 1226, Ap |
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| 655 | 28 | 49.1 | 328 | 11 | US-11-087-099-2862 | Sequence 2862, Ap |
| 656 | 28 | 49.1 | 328 | 11 | US-11-188-298-2720 | Sequence 2720, Ap |
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| 660 | 28 | 49.1 | 344 | 11 | US-11-019-711-44 | Sequence 44, Appl |
| 661 | 28 | 49.1 | 348 | 11 | US-11-096-568A-16451 | Sequence 16451, A |
| 662 | 28 | 49.1 | 350 | 11 | US-11-264-096-2215 | Sequence 2215, Ap |
| 663 | 28 | 49.1 | 350 | 11 | US-11-264-096-2216 | Sequence 2216, Ap |
| 664 | 28 | 49.1 | 355 | 11 | US-11-096-568A-7232 | Sequence 7232, Ap |
| 665 | 28 | 49.1 | 356 | 11 | US-11-087-099-1946 | Sequence 1946, Ap |
| 666 | 28 | 49.1 | 356 | 11 | US-11-188-298-5172 | Sequence 5172, Ap |
| 667 | 28 | 49.1 | 357 | 11 | US-11-019-711-46 | Sequence 46, Appl |
| 668 | 28 | 49.1 | 359 | 9 | US-10-055-877-272 | Sequence 272, App |
| 669 | 28 | 49.1 | 368 | 11 | US-11-072-512-3187 | Sequence 3187, Ap |
| 670 | 28 | 49.1 | 379 | 11 | US-11-096-568A-16450 | Sequence 16450, A |
| 671 | 28 | 49.1 | 386 | 11 | US-11-098-686-10767 | Sequence 10767, A |
| 672 | 28 | 49.1 | 386 | 11 | US-11-188-298-14846 | Sequence 14846, A |
| 673 | 28 | 49.1 | 391 | 11 | US-11-087-099-4197 | Sequence 4197, Ap |
| 674 | 28 | 49.1 | 396 | 11 | US-11-087-099-9889 | Sequence 9889, Ap |
| 675 | 28 | 49.1 | 397 | 11 | US-11-087-099-1848 | Sequence 1848, Ap |
| 676 | 28 | 49.1 | 401 | 11 | US-11-079-463-8006 | Sequence 8006, Ap |
| 677 | 28 | 49.1 | 402 | 11 | US-11-183-664-94 | Sequence 94, Appl |
| 678 | 28 | 49.1 | 406 | 11 | US-11-079-463-5667 | Sequence 5667, Ap |

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| 679 | 28 | 49.1 | 417 | 11 | US-11-186-284-107 | Sequence 107, App |
| 680 | 28 | 49.1 | 417 | 11 | US-11-043-806-385 | Sequence 385, App |
| 681 | 28 | 49.1 | 423 | 11 | US-11-079-463-9021 | Sequence 9021, Ap |
| 682 | 28 | 49.1 | 428 | 11 | US-11-087-099-1255 | Sequence 1255, Ap |
| 683 | 28 | 49.1 | 430 | 11 | US-11-172-740-1216 | Sequence 1216, Ap |
| 684 | 28 | 49.1 | 452 | 11 | US-11-087-099-6588 | Sequence 6588, Ap |
| 685 | 28 | 49.1 | 452 | 11 | US-11-096-568A-11587 | Sequence 11587, A |
| 686 | 28 | 49.1 | 456 | 9 | US-10-860-501-5 | Sequence 5, Appli |
| 687 | 28 | 49.1 | 456 | 9 | US-10-956-882-5 | Sequence 5, Appli |
| 688 | 28 | 49.1 | 456 | 11 | US-11-079-463-8841 | Sequence 8841, Ap |
| 689 | 28 | 49.1 | 465 | 11 | US-11-045-004-1332 | Sequence 1332, Ap |
| 690 | 28 | 49.1 | 475 | 11 | US-11-096-568A-11586 | Sequence 11586, A |
| 691 | 28 | 49.1 | 486 | 9 | US-10-467-657-950 | Sequence 950, App |
| 692 | 28 | 49.1 | 496 | 11 | US-11-188-298-17398 | Sequence 17398, A |
| 693 | 28 | 49.1 | 500 | 9 | US-10-860-501-4 | Sequence 4, Appli |
| 694 | 28 | 49.1 | 500 | 9 | US-10-956-882-4 | Sequence 4, Appli |
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| 696 | 28 | 49.1 | 509 | 9 | US-10-195-883-52 | Sequence 52, Appl |
| 697 | 28 | 49.1 | 509 | 9 | US-10-195-888-52 | Sequence 52, Appl |
| 698 | 28 | 49.1 | 509 | 9 | US-10-195-889-52 | Sequence 52, Appl |
| 699 | 28 | 49.1 | 509 | 11 | US-11-124-327-2 | Sequence 2, Appli |
| 700 | 28 | 49.1 | 520 | 9 | US-10-878-556A-38 | Sequence 38, Appl |
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| 702 | 28 | 49.1 | 525 | 11 | US-11-188-298-870 | Sequence 870, App |
| 703 | 28 | 49.1 | 530 | 11 | US-11-188-298-18599 | Sequence 18599, A |
| 704 | 28 | 49.1 | 532 | 9 | US-10-860-501-7 | Sequence 7, Appli |
| 705 | 28 | 49.1 | 532 | 9 | US-10-956-882-7 | Sequence 7, Appli |
| 706 | 28 | 49.1 | 536 | 9 | US-10-453-372-6 | Sequence 6, Appli |
| 707 | 28 | 49.1 | 536 | 9 | US-10-453-372-22 | Sequence 22, Appl |
| 708 | 28 | 49.1 | 536 | 9 | US-10-453-372-24 | Sequence 24, Appl |
| 709 | 28 | 49.1 | 536 | 9 | US-10-453-372-26 | Sequence 26, Appl |
| 710 | 28 | 49.1 | 536 | 9 | US-10-453-372-28 | Sequence 28, Appl |
| 711 | 28 | 49.1 | 536 | 9 | US-10-453-372-30 | Sequence 30, Appl |
| 712 | 28 | 49.1 | 542 | 9 | US-10-453-372-10 | Sequence 10, Appl |
| 713 | 28 | 49.1 | 550 | 11 | US-11-188-298-7256 | Sequence 7256, Ap |
| 714 | 28 | 49.1 | 550 | 11 | US-11-188-298-15289 | Sequence 15289, A |
| 715 | 28 | 49.1 | 552 | 9 | US-10-453-372-14 | Sequence 14, Appl |
| 716 | 28 | 49.1 | 560 | 11 | US-11-080-991-62 | Sequence 62, Appl |
| 717 | 28 | 49.1 | 567 | 11 | US-11-096-568A-2432 | Sequence 2432, Ap |
| 718 | 28 | 49.1 | 572 | 9 | US-10-453-372-16 | Sequence 16, Appl |
| 719 | 28 | 49.1 | 580 | 11 | US-11-188-298-7307 | Sequence 7307, Ap |
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| 721 | 28 | 49.1 | 588 | 9 | US-10-453-372-12 | Sequence 12, Appl |
| 722 | 28 | 49.1 | 616 | 11 | US-11-188-298-6543 | Sequence 6543, Ap |
| 723 | 28 | 49.1 | 616 | 11 | US-11-188-298-13709 | Sequence 13709, A |
| 724 | 28 | 49.1 | 667 | 9 | US-10-793-626-2416 | Sequence 2416, Ap |
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| 729 | 28 | 49.1 | 693 | 11 | US-11-098-686-11343 | Sequence 11343, A |
| 730 | 28 | 49.1 | 694 | 10 | US-11-302-678-26 | Sequence 26, Appl |
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| 732 | 28 | 49.1 | 711 | 11 | US-11-087-099-6220 | Sequence 6220, Ap |
| 733 | 28 | 49.1 | 711 | 11 | US-11-087-099-8049 | Sequence 8049, Ap |
| 734 | 28 | 49.1 | 711 | 11 | US-11-079-463-6170 | Sequence 6170, Ap |
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| 736 | 28 | 49.1 | 752 | 11 | US-11-188-298-1988 | Sequence 1988, Ap |
| 737 | 28 | 49.1 | 752 | 11 | US-11-188-298-12440 | Sequence 12440, A |
| 738 | 28 | 49.1 | 758 | 11 | US-11-245-400-30 | Sequence 30, Appl |
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| 741 | 28 | 49.1 | 882 | 11 | US-11-169-041-137 | Sequence 137, App |
| 742 | 28 | 49.1 | 892 | 11 | US-11-087-099-6457 | Sequence 6457, Ap |
| 743 | 28 | 49.1 | 992 | 11 | US-11-098-686-10761 | Sequence 10761, A |
| 744 | 28 | 49.1 | 1058 | 11 | US-11-096-568A-27717 | Sequence 27717, A |
| 745 | 28 | 49.1 | 1061 | 11 | US-11-096-568A-27716 | Sequence 27716, A |
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| 748 | 28 | 49.1 | 1104 | 9 | US-10-330-773-794 | Sequence 794, App |
| 749 | 28 | 49.1 | 1128 | 11 | US-11-037-243-97 | Sequence 97, Appl |
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| 751 | 28 | 49.1 | 1250 | 9 | US-10-330-773-792 | Sequence 792, App |
| 752 | 28 | 49.1 | 1335 | 11 | US-11-079-463-7531 | Sequence 7531, Ap |
| 753 | 28 | 49.1 | 1425 | 9 | US-10-330-773-797 | Sequence 797, App |
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| 756 | 28 | 49.1 | 1980 | 10 | US-11-263-326-134 | Sequence 134, App |
| 757 | 28 | 49.1 | 2048 | 11 | US-11-285-818-12 | Sequence 12, Appl |
| 758 | 28 | 49.1 | 2057 | 11 | US-11-285-818-10 | Sequence 10, Appl |
| 759 | 28 | 49.1 | 2058 | 11 | US-11-072-175-188 | Sequence 188, App |
| 760 | 28 | 49.1 | 2058 | 11 | US-11-285-818-17 | Sequence 17, Appl |
| 761 | 28 | 49.1 | 2362 | 11 | US-11-096-568A-31778 | Sequence 31778, A |
| 762 | 28 | 49.1 | 2433 | 11 | US-11-096-568A-31777 | Sequence 31777, A |
| 763 | 28 | 49.1 | 2471 | 11 | US-11-050-346-68 | Sequence 68, Appl |
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| 767 | 27.5 | 48.2 | 18 | 9 | US-10-939-890-746 | Sequence 746, App |
| 768 | 27.5 | 48.2 | 18 | 9 | US-10-939-890-747 | Sequence 747, App |
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| 770 | 27.5 | 48.2 | 19 | 9 | US-10-939-890-493 | Sequence 493, App |
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| 773 | 27.5 | 48.2 | 19 | 9 | US-10-939-890-842 | Sequence 842, App |
| 774 | 27.5 | 48.2 | 19 | 9 | US-10-939-890-870 | Sequence 870, App |
| 775 | 27.5 | 48.2 | 20 | 9 | US-10-939-890-625 | Sequence 625, App |
| 776 | 27.5 | 48.2 | 20 | 9 | US-10-939-890-841 | Sequence 841, App |
| 777 | 27.5 | 48.2 | 21 | 9 | US-10-939-890-510 | Sequence 510, App |
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| 782 | 27.5 | 48.2 | 21 | 9 | US-10-939-890-744 | Sequence 744, App |
| 783 | 27.5 | 48.2 | 21 | 9 | US-10-939-890-750 | Sequence 750, App |
| 784 | 27.5 | 48.2 | 21 | 9 | US-10-939-890-754 | Sequence 754, App |
| 785 | 27.5 | 48.2 | 21 | 9 | US-10-939-890-756 | Sequence 756, App |
| 786 | 27.5 | 48.2 | 21 | 9 | US-10-939-890-758 | Sequence 758, App |
| 787 | 27.5 | 48.2 | 21 | 9 | US-10-939-890-760 | Sequence 760, App |
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| 792 | 27.5 | 48.2 | 21 | 9 | US-10-939-890-780 | Sequence 780, App |
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| 802 | 27.5 | 48.2 | 22 | 9 | US-10-939-890-387 | Sequence 387, App |
| 803 | 27.5 | 48.2 | 22 | 9 | US-10-939-890-388 | Sequence 388, App |
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| 805 | 27.5 | 48.2 | 22 | 9 | US-10-939-890-390 | Sequence 390, App |
| 806 | 27.5 | 48.2 | 22 | 9 | US-10-939-890-391 | Sequence 391, App |
| 807 | 27.5 | 48.2 | 22 | 9 | US-10-939-890-392 | Sequence 392, App |
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| 822 | 27.5 | 48.2 | 22 | 9 | US-10-939-890-628 | Sequence 628, App |
| 823 | 27.5 | 48.2 | 22 | 9 | US-10-939-890-632 | Sequence 632, App |
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| 852 | 27.5 | 48.2 | 23 | 9 | US-10-939-890-636 | Sequence 636, App |
| 853 | 27.5 | 48.2 | 23 | 9 | US-10-939-890-644 | Sequence 644, App |
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| 897 | 27.5 | 48.2 | 891 | 11 | US-11-182-016-38 | Sequence 38, Appl |
| 898 | 27 | 47.4 | 6 | 11 | US-11-004-399-1343 | Sequence 1343, Ap |
| 899 | 27 | 47.4 | 17 | 11 | US-11-152-974A-180 | Sequence 180, App |
| 900 | 27 | 47.4 | 17 | 11 | US-11-153-143A-180 | Sequence 180, App |
| 901 | 27 | 47.4 | 22 | 11 | US-11-004-399-1721 | Sequence 1721, Ap |
| 902 | 27 | 47.4 | 24 | 9 | US-10-973-977-37 | Sequence 37, Appl |
| 903 | 27 | 47.4 | 31 | 11 | US-11-226-657-188 | Sequence 188, App |
| 904 | 27 | 47.4 | 37 | 9 | US-10-475-204-10 | Sequence 10, Appl |
| 905 | 27 | 47.4 | 37 | 9 | US-10-895-064-677 | Sequence 677, App |
| 906 | 27 | 47.4 | 37 | 11 | US-11-069-642-147 | Sequence 147, App |
| 907 | 27 | 47.4 | 37 | 11 | US-11-006-031-18 | Sequence 18, Appl |
| 908 | 27 | 47.4 | 37 | 11 | US-11-194-110-18 | Sequence 18, Appl |
| 909 | 27 | 47.4 | 37 | 11 | US-11-129-741-677 | Sequence 677, App |
| 910 | 27 | 47.4 | 54 | 11 | US-11-096-568A-8318 | Sequence 8318, Ap |
| 911 | 27 | 47.4 | 58 | 11 | US-11-123-896-228 | Sequence 228, App |
| 912 | 27 | 47.4 | 58 | 11 | US-11-123-896-231 | Sequence 231, App |
| 913 | 27 | 47.4 | 58 | 11 | US-11-123-896-234 | Sequence 234, App |
| 914 | 27 | 47.4 | 64 | 11 | US-11-264-096-931 | Sequence 931, App |
| 915 | 27 | 47.4 | 67 | 11 | US-11-226-657-187 | Sequence 187, App |
| 916 | 27 | 47.4 | 67 | 11 | US-11-264-096-880 | Sequence 880, App |
| 917 | 27 | 47.4 | 70 | 9 | US-10-467-657-4268 | Sequence 4268, Ap |
| 918 | 27 | 47.4 | 73 | 11 | US-11-144-947-579 | Sequence 579, App |
| 919 | 27 | 47.4 | 76 | 11 | US-11-004-399-2082 | Sequence 2082, Ap |
| 920 | 27 | 47.4 | 83 | 11 | US-11-096-568A-14153 | Sequence 14153, A |
| 921 | 27 | 47.4 | 86 | 11 | US-11-123-896-227 | Sequence 227, App |
| 922 | 27 | 47.4 | 86 | 11 | US-11-123-896-230 | Sequence 230, App |
| 923 | 27 | 47.4 | 86 | 11 | US-11-123-896-233 | Sequence 233, App |
| 924 | 27 | 47.4 | 86 | 11 | US-11-264-096-881 | Sequence 881, App |
| 925 | 27 | 47.4 | 88 | 11 | US-11-022-477-2 | Sequence 2, Appli |
| 926 | 27 | 47.4 | 89 | 11 | US-11-096-568A-26843 | Sequence 26843, A |
| 927 | 27 | 47.4 | 94 | 9 | US-10-821-234-1066 | Sequence 1066, Ap |
| 928 | 27 | 47.4 | 95 | 9 | US-10-993-543-274 | Sequence 274, App |
| 929 | 27 | 47.4 | 95 | 9 | US-10-496-349B-54 | Sequence 54, Appl |
| 930 | 27 | 47.4 | 95 | 10 | US-11-221-902-71 | Sequence 71, Appl |
| 931 | 27 | 47.4 | 95 | 10 | US-11-221-902-72 | Sequence 72, Appl |
| 932 | 27 | 47.4 | 95 | 10 | US-11-239-308-29 | Sequence 29, Appl |
| 933 | 27 | 47.4 | 95 | 11 | US-11-054-669-54 | Sequence 54, Appl |
| 934 | 27 | 47.4 | 95 | 11 | US-11-054-669-55 | Sequence 55, Appl |
| 935 | 27 | 47.4 | 95 | 11 | US-11-084-554-143 | Sequence 143, App |
| 936 | 27 | 47.4 | 95 | 11 | US-11-084-554-146 | Sequence 146, App |
| 937 | 27 | 47.4 | 95 | 11 | US-11-061-848-36 | Sequence 36, Appl |
| 938 | 27 | 47.4 | 95 | 11 | US-11-061-848-37 | Sequence 37, Appl |
| 939 | 27 | 47.4 | 95 | 11 | US-11-061-848-63 | Sequence 63, Appl |
| 940 | 27 | 47.4 | 95 | 11 | US-11-128-900-94 | Sequence 94, Appl |
| 941 | 27 | 47.4 | 95 | 11 | US-11-004-590-72 | Sequence 72, Appl |
| 942 | 27 | 47.4 | 95 | 11 | US-11-004-590-73 | Sequence 73, Appl |
| 943 | 27 | 47.4 | 95 | 11 | US-11-136-250-143 | Sequence 143, App |
| 944 | 27 | 47.4 | 95 | 11 | US-11-136-250-146 | Sequence 146, App |
| 945 | 27 | 47.4 | 96 | 11 | US-11-144-248-42 | Sequence 42, Appl |
| 946 | 27 | 47.4 | 96 | 11 | US-11-144-222-42 | Sequence 42, Appl |
| 947 | 27 | 47.4 | 96 | 11 | US-11-182-343-42 | Sequence 42, Appl |
| 948 | 27 | 47.4 | 98 | 11 | US-11-084-554-219 | Sequence 219, App |
| 949 | 27 | 47.4 | 98 | 11 | US-11-136-250-219 | Sequence 219, App |
| 950 | 27 | 47.4 | 101 | 11 | US-11-049-536-10 | Sequence 10, Appl |
| 951 | 27 | 47.4 | 101 | 11 | US-11-199-739-10 | Sequence 10, Appl |
| 952 | 27 | 47.4 | 105 | 11 | US-11-155-775-44 | Sequence 44, Appl |
| 953 | 27 | 47.4 | 105 | 11 | US-11-155-775-52 | Sequence 52, Appl |
| 954 | 27 | 47.4 | 106 | 11 | US-11-064-174-165 | Sequence 165, App |
| 955 | 27 | 47.4 | 107 | 9 | US-10-507-662-63 | Sequence 63, Appl |
| 956 | 27 | 47.4 | 107 | 11 | US-11-064-174-33 | Sequence 33, Appl |
| 957 | 27 | 47.4 | 107 | 11 | US-11-064-174-34 | Sequence 34, Appl |
| 958 | 27 | 47.4 | 107 | 11 | US-11-064-174-36 | Sequence 36, Appl |
| 959 | 27 | 47.4 | 107 | 11 | US-11-064-174-37 | Sequence 37, Appl |
| 960 | 27 | 47.4 | 107 | 11 | US-11-064-174-38 | Sequence 38, Appl |
| 961 | 27 | 47.4 | 107 | 11 | US-11-064-174-39 | Sequence 39, Appl |
| 962 | 27 | 47.4 | 107 | 11 | US-11-064-174-156 | Sequence 156, App |
| 963 | 27 | 47.4 | 107 | 11 | US-11-064-174-158 | Sequence 158, App |
| 964 | 27 | 47.4 | 107 | 11 | US-11-064-174-168 | Sequence 168, App |
| 965 | 27 | 47.4 | 107 | 11 | US-11-064-174-175 | Sequence 175, App |
| 966 | 27 | 47.4 | 107 | 11 | US-11-064-174-176 | Sequence 176, App |
| 967 | 27 | 47.4 | 107 | 11 | US-11-064-174-179 | Sequence 179, App |
| 968 | 27 | 47.4 | 107 | 11 | US-11-049-536-428 | Sequence 428, App |
| 969 | 27 | 47.4 | 107 | 11 | US-11-199-739-428 | Sequence 428, App |
| 970 | 27 | 47.4 | 108 | 9 | US-10-925-366A-3 | Sequence 3, Appli |

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| 971 | 27 | 47.4 | 108 | 9 | US-10-925-366A-6 | Sequence 6, Appli |
| 972 | 27 | 47.4 | 108 | 11 | US-11-127-932-12 | Sequence 12, Appl |
| 973 | 27 | 47.4 | 108 | 11 | US-11-127-932-13 | Sequence 13, Appl |
| 974 | 27 | 47.4 | 108 | 11 | US-11-064-174-32 | Sequence 32, Appl |
| 975 | 27 | 47.4 | 108 | 11 | US-11-064-174-41 | Sequence 41, Appl |
| 976 | 27 | 47.4 | 108 | 11 | US-11-064-174-43 | Sequence 43, Appl |
| 977 | 27 | 47.4 | 108 | 11 | US-11-064-174-167 | Sequence 167, App |
| 978 | 27 | 47.4 | 108 | 11 | US-11-097-812-27 | Sequence 27, Appl |
| 979 | 27 | 47.4 | 108 | 11 | US-11-127-903-12 | Sequence 12, Appl |
| 980 | 27 | 47.4 | 108 | 11 | US-11-127-903-13 | Sequence 13, Appl |
| 981 | 27 | 47.4 | 108 | 11 | US-11-049-536-172 | Sequence 172, App |
| 982 | 27 | 47.4 | 108 | 11 | US-11-049-536-452 | Sequence 452, App |
| 983 | 27 | 47.4 | 108 | 11 | US-11-199-739-172 | Sequence 172, App |
| 984 | 27 | 47.4 | 108 | 11 | US-11-199-739-452 | Sequence 452, App |
| 985 | 27 | 47.4 | 108 | 11 | US-11-102-512-3 | Sequence 3, Appli |
| 986 | 27 | 47.4 | 108 | 11 | US-11-102-512-6 | Sequence 6, Appli |
| 987 | 27 | 47.4 | 108 | 11 | US-11-098-758-3 | Sequence 3, Appli |
| 988 | 27 | 47.4 | 108 | 11 | US-11-098-758-6 | Sequence 6, Appli |
| 989 | 27 | 47.4 | 108 | 11 | US-11-166-496-10 | Sequence 10, Appl |
| 990 | 27 | 47.4 | 109 | 11 | US-11-127-932-16 | Sequence 16, Appl |
| 991 | 27 | 47.4 | 109 | 11 | US-11-127-932-17 | Sequence 17, Appl |
| 992 | 27 | 47.4 | 109 | 11 | US-11-127-932-20 | Sequence 20, Appl |
| 993 | 27 | 47.4 | 109 | 11 | US-11-127-903-16 | Sequence 16, Appl |
| 994 | 27 | 47.4 | 109 | 11 | US-11-127-903-17 | Sequence 17, Appl |
| 995 | 27 | 47.4 | 109 | 11 | US-11-127-903-20 | Sequence 20, Appl |
| 996 | 27 | 47.4 | 109 | 11 | US-11-096-568A-3602 | Sequence 3602, Ap |
| 997 | 27 | 47.4 | 110 | 11 | US-11-049-536-468 | Sequence 468, App |
| 998 | 27 | 47.4 | 110 | 11 | US-11-199-739-468 | Sequence 468, App |
| 999 | 27 | 47.4 | 111 | 11 | US-11-155-775-36 | Sequence 36, Appl |
| 1000 | 27 | 47.4 | 111 | 11 | US-11-049-536-100 | Sequence 100, App |

ALIGNMENTS

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RESULT 1
US-10-530-061-1657
; Sequence 1657, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1657
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-1657

  Query Match             100.0%;  Score 57;  DB 9;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.0032;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
              |||||||||
Db          1 HYCYSLYGT 9


RESULT 2
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
;  APPLICANT: HealthBanks Biotech CO. LTD.
;  TITLE OF INVENTION: Fusion protein for inhibiting cervcal cancer
;  FILE REFERENCE: P7819/0613
;  CURRENT APPLICATION NUMBER: US/11/206,138
;  CURRENT FILING DATE:  2005-08-18
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-11-206-138-3

  Query Match             100.0%;  Score 57;  DB 11;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.02;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
              |||||||||
Db         85 HYCYSLYGT 93


RESULT 3
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
;  APPLICANT: PANG, XIAOWU
;  TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
;  TITLE OF INVENTION:  RECOMBINANT REPLICON
;  FILE REFERENCE: 116620-003
;  CURRENT APPLICATION NUMBER: US/11/192,923A
;  CURRENT FILING DATE:  2005-07-29
;  PRIOR APPLICATION NUMBER: CN 03115272.4
;  PRIOR FILING DATE: 2003-01-30
;  PRIOR APPLICATION NUMBER: CN 03115273.2
;  PRIOR FILING DATE: 2003-01-30
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
;   LENGTH: 256
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-11-192-923A-2

  Query Match             100.0%;  Score 57;  DB 11;  Length 256;
  Best Local Similarity   100.0%;  Pred. No. 0.029;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
              |||||||||
Db        183 HYCYSLYGT 191


RESULT 4
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
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;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-13

  Query Match             94.7%;  Score 54;  DB 9;  Length 151;
  Best Local Similarity   88.9%;  Pred. No. 0.059;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
              |||||:|||
Db         78 HYCYSVYGT 86


RESULT 5
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-1

  Query Match             94.7%;  Score 54;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 0.087;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
              |||||:|||
Db         78 HYCYSVYGT 86


RESULT 6
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-3

  Query Match             94.7%;  Score 54;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 0.087;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
              |||||:|||
Db         78 HYCYSVYGT 86


RESULT 7
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-5

  Query Match             94.7%;  Score 54;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 0.087;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
              |||||:|||
Db         78 HYCYSVYGT 86


RESULT 8
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-7

  Query Match             94.7%;  Score 54;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 0.087;
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  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
              |||||:|||
Db        175 HYCYSVYGT 183


RESULT 9
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-9

  Query Match             94.7%;  Score 54;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 0.087;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
              |||||:|||
Db        175 HYCYSVYGT 183


RESULT 10
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-11

  Query Match             94.7%;  Score 54;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 0.087;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYGT 9
              |||||:|||
Db        175 HYCYSVYGT 183


RESULT 11
US-10-530-061-124
; Sequence 124, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 124
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-124

  Query Match             80.7%;  Score 46;  DB 9;  Length 10;
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  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLY 7
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Db          4 HYCYSLY 10


RESULT 12
US-10-530-061-127
; Sequence 127, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 127
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-127

  Query Match             80.7%;  Score 46;  DB 9;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.14;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLY 7
              |||||||
Db          4 HYCYSLY 10


RESULT 13
```

```
US-10-530-061-128
; Sequence 128, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 128
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-128

  Query Match             80.7%;  Score 46;  DB 9;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.14;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLY 7
              |||||||
Db          4 HYCYSLY 10


RESULT 14
US-10-530-061-850
; Sequence 850, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 850
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-850

  Query Match             80.7%;  Score 46;  DB 9;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.14;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLY 7
              |||||||
Db          4 HYCYSLY 10


RESULT 15
US-10-530-061-852
; Sequence 852, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 852
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-852

  Query Match             80.7%;  Score 46;  DB 9;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.14;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLY 7
              |||||||
Db          4 HYCYSLY 10


RESULT 16
US-10-530-061-853
; Sequence 853, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 853
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-853

  Query Match             80.7%;  Score 46;  DB 9;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.14;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HYCYSLY 7
              |||||||
Db          4 HYCYSLY 10


RESULT 17
US-10-530-061-804
; Sequence 804, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
```

; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 804
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-804

Query Match 73.7%; Score 42; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 CYSLYGT 9
|||||||
Db 1 CYSLYGT 7

RESULT 18
US-10-530-061-1658
; Sequence 1658, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1658
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1658

Query Match 73.7%; Score 42; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.84;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 CYSLYGT 9
|||||||
Db 1 CYSLYGT 7

RESULT 19
US-11-079-463-8790
; Sequence 8790, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 8790
; LENGTH: 493
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-8790

Query Match 73.7%; Score 42; DB 11; Length 493;
Best Local Similarity 77.8%; Pred. No. 13;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
||| ||||
Db 356 HYCEVLYGT 364

RESULT 20
US-10-530-253-22
; Sequence 22, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 22
; LENGTH: 148
; TYPE: PRT
; ORGANISM: Human papillomavirus type 52
US-10-530-253-22

Query Match 70.2%; Score 40; DB 9; Length 148;
Best Local Similarity 87.5%; Pred. No. 11;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 HYCYSLYG 8
|| |||||
Db 78 HYQYSLYG 85

RESULT 21
US-10-530-253-24
; Sequence 24, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65

; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 24
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 58
US-10-530-253-24

Query Match 70.2%; Score 40; DB 9; Length 149;
Best Local Similarity 87.5%; Pred. No. 11;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 HYCYSLYG 8
|| |||||
Db 78 HYNYSLYG 85

RESULT 22
US-10-530-253-17
; Sequence 17, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 33
US-10-530-253-17

Query Match 64.9%; Score 37; DB 9; Length 149;
Best Local Similarity 75.0%; Pred. No. 33;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 HYCYSLYG 8
|| ||:||
Db 78 HYNYSVYG 85

RESULT 23
US-11-063-343-37
; Sequence 37, Application US/11063343
; Publication No. US20050272061A1
; GENERAL INFORMATION:
; APPLICANT: Petroziello, Joseph M.
; APPLICANT: Carter, Paul
; TITLE OF INVENTION: Expression Profiling in Non-Small Cell
; TITLE OF INVENTION: Lung Cancer
; FILE REFERENCE: 2681-1-003N
; CURRENT APPLICATION NUMBER: US/11/063,343
; CURRENT FILING DATE: 2005-02-22
; PRIOR APPLICATION NUMBER: 60/546,019
; PRIOR FILING DATE: 2004-02-19
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 37
; LENGTH: 929
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-063-343-37

Query Match 64.9%; Score 37; DB 11; Length 929;
Best Local Similarity 55.6%; Pred. No. 1.4e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 HYCYSLYGT 9
|||:::| |
Db 908 HYCFNVYIT 916

RESULT 24
US-11-079-463-8300
; Sequence 8300, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRAC
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 8300
; LENGTH: 138
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-8300

Query Match 63.2%; Score 36; DB 11; Length 138;
Best Local Similarity 85.7%; Pred. No. 44;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 YCYSLYG 8
||||| |
Db 46 YCYSLLG 52

RESULT 25
US-11-072-512-2944
; Sequence 2944, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHIKO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2944

```
;   LENGTH: 786
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-072-512-2944

  Query Match             63.2%;  Score 36;  DB 11;  Length 786;
  Best Local Similarity   71.4%;  Pred. No. 1.7e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HYCYSLY 7
              |:|| ||
Db        645 HFCYLLY 651


RESULT 26
US-10-501-035-343
; Sequence 343, Application US/10501035
; Publication No. US20060046249A1
; GENERAL INFORMATION:
;  APPLICANT: Bristol-Myers Squibb Company
;  TITLE OF INVENTION: IDENTIFICATION OF POLYNUCLEOTIDES AND POLYPEPTIDE FOR PREDICTING
;  TITLE OF INVENTION:  ACTIVITY OF COMPOUNDS THAT INTERACT WITH PROTEIN TYROSINE KINASE
;  TITLE OF INVENTION:  AND/OR PROTEIN TYROSINE KINASE PATHWAYS
;  FILE REFERENCE: D0185 PCT
;  CURRENT APPLICATION NUMBER: US/10/501,035
;  CURRENT FILING DATE:  2004-07-09
;  PRIOR APPLICATION NUMBER: US 60/350,061
;  PRIOR FILING DATE: 2002-01-18
;  NUMBER OF SEQ ID NOS: 795
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 343
;   LENGTH: 941
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-501-035-343

  Query Match             63.2%;  Score 36;  DB 9;  Length 941;
  Best Local Similarity   71.4%;  Pred. No. 2e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HYCYSLY 7
              |:|| ||
Db        666 HFCYLLY 672


RESULT 27
US-11-054-515-2810
; Sequence 2810, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 2810
;   LENGTH: 18
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-2810

  Query Match             61.4%;  Score 35;  DB 11;  Length 18;
  Best Local Similarity   85.7%;  Pred. No. 13;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YCYSLYG 8
              ||||| |
Db          4 YCYSLTG 10


RESULT 28
US-11-266-444-2810
; Sequence 2810, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulato
;  FILE REFERENCE: PF523P1D1
;  CURRENT APPLICATION NUMBER: US/11/266,444
;  CURRENT FILING DATE:  2005-11-04
;  PRIOR APPLICATION NUMBER: 09/880,746
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2810
;   LENGTH: 18
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-266-444-2810

  Query Match             61.4%;  Score 35;  DB 11;  Length 18;
  Best Local Similarity   85.7%;  Pred. No. 13;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YCYSLYG 8
              ||||| |
Db          4 YCYSLTG 10


RESULT 29
US-11-054-515-946
; Sequence 946, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
```

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;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 946
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-946

  Query Match             61.4%;  Score 35;  DB 11;  Length 249;
  Best Local Similarity   85.7%;  Pred. No. 1e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YCYSLYG 8
              ||||| |
Db        101 YCYSLTG 107


RESULT 30
US-11-266-444-946
; Sequence 946, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulato
;  FILE REFERENCE: PF523P1D1
;  CURRENT APPLICATION NUMBER: US/11/266,444
;  CURRENT FILING DATE:  2005-11-04
;  PRIOR APPLICATION NUMBER: 09/880,746
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 946
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-266-444-946

  Query Match             61.4%;  Score 35;  DB 11;  Length 249;
  Best Local Similarity   85.7%;  Pred. No. 1e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YCYSLYG 8
              ||||| |
Db        101 YCYSLTG 107


RESULT 31
US-10-821-234-1102
; Sequence 1102, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
;  APPLICANT: Labat, Ivan
;  APPLICANT:  Stache-Crain, Birgit
;  APPLICANT:  Andarmani, Susan
;  APPLICANT:  Tang, Y. Tom
;  TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
;  FILE REFERENCE: 821A
;  CURRENT APPLICATION NUMBER: US/10/821,234
;  CURRENT FILING DATE:  2004-04-07
;  PRIOR APPLICATION NUMBER: US 60/462,047
;  PRIOR FILING DATE: 2003-04-07
;  NUMBER OF SEQ ID NOS: 1704
;  SOFTWARE: pt_SEQ_genes Version 1.0
; SEQ ID NO 1102
;   LENGTH: 1452
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-821-234-1102

  Query Match             61.4%;  Score 35;  DB 9;  Length 1452;
  Best Local Similarity   62.5%;  Pred. No. 4.1e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYG 8
              |||| : |
Db        418 HYCYQVGG 425


RESULT 32
US-10-939-890-287
; Sequence 287, Application US/10939890
; Publication No. US20050250700A1
; GENERAL INFORMATION:
;  APPLICANT: Sato, Aaron K.
;  APPLICANT:  Sexton, Daniel J.
;  APPLICANT:  Dransfield, Daniel T.
;  APPLICANT:  Ladner, Robert C.
;  APPLICANT:  Arbogast, Christophe
;  APPLICANT:  Bussat, Philippe
;  APPLICANT:  Fan, Hong
;  APPLICANT:  Khurana, Sudha
;  APPLICANT:  Linder, Karen E.
;  APPLICANT:  Marinelli, Edmund R.
;  APPLICANT:  Nanjappan, Palaniappa
;  APPLICANT:  Nunn, Adrian D.
;  APPLICANT:  Pillai, Radhakrishna
;  APPLICANT:  Pochon, Sibylle
;  APPLICANT:  Ramalingam, Kondareddiar
;  APPLICANT:  Shrivastava, Ajay
;  APPLICANT:  Song, Bo
;  APPLICANT:  Swenson, Rolf E.
;  APPLICANT:  Von Wronski, Mathew A.
;  TITLE OF INVENTION: KDR AND VEGF/KDR BINDING PEPTIDES
;  FILE REFERENCE: D0617.70014US00
;  CURRENT APPLICATION NUMBER: US/10/939,890
;  CURRENT FILING DATE:  2004-09-13
;  PRIOR APPLICATION NUMBER: US 10/661,156
;  PRIOR FILING DATE: 2003-09-11
;  PRIOR APPLICATION NUMBER: US 10/382,082
;  PRIOR FILING DATE: 2003-03-03
;  PRIOR APPLICATION NUMBER: PCT/US03/06731
;  PRIOR FILING DATE: 2003-03-03
;  PRIOR APPLICATION NUMBER: US 60/440,411
;  PRIOR FILING DATE: 2003-01-15
;  PRIOR APPLICATION NUMBER: US 60/360,851
;  PRIOR FILING DATE: 2002-03-01
;  NUMBER OF SEQ ID NOS: 883
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 287
;   LENGTH: 26
;   TYPE: PRT
```

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthesized KDR-Binding Polypeptide
US-10-939-890-287

Query Match 60.5%; Score 34.5; DB 9; Length 26;
Best Local Similarity 77.8%; Pred. No. 21;
Matches 7; Conservative 1; Mismatches 0; Indels 1; Gaps 1;

Qy 2 YCYS-LYGT 9
:||| ||||
Db 14 FCYSFLYGT 22

RESULT 33
US-10-530-061-125
; Sequence 125, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 125
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-125

Query Match 59.6%; Score 34; DB 9; Length 10;
Best Local Similarity 85.7%; Pred. No. 12;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 HYCYSLY 7
|| ||||
Db 4 HYNYSLY 10

RESULT 34
US-10-530-061-131
; Sequence 131, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 131
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-131

Query Match 59.6%; Score 34; DB 9; Length 10;
Best Local Similarity 85.7%; Pred. No. 12;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 HYCYSLY 7
|| ||||
Db 4 HYNYSLY 10

RESULT 35
US-10-530-061-132
; Sequence 132, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 132
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-132

Query Match 59.6%; Score 34; DB 9; Length 10;
Best Local Similarity 85.7%; Pred. No. 12;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 HYCYSLY 7
|| ||||
Db 4 HYNYSLY 10

RESULT 36
US-10-530-061-851
; Sequence 851, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 851
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-851

Query Match 59.6%; Score 34; DB 9; Length 10;

Best Local Similarity 85.7%; Pred. No. 12;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 HYCYSLY 7
              || ||||
Db          4 HYNYSLY 10
```

RESULT 37
US-10-530-061-856
; Sequence 856, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 856
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-856

Query Match 59.6%; Score 34; DB 9; Length 10;
Best Local Similarity 85.7%; Pred. No. 12;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 HYCYSLY 7
              || ||||
Db          4 HYNYSLY 10
```

RESULT 38
US-10-530-061-857
; Sequence 857, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 857
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-857

Query Match 59.6%; Score 34; DB 9; Length 10;
Best Local Similarity 85.7%; Pred. No. 12;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 HYCYSLY 7
              || ||||
Db          4 HYNYSLY 10
```

RESULT 39
US-10-530-061-1672
; Sequence 1672, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1672
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1672

Query Match 59.6%; Score 34; DB 9; Length 15;
Best Local Similarity 75.0%; Pred. No. 16;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
Qy          2 YCYSLYGT 9
              | ||:|||
Db          2 YRYSVYGT 9
```

RESULT 40
US-11-079-463-6276
; Sequence 6276, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRAC
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 6276
; LENGTH: 100
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-6276

Query Match 59.6%; Score 34; DB 11; Length 100;
Best Local Similarity 83.3%; Pred. No. 73;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
Qy          2 YCYSLY 7
              |||| |
Db         68 YCYSFY 73
```

RESULT 41
US-11-171-567-202

```
; Sequence 202, Application US/11171567
; Publication No. US20060057651A1
; GENERAL INFORMATION:
;  APPLICANT: Bowdish, Katherine S.
;  APPLICANT:  McWhirter, John
;  TITLE OF INVENTION: POLYPEPTIDES AND ANTIBODIES DERIVED FROM CHRONIC LYMPHOCYTIC LEUK
;  TITLE OF INVENTION:  CELLS AND USES THEREOF
;  FILE REFERENCE: ALEX-P06-060
;  CURRENT APPLICATION NUMBER: US/11/171,567
;  CURRENT FILING DATE:  2005-06-30
;  PRIOR APPLICATION NUMBER: US 10/996,316
;  PRIOR FILING DATE: 2004-11-23
;  PRIOR APPLICATION NUMBER: US 10/894,672
;  PRIOR FILING DATE: 2004-07-20
;  PRIOR APPLICATION NUMBER: US 10/736,188
;  PRIOR FILING DATE: 2003-12-15
;  PRIOR APPLICATION NUMBER: US 10/379,151
;  PRIOR FILING DATE: 2003-03-04
;  PRIOR APPLICATION NUMBER: PCT/US01/47931
;  PRIOR FILING DATE: 2001-12-10
;  PRIOR APPLICATION NUMBER: US 60/254,113
;  PRIOR FILING DATE: 2000-12-08
;  NUMBER OF SEQ ID NOS: 213
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 202
;   LENGTH: 123
;   TYPE: PRT
;   ORGANISM: murine
US-11-171-567-202

  Query Match             59.6%;  Score 34;  DB 11;  Length 123;
  Best Local Similarity   62.5%;  Pred. No. 85;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HYCYSLYG 8
              :|| :|||
Db         95 YYCNALYG 102


RESULT 42
US-10-530-253-16
; Sequence 16, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 31
US-10-530-253-16

  Query Match             59.6%;  Score 34;  DB 9;  Length 149;
  Best Local Similarity   75.0%;  Pred. No. 99;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YCYSLYGT 9
              | ||:|||
Db         79 YRYSVYGT 86


RESULT 43
US-11-096-568A-12479
; Sequence 12479, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides I
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 12479
;   LENGTH: 286
;   TYPE: PRT
;   ORGANISM: Triticum aestivum
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(286)
;   OTHER INFORMATION: Ceres Seq. ID no. 14301838
US-11-096-568A-12479

  Query Match             59.6%;  Score 34;  DB 11;  Length 286;
  Best Local Similarity   75.0%;  Pred. No. 1.7e+02;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 YCYSLYGT 9
              | || |||
Db        167 YSYSAYGT 174


RESULT 44
US-10-505-928-497
; Sequence 497, Application US/10505928
; Publication No. US20060088532A1
; GENERAL INFORMATION:
;  APPLICANT: Ludwig Institute for Cancer Research et al.
;  TITLE OF INVENTION: LYMPHATIC ENDOTHELIAL GENES
;  FILE REFERENCE: 28967/39178
;  CURRENT APPLICATION NUMBER: US/10/505,928
;  CURRENT FILING DATE:  2004-08-27
;  PRIOR APPLICATION NUMBER: US 60/363,019
;  PRIOR FILING DATE: 2002-03-07
;  NUMBER OF SEQ ID NOS: 866
;  SOFTWARE: PatentIn 3.2
; SEQ ID NO 497
;   LENGTH: 323
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-505-928-497

  Query Match             59.6%;  Score 34;  DB 8;  Length 323;
  Best Local Similarity   85.7%;  Pred. No. 1.8e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HYCYSLY 7
              || ||||
Db        294 HYGYSLY 300


RESULT 45
US-11-087-099-8392
; Sequence 8392, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 8392
;   LENGTH: 329
```

; TYPE: PRT
; ORGANISM: Staphylococcus carnosus
US-11-087-099-8392

Query Match 59.6%; Score 34; DB 11; Length 329;
Best Local Similarity 50.0%; Pred. No. 1.8e+02;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 HYCYSLYG 8
|:|:: ||
Db 153 HWCHNAYG 160

RESULT 46
US-11-096-568A-12478
; Sequence 12478, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 12478
; LENGTH: 340
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(340)
; OTHER INFORMATION: Ceres Seq. ID no. 14301837
US-11-096-568A-12478

Query Match 59.6%; Score 34; DB 11; Length 340;
Best Local Similarity 75.0%; Pred. No. 1.9e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 YCYSLYGT 9
| || |||
Db 221 YSYSAYGT 228

RESULT 47
US-11-096-568A-28194
; Sequence 28194, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 28194
; LENGTH: 357
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(357)
; OTHER INFORMATION: Ceres Seq. ID no. 2706631
US-11-096-568A-28194

Query Match 59.6%; Score 34; DB 11; Length 357;
Best Local Similarity 83.3%; Pred. No. 2e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSL 6
|:||||
Db 112 HHCYSL 117

RESULT 48
US-11-096-568A-28193
; Sequence 28193, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides I
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 28193
; LENGTH: 399
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(399)
; OTHER INFORMATION: Ceres Seq. ID no. 2706630
US-11-096-568A-28193

Query Match 59.6%; Score 34; DB 11; Length 399;
Best Local Similarity 83.3%; Pred. No. 2.1e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYCYSL 6
|:||||
Db 154 HHCYSL 159

RESULT 49
US-10-793-626-2812
; Sequence 2812, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2812
; LENGTH: 497
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-2812

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; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides I
; TITLE OF INVENTION: Therby

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;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
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OM protein - protein search, using sw model

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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| 224 | 30 | 58.8 | 99 | 2 | US-09-942-087A-15 | Sequence 15, Appl |
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| 238 | 30 | 58.8 | 251 | 2 | US-09-270-767-58802 | Sequence 58802, A |
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| 240 | 30 | 58.8 | 295 | 2 | US-09-893-737-324 | Sequence 324, App |
| 241 | 30 | 58.8 | 310 | 2 | US-09-198-452A-864 | Sequence 864, App |
| 242 | 30 | 58.8 | 310 | 2 | US-09-438-185A-809 | Sequence 809, App |
| 243 | 30 | 58.8 | 326 | 2 | US-09-489-039A-7958 | Sequence 7958, Ap |
| 244 | 30 | 58.8 | 326 | 2 | US-09-784-810C-11 | Sequence 11, Appl |
| 245 | 30 | 58.8 | 360 | 2 | US-09-043-627-2 | Sequence 2, Appli |
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| 261 | 30 | 58.8 | 686 | 2 | US-09-538-092-1037 | Sequence 1037, Ap |
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| 314 | 29.5 | 57.8 | 1454 | 4 | PCT-US93-04384-47 | Sequence 47, Appl |
| 315 | 29.5 | 57.8 | 1454 | 4 | PCT-US93-04384-48 | Sequence 48, Appl |
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| 317 | 29 | 56.9 | 24 | 1 | US-08-484-631-112 | Sequence 112, App |
| 318 | 29 | 56.9 | 24 | 1 | US-08-827-570-112 | Sequence 112, App |
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| 965 | 27 | 52.9 | 384 | 2 | US-08-597-313D-4 | Sequence 4, Appli |
| 966 | 27 | 52.9 | 384 | 2 | US-09-059-769-10 | Sequence 10, Appl |
| 967 | 27 | 52.9 | 384 | 2 | US-09-354-231B-6 | Sequence 6, Appli |
| 968 | 27 | 52.9 | 384 | 2 | US-09-354-231B-8 | Sequence 8, Appli |
| 969 | 27 | 52.9 | 384 | 2 | US-09-354-231B-10 | Sequence 10, Appl |
| 970 | 27 | 52.9 | 384 | 2 | US-09-354-231B-12 | Sequence 12, Appl |
| 971 | 27 | 52.9 | 384 | 2 | US-09-133-962A-4 | Sequence 4, Appli |
| 972 | 27 | 52.9 | 384 | 2 | US-09-128-602B-6 | Sequence 6, Appli |
| 973 | 27 | 52.9 | 384 | 2 | US-09-128-602B-8 | Sequence 8, Appli |
| 974 | 27 | 52.9 | 384 | 2 | US-09-128-602B-10 | Sequence 10, Appl |
| 975 | 27 | 52.9 | 384 | 2 | US-09-128-602B-12 | Sequence 12, Appl |
| 976 | 27 | 52.9 | 384 | 2 | US-09-482-287-6 | Sequence 6, Appli |

| | | | | | | |
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| 977 | 27 | 52.9 | 384 | 2 | US-09-966-888-6 | Sequence 6, Appli |
| 978 | 27 | 52.9 | 384 | 2 | US-09-995-297-6 | Sequence 6, Appli |
| 979 | 27 | 52.9 | 384 | 2 | US-09-995-297-8 | Sequence 8, Appli |
| 980 | 27 | 52.9 | 384 | 2 | US-09-995-297-10 | Sequence 10, Appl |
| 981 | 27 | 52.9 | 384 | 2 | US-09-995-297-12 | Sequence 12, Appl |
| 982 | 27 | 52.9 | 384 | 2 | US-09-697-379-4 | Sequence 4, Appli |
| 983 | 27 | 52.9 | 384 | 2 | US-10-116-212A-4 | Sequence 4, Appli |
| 984 | 27 | 52.9 | 384 | 2 | US-09-885-189-4 | Sequence 4, Appli |
| 985 | 27 | 52.9 | 386 | 2 | US-09-370-838-81 | Sequence 81, Appl |
| 986 | 27 | 52.9 | 386 | 2 | US-09-854-133-81 | Sequence 81, Appl |
| 987 | 27 | 52.9 | 387 | 2 | US-09-252-991A-20820 | Sequence 20820, A |
| 988 | 27 | 52.9 | 393 | 1 | US-08-904-031-3 | Sequence 3, Appli |
| 989 | 27 | 52.9 | 393 | 2 | US-09-270-767-38051 | Sequence 38051, A |
| 990 | 27 | 52.9 | 393 | 2 | US-09-270-767-42317 | Sequence 42317, A |
| 991 | 27 | 52.9 | 393 | 2 | US-09-270-767-53268 | Sequence 53268, A |
| 992 | 27 | 52.9 | 397 | 1 | US-08-290-448A-76 | Sequence 76, Appl |
| 993 | 27 | 52.9 | 397 | 1 | US-08-290-448A-76 | Sequence 76, Appl |
| 994 | 27 | 52.9 | 397 | 1 | US-08-175-069A-76 | Sequence 76, Appl |
| 995 | 27 | 52.9 | 397 | 2 | US-08-461-939B-76 | Sequence 76, Appl |
| 996 | 27 | 52.9 | 397 | 2 | US-08-464-000-76 | Sequence 76, Appl |
| 997 | 27 | 52.9 | 398 | 1 | US-08-290-448A-74 | Sequence 74, Appl |
| 998 | 27 | 52.9 | 398 | 1 | US-08-290-448A-74 | Sequence 74, Appl |
| 999 | 27 | 52.9 | 398 | 1 | US-08-175-069A-74 | Sequence 74, Appl |
| 1000 | 27 | 52.9 | 398 | 2 | US-08-461-939B-74 | Sequence 74, Appl |

ALIGNMENTS

```
RESULT 1
US-08-159-339A-563
; Sequence 563, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  563:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-563

  Query Match             100.0%;  Score 51;  DB 2;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 4.6e+05;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db          1 CYSLYGTTL 9


RESULT 2
US-08-159-339A-1171
; Sequence 1171, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  1171:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  11 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-1171

  Query Match             100.0%;  Score 51;  DB 2;  Length 11;
  Best Local Similarity   100.0%;  Pred. No. 0.004;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
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Qy          1 CYSLYGTTL 9
              |||||||||
Db          3 CYSLYGTTL 11


RESULT 3
US-08-934-915-44
; Sequence 44, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  44:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-44

  Query Match             100.0%;  Score 51;  DB 1;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.0077;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db         11 CYSLYGTTL 19


RESULT 4
US-08-934-915-163
; Sequence 163, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  163:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-163

  Query Match             100.0%;  Score 51;  DB 1;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.0077;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db         11 CYSLYGTTL 19


RESULT 5
US-09-980-523A-8
; Sequence 8, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
;   LENGTH: 29
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-8
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  Query Match            100.0%;  Score 51;  DB 2;  Length 29;
  Best Local Similarity   100.0%;  Pred. No. 0.012;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db          8 CYSLYGTTL 16


RESULT 6
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
;  APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
;  TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 F
;  TITLE OF INVENTION:  TRANSCRIPTIONAL REGULATION
;  FILE REFERENCE: N73477C GCW
;  CURRENT APPLICATION NUMBER: US/09/701,080C
;  CURRENT FILING DATE:  2001-02-27
;  PRIOR APPLICATION NUMBER: GB 9811303.8
;  PRIOR FILING DATE: 1998-05-26
;  PRIOR APPLICATION NUMBER: GB 9900157.0
;  PRIOR FILING DATE: 1999-01-05
;  NUMBER OF SEQ ID NOS: 36
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-09-701-080C-18

  Query Match            100.0%;  Score 51;  DB 2;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 0.07;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db         80 CYSLYGTTL 88


RESULT 7
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-2

  Query Match            100.0%;  Score 51;  DB 2;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.074;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db         87 CYSLYGTTL 95


RESULT 8
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-3

  Query Match            100.0%;  Score 51;  DB 1;  Length 162;
  Best Local Similarity   100.0%;  Pred. No. 0.076;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db         87 CYSLYGTTL 95


RESULT 9
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
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; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

Query Match 100.0%; Score 51; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.081;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYSLYGTTL 9
||||||||| 
Db 25 CYSLYGTTL 33

RESULT 10
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

Query Match 100.0%; Score 51; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.081;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYSLYGTTL 9
||||||||| 
Db 156 CYSLYGTTL 164

RESULT 11
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-12

Query Match 100.0%; Score 51; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.081;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYSLYGTTL 9
||||||||| 
Db 25 CYSLYGTTL 33

RESULT 12
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-14

Query Match 100.0%; Score 51; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.081;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYSLYGTTL 9
||||||||| 
Db 156 CYSLYGTTL 164

RESULT 13
US-08-117-083-10
; Sequence 10, Application US/08117083
; Patent No. 5719054
; GENERAL INFORMATION:
; APPLICANT: Boursnell, Michael E.
; APPLICANT: Inglis, Stephen C.
; APPLICANT: Munro, Alan J.
; TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
; TITLE OF INVENTION: Papilloma Virus Proteins
; NUMBER OF SEQUENCES: 70
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Walter H. Dreger
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco

```
;       STATE:  CA
;       COUNTRY:  USA
;       ZIP:  94111
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/117,083
;       FILING DATE:  10-SEP-1993
;       CLASSIFICATION:  435
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Dreger, Walter H.
;       REGISTRATION NUMBER:  24,190
;       REFERENCE/DOCKET NUMBER:  A-58783
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  415-781-1989
;       TELEFAX:  415-398-3249
;       TELEX:  910 277299
;   INFORMATION FOR SEQ ID NO:  10:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  182 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
;     FEATURE:
;       NAME/KEY:  Protein
;       LOCATION:  1..182
;       OTHER INFORMATION:  /note= "Xaa refers to stop codon in
;       OTHER INFORMATION:  the open reading frame."
US-08-117-083-10

  Query Match             100.0%;  Score 51;  DB 1;  Length 182;
  Best Local Similarity   100.0%;  Pred. No. 0.086;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db         68 CYSLYGTTL 76


RESULT 14
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
;  APPLICANT:  KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION:  ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE:  017753-122
;  CURRENT APPLICATION NUMBER: US/09/462,993
;  CURRENT FILING DATE:  2000-04-17
;  PRIOR APPLICATION NUMBER:  PCT/FR98/01576
;  PRIOR FILING DATE:  1998-07-17
;  PRIOR APPLICATION NUMBER:  FR 97/09152
;  PRIOR FILING DATE:  1997-07-18
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

. Query Match             100.0%;  Score 51;  DB 2;  Length 243;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db        115 CYSLYGTTL 123


RESULT 15
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

  Query Match             100.0%;  Score 51;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.13;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db         87 CYSLYGTTL 95


RESULT 16
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-10

  Query Match             100.0%;  Score 51;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.13;
```

```
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db         87 CYSLYGTTL 95


RESULT 17
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 51;  DB 2;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.13;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db         87 CYSLYGTTL 95


RESULT 18
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-4

  Query Match             100.0%;  Score 51;  DB 2;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 0.13;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db        193 CYSLYGTTL 201


RESULT 19
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-10

  Query Match             100.0%;  Score 51;  DB 2;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.14;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db        212 CYSLYGTTL 220


RESULT 20
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-6

  Query Match             100.0%;  Score 51;  DB 2;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 0.19;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db        193 CYSLYGTTL 201


RESULT 21
US-09-485-885-14
```

```
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-14

  Query Match             100.0%;  Score 51;  DB 2;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 0.2;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db        212 CYSLYGTTL 220


RESULT 22
US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-4

  Query Match             94.1%;  Score 48;  DB 1;  Length 162;
  Best Local Similarity   88.9%;  Pred. No. 0.27;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||:|||||
Db         87 CYSVYGTTL 95


RESULT 23
US-08-159-339A-244
; Sequence 244, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  244:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-244

  Query Match             82.4%;  Score 42;  DB 2;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 4.6e+05;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 YSLYGTTL 9
              ||||||||
Db          2 YSLYGTTL 9
```

```
RESULT 24
US-10-044-359-4
; Sequence 4, Application US/10044359
; Patent No. 6740743
; GENERAL INFORMATION:
;  APPLICANT: Herrman, Rafael
;  APPLICANT:  Wong, James F.
;  APPLICANT:  Lee, Jian-Ming
;  TITLE OF INVENTION: SCORPION TOXINS
;  FILE REFERENCE: BB1367 US NA
;  CURRENT APPLICATION NUMBER: US/10/044,359
;  CURRENT FILING DATE:  2002-01-11
;  PRIOR APPLICATION NUMBER: 09/599,416
;  PRIOR FILING DATE: 2000-06-22
;  PRIOR APPLICATION NUMBER: 60/140,227
;  PRIOR FILING DATE: 1999-06-22
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: Microsoft Office 97
; SEQ ID NO 4
;   LENGTH: 61
;   TYPE: PRT
;   ORGANISM: Hottentotta judaica
US-10-044-359-4

  Query Match             72.5%;  Score 37;  DB 2;  Length 61;
  Best Local Similarity   75.0%;  Pred. No. 9.3;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              ||  ||||
Db         41 CYDKYGTT 48


RESULT 25
US-09-198-452A-1162
; Sequence 1162, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
;  APPLICANT: Griffais, R.
;  TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
;  TITLE OF INVENTION:  thereof and uses thereof, in particular for the diagnosis, preve
;  TITLE OF INVENTION:  and treatment of infection
;  FILE REFERENCE: 9710-003-999
;  CURRENT APPLICATION NUMBER: US/09/198,452A
;  CURRENT FILING DATE:  1998-11-24
;  NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 1162
;   LENGTH: 91
;   TYPE: PRT
;   ORGANISM: Chlamydia pneumoniae
US-09-198-452A-1162

  Query Match             70.6%;  Score 36;  DB 2;  Length 91;
  Best Local Similarity   62.5%;  Pred. No. 22;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              |:|:|||:
Db         51 CFSVYGTS 58


RESULT 26
US-09-438-185A-175
; Sequence 175, Application US/09438185A
; Patent No. 6822071
; GENERAL INFORMATION:
;  APPLICANT: Stephens, Richard
;  APPLICANT:  Mitchell, Wayne
;  APPLICANT:  Kalman, Sue
;  APPLICANT:  Davis, Ronald
;  APPLICANT:  The Regents of the University of California
;  TITLE OF INVENTION: Chlamydia Pneumoniae Genome Sequence
;  FILE REFERENCE: 018941-000411US
;  CURRENT APPLICATION NUMBER: US/09/438,185A
;  CURRENT FILING DATE:  2002-03-13
;  PRIOR APPLICATION NUMBER: US 60/108,279
;  PRIOR FILING DATE: 1998-11-12
;  PRIOR APPLICATION NUMBER: US 60/128,606
;  PRIOR FILING DATE: 1999-04-08
;  NUMBER OF SEQ ID NOS: 1074
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 175
;   LENGTH: 109
;   TYPE: PRT
;   ORGANISM: Chlamydia pneumoniae
;   FEATURE:
;   OTHER INFORMATION: CPn0173
US-09-438-185A-175

  Query Match             70.6%;  Score 36;  DB 2;  Length 109;
  Best Local Similarity   62.5%;  Pred. No. 27;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              |:|:|||:
Db         69 CFSVYGTS 76


RESULT 27
US-09-487-558B-242
; Sequence 242, Application US/09487558B
; Patent No. 6949356
; GENERAL INFORMATION:
;  APPLICANT: Busby, Robert
;  APPLICANT:  Cali, Brian
;  APPLICANT:  Hecht, Peter
;  APPLICANT:  Holtzman, Doug
;  APPLICANT:  Madden, Kevin
;  APPLICANT:  Maxon, Mary
;  APPLICANT:  Milne, Todd
;  APPLICANT:  No. 6949356man, Thea
;  APPLICANT:  Royer, John
;  APPLICANT:  Salama, Sofie
;  APPLICANT:  Sherman, Amir
;  APPLICANT:  Silva, Jeff
;  APPLICANT:  Summers, Eric
;  TITLE OF INVENTION: Methods for Improving Secondary Metabolite Production in Fungi
;  FILE REFERENCE: 109272.130
;  CURRENT APPLICATION NUMBER: US/09/487,558B
;  CURRENT FILING DATE:  2000-01-19
;  PRIOR APPLICATION NUMBER: US 60/487,558
;  PRIOR FILING DATE: 1999-10-20
;  NUMBER OF SEQ ID NOS: 446
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 242
;   LENGTH: 1068
;   TYPE: PRT
;   ORGANISM: Saccharomyces cerevisiae
US-09-487-558B-242

  Query Match             70.6%;  Score 36;  DB 2;  Length 1068;
  Best Local Similarity   66.7%;  Pred. No. 3.2e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              ||| | :||
Db        450 CYSYYNSTL 458


RESULT 28
US-08-462-467B-4
; Sequence 4, Application US/08462467B
; Patent No. 6210899
;  GENERAL INFORMATION:
```

```
;    APPLICANT:  Rosenbaum, Jan S
;    TITLE OF INVENTION:  The Use of a BMP Protein Receptor
;    TITLE OF INVENTION:  Complex for Screening Bone Metabolism Actives and Cells
;    TITLE OF INVENTION:  Co-Transfected With a Type II BMP Receptor and a Type I
;    TITLE OF INVENTION:  BMP Receptor
;    NUMBER OF SEQUENCES:  39
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  The Procter & Gamble Company
;      STREET:  11810 East Miami River Road
;      CITY:  Ross
;      STATE:  OH
;      COUNTRY:  USA
;      ZIP:  45061
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/462,467B
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Hersko, Bart S.
;      REGISTRATION NUMBER:  32,572
;      REFERENCE/DOCKET NUMBER:  5474R
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (513) 627-0633
;      TELEFAX:  (513) 627-0260
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1618 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
US-08-462-467B-4

  Query Match             70.6%;  Score 36;  DB 2;  Length 1618;
  Best Local Similarity   85.7%;  Pred. No. 5.1e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CYSLYGT 7
                |||||  |
Db        799 CYSLYST 805


RESULT 29
US-08-936-135-4
; Sequence 4, Application US/08936135
; Patent No. 6054293
;  GENERAL INFORMATION:
;    APPLICANT:  Tessier-Lavigne, Marc
;    APPLICANT:  He, Zhigang
;    APPLICANT:  Chen, Hang
;    TITLE OF INVENTION:  Semaphorin Receptors
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  SCIENCE & TECHNOLOGY LAW GROUP
;      STREET:  75 DENISE DRIVE
;      CITY:  HILLSBOROUGH
;      STATE:  CALIFORNIA
;      COUNTRY:  USA
;      ZIP:  94010
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/936,135
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  OSMAN, RICHARD A
;      REGISTRATION NUMBER:  36,627
;      REFERENCE/DOCKET NUMBER:  UC97-288-2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (650) 343-4341
;      TELEFAX:  (650) 343-4342
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2584 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-936-135-4

  Query Match             70.6%;  Score 36;  DB 2;  Length 2584;
  Best Local Similarity   85.7%;  Pred. No. 8.5e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CYSLYGT 7
                |||||  |
Db        217 CYSLYST 223


RESULT 30
US-08-936-135-2
; Sequence 2, Application US/08936135
; Patent No. 6054293
;  GENERAL INFORMATION:
;    APPLICANT:  Tessier-Lavigne, Marc
;    APPLICANT:  He, Zhigang
;    APPLICANT:  Chen, Hang
;    TITLE OF INVENTION:  Semaphorin Receptors
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  SCIENCE & TECHNOLOGY LAW GROUP
;      STREET:  75 DENISE DRIVE
;      CITY:  HILLSBOROUGH
;      STATE:  CALIFORNIA
;      COUNTRY:  USA
;      ZIP:  94010
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/936,135
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  OSMAN, RICHARD A
;      REGISTRATION NUMBER:  36,627
;      REFERENCE/DOCKET NUMBER:  UC97-288-2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (650) 343-4341
;      TELEFAX:  (650) 343-4342
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2588 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-936-135-2

  Query Match             70.6%;  Score 36;  DB 2;  Length 2588;
  Best Local Similarity   85.7%;  Pred. No. 8.5e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CYSLYGT 7
                |||||  |
```

```
Db        220 CYSLYST 226


RESULT 31
US-08-462-467B-2
; Sequence 2, Application US/08462467B
; Patent No. 6210899
;  GENERAL INFORMATION:
;    APPLICANT:  Rosenbaum, Jan S
;    TITLE OF INVENTION:  The Use of a BMP Protein Receptor
;    TITLE OF INVENTION:  Complex for Screening Bone Metabolism Actives and Cells
;    TITLE OF INVENTION:  Co-Transfected With a Type II BMP Receptor and a Type I
;    TITLE OF INVENTION:  BMP Receptor
;    NUMBER OF SEQUENCES:  39
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  The Procter & Gamble Company
;      STREET:  11810 East Miami River Road
;      CITY:  Ross
;      STATE:  OH
;      COUNTRY:  USA
;      ZIP:  45061
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/462,467B
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Hersko, Bart S.
;      REGISTRATION NUMBER:  32,572
;      REFERENCE/DOCKET NUMBER:  5474R
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (513) 627-0633
;      TELEFAX:  (513) 627-0260
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2887 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
US-08-462-467B-2

  Query Match             70.6%;  Score 36;  DB 2;  Length 2887;
  Best Local Similarity   85.7%;  Pred. No. 9.5e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CYSLYGT 7
              ||||| |
Db        799 CYSLYST 805


RESULT 32
US-08-462-467B-8
; Sequence 8, Application US/08462467B
; Patent No. 6210899
;  GENERAL INFORMATION:
;    APPLICANT:  Rosenbaum, Jan S
;    TITLE OF INVENTION:  The Use of a BMP Protein Receptor
;    TITLE OF INVENTION:  Complex for Screening Bone Metabolism Actives and Cells
;    TITLE OF INVENTION:  Co-Transfected With a Type II BMP Receptor and a Type I
;    TITLE OF INVENTION:  BMP Receptor
;    NUMBER OF SEQUENCES:  39
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  The Procter & Gamble Company
;      STREET:  11810 East Miami River Road
;      CITY:  Ross
;      STATE:  OH
;      COUNTRY:  USA
;      ZIP:  45061
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/462,467B
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Hersko, Bart S.
;      REGISTRATION NUMBER:  32,572
;      REFERENCE/DOCKET NUMBER:  5474R
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (513) 627-0633
;      TELEFAX:  (513) 627-0260
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2887 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
US-08-462-467B-8

  Query Match             70.6%;  Score 36;  DB 2;  Length 2887;
  Best Local Similarity   85.7%;  Pred. No. 9.5e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CYSLYGT 7
              ||||| |
Db        798 CYSLYST 804


RESULT 33
US-08-159-339A-230
; Sequence 230, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
```

```
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  230:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-230

  Query Match             68.6%;  Score 35;  DB 2;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 4.6e+05;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 SLYGTTL 9
              |||||||
Db          1 SLYGTTL 7


RESULT 34
US-09-134-000C-4275
; Sequence 4275, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
;  APPLICANT: Lynn Doucette-Stamm et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;  TITLE OF INVENTION:  ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 032796-032
;  CURRENT APPLICATION NUMBER: US/09/134,000C
;  CURRENT FILING DATE:  1998-08-13
;  PRIOR APPLICATION NUMBER: US 60/055,778
;  PRIOR FILING DATE: 1997-08-15
;  NUMBER OF SEQ ID NOS: 6812
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4275
;   LENGTH: 364
;   TYPE: PRT
;   ORGANISM: Enterococcus faecalis
US-09-134-000C-4275

  Query Match             68.6%;  Score 35;  DB 2;  Length 364;
  Best Local Similarity   75.0%;  Pred. No. 1.5e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YSLYGTTL 9
              |||||| :
Db         64 YSLYGTVM 71


RESULT 35
US-08-191-866D-21
; Sequence 21, Application US/08191866D
; Patent No. 5783195
;  GENERAL INFORMATION:
;    APPLICANT:  Cochran, Mark D
;    APPLICANT:  Macdonald, Richard D.
;    TITLE OF INVENTION:  Recombinant Infectious Bovine
;    TITLE OF INVENTION:  Rhinotracheitis Virus S-IBR-052 And Uses Thereof
;    NUMBER OF SEQUENCES:  99
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  John P. White
;      STREET:  1185 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/191,866D
;      FILING DATE:  4 February 1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  White, John P.
;      REGISTRATION NUMBER:  28,678
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 278-0400
;      TELEFAX:  (212) 391-0525
;      TELEX:  422523
;  INFORMATION FOR SEQ ID NO:  21:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  441 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-191-866D-21

  Query Match             68.6%;  Score 35;  DB 1;  Length 441;
  Best Local Similarity   75.0%;  Pred. No. 1.9e+02;
  Matches    6;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 YSLYGTTL 9
              |:||||:|
Db        144 YALYGTSL 151


RESULT 36
US-08-185-949B-21
; Sequence 21, Application US/08185949B
; Patent No. 5874279
;  GENERAL INFORMATION:
;    APPLICANT:  Mark D. Cochran
;    APPLICANT:  Richard D. Macdonald
;    TITLE OF INVENTION:  Recombinant Infectious Bovine
;    TITLE OF INVENTION:  Rhinotracheitis Virus
;    NUMBER OF SEQUENCES:  104
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  John P. White
;      STREET:  1185 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM 330 466 DX2
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/185,949B
;      FILING DATE:  03-NOV-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  White, John P.
;      REGISTRATION NUMBER:  ,678
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 278-0400
;      TELEFAX:  (212) 278-0525
;  INFORMATION FOR SEQ ID NO:  21:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  441 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-185-949B-21

  Query Match             68.6%;  Score 35;  DB 1;  Length 441;
  Best Local Similarity   75.0%;  Pred. No. 1.9e+02;
  Matches    6;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy          2 YSLYGTTL 9
              |:||||:|
Db        144 YALYGTSL 151


RESULT 37
US-09-270-767-46235
; Sequence 46235, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 46235
;   LENGTH: 712
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
;   FEATURE:
;   OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-46235

  Query Match             68.6%;  Score 35;  DB 2;  Length 712;
  Best Local Similarity   71.4%;  Pred. No. 3.1e+02;
  Matches    5;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGT 7
              ||:|||:
Db        499 CYNLYGS 505


RESULT 38
US-08-764-100-27
; Sequence 27, Application US/08764100
; Patent No. 5773700
;  GENERAL INFORMATION:
;    APPLICANT:  van Grinsven J., Martinus Q.
;    APPLICANT:  De Haan, Petrus T.
;    APPLICANT:  Gielen L., Johannes J.
;    APPLICANT:  Peters, Dirk
;    APPLICANT:  Goldbach, Robert W.
;    TITLE OF INVENTION:  Improvements in or Relating to Organic
;    TITLE OF INVENTION:  Compounds
;    NUMBER OF SEQUENCES:  27
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sandoz Agro, Inc
;      STREET:  975 California Avenue
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/764,100
;      FILING DATE:  06-DEC-1996
;      CLASSIFICATION:  800
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/214,064
;      FILING DATE:
;      APPLICATION NUMBER:  US 08/032,235
;      FILING DATE:  17-MAR-1993
;      APPLICATION NUMBER:  GB 9206016.9
;      FILING DATE:  19-MAR-1992
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  No. 5773700ris, Allen E.
;      REGISTRATION NUMBER:  34,490
;      REFERENCE/DOCKET NUMBER:  137-1061
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 354-3592
;      TELEFAX:  (415) 857-1125
;  INFORMATION FOR SEQ ID NO:  27:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  3218 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  unknown
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  protein
US-08-764-100-27

  Query Match             68.6%;  Score 35;  DB 1;  Length 3218;
  Best Local Similarity   66.7%;  Pred. No. 1.6e+03;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||   |
Db       1060 CYSLYSVAL 1068


RESULT 39
US-08-869-733-1
; Sequence 1, Application US/08869733
; Patent No. 5955278
;  GENERAL INFORMATION:
;    APPLICANT:  Hillman, Jennifer L.
;    APPLICANT:  Hawkins, Phillip R.
;    TITLE OF INVENTION:  NEW TRANSLATIONAL REGULATOR
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Incyte Pharmaceuticals, Inc.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/869,733
;      FILING DATE:  Herewith
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Billings, Lucy J.
;      REGISTRATION NUMBER:  36,749
;      REFERENCE/DOCKET NUMBER:  PF-0310 US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-855-0555
;      TELEFAX:  415-845-4166
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  100 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      LIBRARY:  BSTMNOT01
;      CLONE:  805296
US-08-869-733-1

  Query Match             66.7%;  Score 34;  DB 1;  Length 100;
  Best Local Similarity   57.1%;  Pred. No. 56;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    6;  Gaps    1;
```

```
Qy          1 CYS------LYGTT 8
              |||      |||||
Db         19 CYSTTPGGTLYGTT 32


RESULT 40
US-09-215-063-1
; Sequence 1, Application US/09215063
; Patent No. 6365714
;   GENERAL INFORMATION:
;        APPLICANT: Hillman, Jennifer L.
;                   Hawkins, Phillip R.
;        TITLE OF INVENTION: NEW TRANSLATIONAL REGULATOR
;        NUMBER OF SEQUENCES: 4
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Incyte Pharmaceuticals, Inc.
;             STREET: 3174 Porter Drive
;             CITY: Palo Alto
;             STATE: CA
;             COUNTRY: USA
;             ZIP: 94304
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Diskette
;             COMPUTER: IBM Compatible
;             OPERATING SYSTEM: DOS
;             SOFTWARE: FastSEQ for Windows Version 2.0
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/215,063
;             FILING DATE: 17-Dec-1998
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 08/869,733
;             FILING DATE: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Billings, Lucy J.
;             REGISTRATION NUMBER: 36,749
;             REFERENCE/DOCKET NUMBER: PF-0310 US
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 415-855-0555
;             TELEFAX: 415-845-4166
;             TELEX: <Unknown>
;   INFORMATION FOR SEQ ID NO: 1:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 100 amino acids
;             TYPE: amino acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        IMMEDIATE SOURCE:
;             LIBRARY: BSTMNOT01
;             CLONE: 805296
;        SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-215-063-1

  Query Match             66.7%;  Score 34;  DB 2;  Length 100;
  Best Local Similarity   57.1%;  Pred. No. 56;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    6;  Gaps    1;

Qy          1 CYS------LYGTT 8
              |||      |||||
Db         19 CYSTTPGGTLYGTT 32


RESULT 41
US-10-096-703-1
; Sequence 1, Application US/10096703
; Patent No. 6677126
;   GENERAL INFORMATION:
;        APPLICANT: Hillman, Jennifer L.
;                   Hawkins, Phillip R.
;        TITLE OF INVENTION: NEW TRANSLATIONAL REGULATOR
;        NUMBER OF SEQUENCES: 4
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Incyte Pharmaceuticals, Inc.
;             STREET: 3174 Porter Drive
;             CITY: Palo Alto
;             STATE: CA
;             COUNTRY: USA
;             ZIP: 94304
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Diskette
;             COMPUTER: IBM Compatible
;             OPERATING SYSTEM: DOS
;             SOFTWARE: FastSEQ for Windows Version 2.0
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/096,703
;             FILING DATE: 12-Mar-2002
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 09/215,063
;             FILING DATE: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Billings, Lucy J.
;             REGISTRATION NUMBER: 36,749
;             REFERENCE/DOCKET NUMBER: PF-0310 US
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 415-855-0555
;             TELEFAX: 415-845-4166
;             TELEX: <Unknown>
;   INFORMATION FOR SEQ ID NO: 1:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 100 amino acids
;             TYPE: amino acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        IMMEDIATE SOURCE:
;             LIBRARY: BSTMNOT01
;             CLONE: 805296
;        SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-096-703-1

  Query Match             66.7%;  Score 34;  DB 2;  Length 100;
  Best Local Similarity   57.1%;  Pred. No. 56;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    6;  Gaps    1;

Qy          1 CYS------LYGTT 8
              |||      |||||
Db         19 CYSTTPGGTLYGTT 32


RESULT 42
US-09-107-532A-6191
; Sequence 6191, Application US/09107532A
; Patent No. 6583275
;   GENERAL INFORMATION:
;        APPLICANT: Lynn A Doucette-Stamm  and David Bush
;        TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;                            ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
;        NUMBER OF SEQUENCES: 7310
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;             STREET: 100 Beaver Street
;             CITY: Waltham
;             STATE: Massachusetts
;             COUNTRY: USA
;             ZIP: 02354
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: CD/ROM ISO9660
;             COMPUTER: PC
;             OPERATING SYSTEM: <Unknown>
;             SOFTWARE: ASCII
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/107,532A
;             FILING DATE: 30-Jun-1998
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 60/085,598
;             FILING DATE: 14 May 1998
```

;  APPLICATION NUMBER: 60/051571
;  FILING DATE: July 2, 1997
;  ATTORNEY/AGENT INFORMATION:
;  NAME: Ariniello, Pamela Deneke
;  REGISTRATION NUMBER: 40,489
;  REFERENCE/DOCKET NUMBER: GTC-012
;  TELECOMMUNICATION INFORMATION:
;  TELEPHONE: (781)893-5007
;  TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 6191:
;  SEQUENCE CHARACTERISTICS:
;  LENGTH: 115 amino acids
;  TYPE: amino acid
;  TOPOLOGY: linear
;  MOLECULE TYPE: protein
;  HYPOTHETICAL: YES
;  ORIGINAL SOURCE:
;  ORGANISM: Enterococcus faecium
;  FEATURE:
;  NAME/KEY: misc_feature
;  LOCATION: (B) LOCATION 1...115
;  SEQUENCE DESCRIPTION: SEQ ID NO: 6191:
US-09-107-532A-6191

Query Match 66.7%; Score 34; DB 2; Length 115;
Best Local Similarity 71.4%; Pred. No. 65;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CYSLYGT 7
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Db 88 CYDLYGS 94

RESULT 43
US-08-887-534A-53
; Sequence 53, Application US/08887534A
; Patent No. 6455323
; GENERAL INFORMATION:
; APPLICANT: Holden, David W.
; TITLE OF INVENTION: ANTI-BACTERIAL METHODS AND MATERIALS
; NUMBER OF SEQUENCES: 106
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 233 South Wacker Drive/6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/887,534A
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Rin-Laures, Li-Hsien
; REGISTRATION NUMBER: 33,547
; REFERENCE/DOCKET NUMBER: 28341/33996
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 474-6300
; TELEFAX: (312) 474-0448
; TELEX: (312) 474-6600
; INFORMATION FOR SEQ ID NO: 53:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 325 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-887-534A-53

Query Match 66.7%; Score 34; DB 2; Length 325;
Best Local Similarity 85.7%; Pred. No. 2e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 YSLYGTT 8
| |||||
Db 25 YDLYGTT 31

RESULT 44
US-09-527-431-53
; Sequence 53, Application US/09527431
; Patent No. 6485899
; GENERAL INFORMATION:
; APPLICANT: Holden, David W.
; TITLE OF INVENTION: ANTI-BACTERIAL METHODS AND MATERIALS
; NUMBER OF SEQUENCES: 106
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 233 South Wacker Drive/6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/527,431
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/887,534
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Rin-Laures, Li-Hsien
; REGISTRATION NUMBER: 33,547
; REFERENCE/DOCKET NUMBER: 28341/33996
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 474-6300
; TELEFAX: (312) 474-0448
; TELEX: (312) 474-6600
; INFORMATION FOR SEQ ID NO: 53:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 325 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-527-431-53

Query Match 66.7%; Score 34; DB 2; Length 325;
Best Local Similarity 85.7%; Pred. No. 2e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 YSLYGTT 8
| |||||
Db 25 YDLYGTT 31

RESULT 45
US-09-446-861-53
; Sequence 53, Application US/09446861
; Patent No. 6740485
; GENERAL INFORMATION:
; APPLICANT: Holden, David W.
; TITLE OF INVENTION: ANTI-BACTERIAL METHODS AND MATERIALS
; NUMBER OF SEQUENCES: 127
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Li-Hsien Rin-Laures, M.D.
; STREET: 6300 Sears Tower 233 South Wacker Drive
; CITY: Chicago

```
;              STATE: IL
;              COUNTRY: United States of America
;              ZIP: 60606
;         COMPUTER READABLE FORM:
;              MEDIUM TYPE: Floppy disk
;              COMPUTER: IBM PC compatible
;              OPERATING SYSTEM: PC-DOS/MS-DOS
;              SOFTWARE: PatentIn Release #1.0, Version #1.30
;         CURRENT APPLICATION DATA:
;              APPLICATION NUMBER: US/09/446,861
;              FILING DATE: 22-Mar-2000
;              CLASSIFICATION: <Unknown>
;         ATTORNEY/AGENT INFORMATION:
;              NAME: Li-Hsien Rin-Laures, M.D.
;              REGISTRATION NUMBER: 33,547
;              REFERENCE/DOCKET NUMBER: 28341/6314.PCP
;         TELECOMMUNICATION INFORMATION:
;              TELEPHONE: (312)474-6300
;              TELEFAX: (312)474-0448
;    INFORMATION FOR SEQ ID NO: 53:
;         SEQUENCE CHARACTERISTICS:
;              LENGTH: 325 amino acids
;              TYPE: amino acid
;              TOPOLOGY: linear
;         MOLECULE TYPE: protein
;         SEQUENCE DESCRIPTION: SEQ ID NO: 53:
US-09-446-861-53

  Query Match             66.7%;  Score 34;  DB 2;  Length 325;
  Best Local Similarity   85.7%;  Pred. No. 2e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YSLYGTT 8
              | |||||
Db         25 YDLYGTT 31


RESULT 46
US-09-902-540-12868
; Sequence 12868, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
;  APPLICANT: Goldman, Barry S.
;  APPLICANT:  Hinkle, Gregory J.
;  APPLICANT:  Slater, Steven C.
;  APPLICANT:  Wiegand, Roger C.
;  TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
;  FILE REFERENCE: 38-10(15849)B
;  CURRENT APPLICATION NUMBER: US/09/902,540
;  CURRENT FILING DATE:  2001-07-10
;  PRIOR APPLICATION NUMBER: 60/217,883
;  PRIOR FILING DATE: 2000-07-10
;  NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 12868
;   LENGTH: 325
;   TYPE: PRT
;   ORGANISM: Myxococcus xanthus
US-09-902-540-12868

  Query Match             66.7%;  Score 34;  DB 2;  Length 325;
  Best Local Similarity   85.7%;  Pred. No. 2e+02;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 YSLYGTT 8
              |||||:|
Db         17 YSLYGST 23


RESULT 47
US-09-931-381A-20
; Sequence 20, Application US/09931381A
; Patent No. 6692922
; GENERAL INFORMATION:
;  APPLICANT: Butcher, Eugene C.
;  APPLICANT:  Kunkel, Eric J.
;  APPLICANT:  Pan, Junliang
;  APPLICANT:  Soler-Ferran, Dulce
;  TITLE OF INVENTION: Method for Identifying Agents Which
;  TITLE OF INVENTION:  Modulate Chemokine "MEC"-Induced Functions of CCR3 and/or
;  TITLE OF INVENTION:  CCR10
;  FILE REFERENCE: 1855.2010-003
;  CURRENT APPLICATION NUMBER: US/09/931,381A
;  CURRENT FILING DATE:  2001-08-15
;  PRIOR APPLICATION NUMBER: U.S. 09/638,914
;  PRIOR FILING DATE: 2000-08-15
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 20
;   LENGTH: 361
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-931-381A-20

  Query Match             66.7%;  Score 34;  DB 2;  Length 361;
  Best Local Similarity   66.7%;  Pred. No. 2.3e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              ||:| | ||
Db        226 CYALLGRTL 234


RESULT 48
US-09-931-381A-18
; Sequence 18, Application US/09931381A
; Patent No. 6692922
; GENERAL INFORMATION:
;  APPLICANT: Butcher, Eugene C.
;  APPLICANT:  Kunkel, Eric J.
;  APPLICANT:  Pan, Junliang
;  APPLICANT:  Soler-Ferran, Dulce
;  TITLE OF INVENTION: Method for Identifying Agents Which
;  TITLE OF INVENTION:  Modulate Chemokine "MEC"-Induced Functions of CCR3 and/or
;  TITLE OF INVENTION:  CCR10
;  FILE REFERENCE: 1855.2010-003
;  CURRENT APPLICATION NUMBER: US/09/931,381A
;  CURRENT FILING DATE:  2001-08-15
;  PRIOR APPLICATION NUMBER: U.S. 09/638,914
;  PRIOR FILING DATE: 2000-08-15
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 18
;   LENGTH: 362
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-931-381A-18

  Query Match             66.7%;  Score 34;  DB 2;  Length 362;
  Best Local Similarity   66.7%;  Pred. No. 2.3e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              ||:| | ||
Db        226 CYALLGRTL 234


RESULT 49
US-09-898-751A-2
; Sequence 2, Application US/09898751A
; Patent No. 6824781
; GENERAL INFORMATION:
;  APPLICANT: Oldham, Elizabeth R.
;  APPLICANT:  Soto, Hortensia
;  APPLICANT:  Liu, Ying
;  APPLICANT:  Hudak, Susan A.
;  APPLICANT:  Homey, Bernhard
```

; APPLICANT: Morales, Janine M.
; APPLICANT: Kellerman, Sirid-Aimee
; APPLICANT: McEvoy, Leslie M.
; APPLICANT: Bowman, Edward P.
; APPLICANT: Zlotnik, Albert
; TITLE OF INVENTION: CHEMOKINE AND RECEPTOR USES; COMPOSITIONS; METHODS
; FILE REFERENCE: DX0882XK
; CURRENT APPLICATION NUMBER: US/09/898,751A
; CURRENT FILING DATE: 2001-07-02
; PRIOR APPLICATION NUMBER: US09/471,549
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: US60/136,570
; PRIOR FILING DATE: 1999-05-27
; PRIOR APPLICATION NUMBER: US60/113,858
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 362
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-898-751A-2

Query Match 66.7%; Score 34; DB 2; Length 362;
Best Local Similarity 66.7%; Pred. No. 2.3e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CYSLYGTTL 9
||:| | ||
Db 226 CYALLGRTL 234

RESULT 50
US-09-898-751A-4
; Sequence 4, Application US/09898751A
; Patent No. 6824781
; GENERAL INFORMATION:
; APPLICANT: Oldham, Elizabeth R.
; APPLICANT: Soto, Hortensia
; APPLICANT: Liu, Ying
; APPLICANT: Hudak, Susan A.
; APPLICANT: Homey, Bernhard
; APPLICANT: Morales, Janine M.
; APPLICANT: Kellerman, Sirid-Aimee
; APPLICANT: McEvoy, Leslie M.
; APPLICANT: Bowman, Edward P.
; APPLICANT: Zlotnik, Albert
; TITLE OF INVENTION: CHEMOKINE AND RECEPTOR USES; COMPOSITIONS; METHODS
; FILE REFERENCE: DX0882XK
; CURRENT APPLICATION NUMBER: US/09/898,751A
; CURRENT FILING DATE: 2001-07-02
; PRIOR APPLICATION NUMBER: US09/471,549
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: US60/136,570
; PRIOR FILING DATE: 1999-05-27
; PRIOR APPLICATION NUMBER: US60/113,858
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 362
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-898-751A-4

Query Match 66.7%; Score 34; DB 2; Length 362;
Best Local Similarity 66.7%; Pred. No. 2.3e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CYSLYGTTL 9
||:| | ||
Db 226 CYALLGRTL 234

Search completed: May 5, 2006, 04:00:59
Job time : 24 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:07:45 ; Search time 55.8 Seconds
(without alignments)
67.392 Million cell updates/sec

Title: US-08-170-344-72
Perfect score: 51
Sequence: 1 CYSLYGTTL 9

Scoring table: BLOSUM62
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Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_Main:*
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
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| 3 | 51 | 100.0 | 15 | 4 | US-10-476-570-34 | Sequence 34, Appl |
| 4 | 51 | 100.0 | 20 | 4 | US-10-476-570-12 | Sequence 12, Appl |
| 5 | 51 | 100.0 | 23 | 5 | US-10-751-845-66 | Sequence 66, Appl |
| 6 | 51 | 100.0 | 29 | 4 | US-10-476-570-55 | Sequence 55, Appl |
| 7 | 51 | 100.0 | 29 | 5 | US-10-858-384-8 | Sequence 8, Appli |
| 8 | 51 | 100.0 | 117 | 5 | US-10-751-845-126 | Sequence 126, App |
| 9 | 51 | 100.0 | 158 | 5 | US-10-858-384-2 | Sequence 2, Appli |
| 10 | 51 | 100.0 | 158 | 5 | US-10-367-057-16 | Sequence 16, Appl |
| 11 | 51 | 100.0 | 158 | 6 | US-11-021-949-13 | Sequence 13, Appl |
| 12 | 51 | 100.0 | 171 | 4 | US-10-472-724-2 | Sequence 2, Appli |
| 13 | 51 | 100.0 | 236 | 5 | US-10-751-845-157 | Sequence 157, App |
| 14 | 51 | 100.0 | 237 | 5 | US-10-751-845-158 | Sequence 158, App |
| 15 | 51 | 100.0 | 243 | 6 | US-11-072-288-1 | Sequence 1, Appli |
| 16 | 51 | 100.0 | 261 | 5 | US-10-751-845-160 | Sequence 160, App |
| 17 | 51 | 100.0 | 266 | 3 | US-09-367-309A-1 | Sequence 1, Appli |
| 18 | 51 | 100.0 | 273 | 4 | US-10-000-903-4 | Sequence 4, Appli |
| 19 | 51 | 100.0 | 273 | 5 | US-10-899-771-4 | Sequence 4, Appli |
| 20 | 51 | 100.0 | 292 | 4 | US-10-000-903-10 | Sequence 10, Appl |
| 21 | 51 | 100.0 | 292 | 5 | US-10-899-771-10 | Sequence 10, Appl |
| 22 | 51 | 100.0 | 371 | 4 | US-10-000-903-6 | Sequence 6, Appli |
| 23 | 51 | 100.0 | 371 | 5 | US-10-899-771-6 | Sequence 6, Appli |
| 24 | 51 | 100.0 | 390 | 4 | US-10-000-903-14 | Sequence 14, Appl |
| 25 | 51 | 100.0 | 390 | 5 | US-10-899-771-14 | Sequence 14, Appl |
| 26 | 49 | 96.1 | 10 | 5 | US-10-751-845-79 | Sequence 79, Appl |
| 27 | 48 | 94.1 | 151 | 4 | US-10-177-390-6 | Sequence 6, Appli |
| 28 | 48 | 94.1 | 151 | 5 | US-10-484-063-20 | Sequence 20, Appl |
| 29 | 48 | 94.1 | 151 | 5 | US-10-484-063-27 | Sequence 27, Appl |
| 30 | 47 | 92.2 | 10 | 5 | US-10-751-845-91 | Sequence 91, Appl |
| 31 | 42 | 82.4 | 9 | 5 | US-10-751-845-88 | Sequence 88, Appl |
| 32 | 39 | 76.5 | 149 | 6 | US-11-021-949-18 | Sequence 18, Appl |
| 33 | 38 | 74.5 | 88 | 4 | US-10-425-115-334474 | Sequence 334474, |
| 34 | 38 | 74.5 | 1013 | 4 | US-10-282-122A-77615 | Sequence 77615, A |
| 35 | 37 | 72.5 | 9 | 3 | US-09-832-723-103 | Sequence 103, App |
| 36 | 37 | 72.5 | 9 | 4 | US-10-303-331-103 | Sequence 103, App |
| 37 | 37 | 72.5 | 9 | 5 | US-10-968-732-103 | Sequence 103, App |
| 38 | 37 | 72.5 | 9 | 5 | US-10-971-596-30 | Sequence 30, Appl |
| 39 | 37 | 72.5 | 10 | 5 | US-10-984-514-9 | Sequence 9, Appli |
| 40 | 37 | 72.5 | 13 | 5 | US-10-984-270A-43 | Sequence 43, Appl |
| 41 | 37 | 72.5 | 15 | 4 | US-10-476-570-32 | Sequence 32, Appl |
| 42 | 37 | 72.5 | 61 | 4 | US-10-044-359-4 | Sequence 4, Appli |
| 43 | 37 | 72.5 | 71 | 4 | US-10-425-115-349387 | Sequence 349387, |
| 44 | 37 | 72.5 | 71 | 5 | US-10-971-596-15 | Sequence 15, Appl |
| 45 | 37 | 72.5 | 71 | 5 | US-10-971-596-16 | Sequence 16, Appl |
| 46 | 37 | 72.5 | 71 | 5 | US-10-971-596-17 | Sequence 17, Appl |
| 47 | 37 | 72.5 | 71 | 5 | US-10-984-270A-22 | Sequence 22, Appl |
| 48 | 37 | 72.5 | 71 | 5 | US-10-984-270A-23 | Sequence 23, Appl |
| 49 | 37 | 72.5 | 71 | 5 | US-10-984-270A-24 | Sequence 24, Appl |
| 50 | 37 | 72.5 | 73 | 5 | US-10-984-514-4 | Sequence 4, Appli |
| 51 | 37 | 72.5 | 82 | 4 | US-10-425-115-219864 | Sequence 219864, |
| 52 | 37 | 72.5 | 87 | 5 | US-10-984-514-180 | Sequence 180, App |
| 53 | 37 | 72.5 | 705 | 5 | US-10-450-763-60071 | Sequence 60071, A |
| 54 | 36 | 70.6 | 27 | 4 | US-10-425-115-366746 | Sequence 366746, |
| 55 | 36 | 70.6 | 91 | 4 | US-10-289-762-1162 | Sequence 1162, Ap |
| 56 | 36 | 70.6 | 148 | 6 | US-11-021-949-17 | Sequence 17, Appl |
| 57 | 36 | 70.6 | 149 | 6 | US-11-021-949-15 | Sequence 15, Appl |
| 58 | 36 | 70.6 | 841 | 6 | US-11-097-143-33093 | Sequence 33093, A |
| 59 | 36 | 70.6 | 1063 | 4 | US-10-149-310-294 | Sequence 294, App |
| 60 | 36 | 70.6 | 1068 | 3 | US-09-801-368-242 | Sequence 242, App |
| 61 | 36 | 70.6 | 1068 | 4 | US-10-149-310-292 | Sequence 292, App |
| 62 | 36 | 70.6 | 1618 | 3 | US-09-742-153-4 | Sequence 4, Appli |
| 63 | 36 | 70.6 | 2887 | 3 | US-09-742-153-2 | Sequence 2, Appli |
| 64 | 36 | 70.6 | 2887 | 3 | US-09-742-153-8 | Sequence 8, Appli |
| 65 | 35 | 68.6 | 15 | 4 | US-10-476-570-36 | Sequence 36, Appl |
| 66 | 35 | 68.6 | 37 | 4 | US-10-437-963-167861 | Sequence 167861, |
| 67 | 35 | 68.6 | 53 | 4 | US-10-425-115-207152 | Sequence 207152, |
| 68 | 35 | 68.6 | 60 | 4 | US-10-424-599-262973 | Sequence 262973, |
| 69 | 35 | 68.6 | 89 | 4 | US-10-425-115-347141 | Sequence 347141, |
| 70 | 35 | 68.6 | 96 | 4 | US-10-425-115-195893 | Sequence 195893, |
| 71 | 35 | 68.6 | 115 | 4 | US-10-424-599-247408 | Sequence 247408, |
| 72 | 35 | 68.6 | 372 | 4 | US-10-282-122A-45881 | Sequence 45881, A |
| 73 | 35 | 68.6 | 424 | 5 | US-10-501-282-1488 | Sequence 1488, Ap |
| 74 | 35 | 68.6 | 828 | 4 | US-10-282-122A-57226 | Sequence 57226, A |
| 75 | 35 | 68.6 | 831 | 3 | US-09-815-242-10520 | Sequence 10520, A |
| 76 | 35 | 68.6 | 911 | 3 | US-09-855-824-4 | Sequence 4, Appli |
| 77 | 35 | 68.6 | 911 | 5 | US-10-476-542-4 | Sequence 4, Appli |
| 78 | 35 | 68.6 | 961 | 3 | US-09-930-512-67 | Sequence 67, Appl |
| 79 | 35 | 68.6 | 961 | 4 | US-10-406-073-13 | Sequence 13, Appl |
| 80 | 35 | 68.6 | 961 | 4 | US-10-231-913-88 | Sequence 88, Appl |
| 81 | 35 | 68.6 | 961 | 4 | US-10-029-020-35 | Sequence 35, Appl |
| 82 | 35 | 68.6 | 1055 | 4 | US-10-343-710-81 | Sequence 81, Appl |
| 83 | 35 | 68.6 | 1058 | 4 | US-10-343-710-79 | Sequence 79, Appl |
| 84 | 34 | 66.7 | 46 | 4 | US-10-425-115-211382 | Sequence 211382, |
| 85 | 34 | 66.7 | 86 | 4 | US-10-425-115-365580 | Sequence 365580, |
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| 91 | 34 | 66.7 | 149 | 6 | US-11-021-949-360 | Sequence 360, App |
| 92 | 34 | 66.7 | 155 | 6 | US-11-021-949-22 | Sequence 22, Appl |
| 93 | 34 | 66.7 | 155 | 6 | US-11-021-949-23 | Sequence 23, Appl |
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| 102 | 34 | 66.7 | 345 | 4 | US-10-369-493-5270 | Sequence 5270, Ap |
| 103 | 34 | 66.7 | 345 | 4 | US-10-369-493-6657 | Sequence 6657, Ap |
| 104 | 34 | 66.7 | 348 | 4 | US-10-369-493-1824 | Sequence 1824, Ap |
| 105 | 34 | 66.7 | 348 | 4 | US-10-389-566-2282 | Sequence 2282, Ap |
| 106 | 34 | 66.7 | 348 | 5 | US-10-732-923-17964 | Sequence 17964, A |
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| 108 | 34 | 66.7 | 362 | 3 | US-09-931-381A-18 | Sequence 18, Appl |
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| 110 | 34 | 66.7 | 362 | 3 | US-09-898-751A-4 | Sequence 4, Appli |
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| 112 | 34 | 66.7 | 362 | 4 | US-10-239-423-74 | Sequence 74, Appl |
| 113 | 34 | 66.7 | 362 | 5 | US-10-989-826-26 | Sequence 26, Appl |
| 114 | 34 | 66.7 | 421 | 3 | US-09-741-669-400 | Sequence 400, App |
| 115 | 34 | 66.7 | 421 | 4 | US-10-282-122A-42751 | Sequence 42751, A |
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| 123 | 34 | 66.7 | 876 | 5 | US-10-501-282-2588 | Sequence 2588, Ap |
| 124 | 34 | 66.7 | 895 | 5 | US-10-501-282-2590 | Sequence 2590, Ap |
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| 143 | 33 | 64.7 | 153 | 6 | US-11-021-949-20 | Sequence 20, Appl |
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| 148 | 33 | 64.7 | 308 | 4 | US-10-369-493-6660 | Sequence 6660, Ap |
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| 158 | 33 | 64.7 | 557 | 4 | US-10-320-797-3251 | Sequence 3251, Ap |
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| 160 | 33 | 64.7 | 564 | 4 | US-10-080-170-324 | Sequence 324, App |
| 161 | 33 | 64.7 | 564 | 4 | US-10-468-356-324 | Sequence 324, App |
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| 163 | 33 | 64.7 | 2025 | 4 | US-10-343-710-116 | Sequence 116, App |
| 164 | 33 | 64.7 | 4215 | 6 | US-11-097-143-3987 | Sequence 3987, Ap |
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| 172 | 32.5 | 63.7 | 1101 | 3 | US-09-972-484-52 | Sequence 52, Appl |
| 173 | 32.5 | 63.7 | 1101 | 3 | US-09-972-484-54 | Sequence 54, Appl |
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| 176 | 32.5 | 63.7 | 1335 | 5 | US-10-900-122-4 | Sequence 4, Appli |
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| 186 | 32 | 62.7 | 66 | 4 | US-10-741-790-210 | Sequence 210, App |
| 187 | 32 | 62.7 | 68 | 4 | US-10-425-115-209132 | Sequence 209132, |
| 188 | 32 | 62.7 | 74 | 4 | US-10-424-599-193846 | Sequence 193846, |
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| 193 | 32 | 62.7 | 123 | 4 | US-10-767-701-50223 | Sequence 50223, A |
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| 205 | 32 | 62.7 | 215 | 4 | US-10-128-520-106 | Sequence 106, App |
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| 222 | 32 | 62.7 | 339 | 5 | US-10-844-736-2 | Sequence 2, Appli |
| 223 | 32 | 62.7 | 339 | 5 | US-10-648-694-2 | Sequence 2, Appli |
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| 235 | 32 | 62.7 | 414 | 4 | US-10-424-599-213840 | Sequence 213840, |
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| 274 | 32 | 62.7 | 753 | 3 | US-09-759-130B-205 | Sequence 205, App |
| 275 | 32 | 62.7 | 753 | 4 | US-10-741-790-205 | Sequence 205, App |
| 276 | 32 | 62.7 | 764 | 4 | US-10-406-073-17 | Sequence 17, Appl |
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| 279 | 32 | 62.7 | 785 | 4 | US-10-195-142-8 | Sequence 8, Appli |
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| 281 | 32 | 62.7 | 816 | 4 | US-10-741-790-216 | Sequence 216, App |
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| 285 | 32 | 62.7 | 838 | 4 | US-10-343-710-112 | Sequence 112, App |
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| 289 | 32 | 62.7 | 962 | 5 | US-10-357-819-36 | Sequence 36, Appl |
| 290 | 32 | 62.7 | 964 | 4 | US-10-239-663-58 | Sequence 58, Appl |
| 291 | 32 | 62.7 | 964 | 4 | US-10-231-913-16 | Sequence 16, Appl |
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| 296 | 32 | 62.7 | 978 | 5 | US-10-357-819-40 | Sequence 40, Appl |
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| 298 | 32 | 62.7 | 988 | 4 | US-10-195-142-2 | Sequence 2, Appli |
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| 324 | 32 | 62.7 | 1036 | 4 | US-10-123-261-142 | Sequence 142, App |
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| 598 | 32 | 62.7 | 1036 | 4 | US-10-147-505-142 | Sequence 142, App |
| 599 | 32 | 62.7 | 1036 | 4 | US-10-147-516-142 | Sequence 142, App |
| 600 | 32 | 62.7 | 1036 | 4 | US-10-152-398-142 | Sequence 142, App |
| 601 | 32 | 62.7 | 1036 | 4 | US-10-139-980-142 | Sequence 142, App |
| 602 | 32 | 62.7 | 1036 | 4 | US-10-145-750-142 | Sequence 142, App |
| 603 | 32 | 62.7 | 1036 | 4 | US-10-152-373-142 | Sequence 142, App |
| 604 | 32 | 62.7 | 1036 | 4 | US-10-121-044-142 | Sequence 142, App |
| 605 | 32 | 62.7 | 1036 | 4 | US-10-121-055-142 | Sequence 142, App |
| 606 | 32 | 62.7 | 1036 | 4 | US-10-121-057-142 | Sequence 142, App |
| 607 | 32 | 62.7 | 1036 | 4 | US-10-121-058-142 | Sequence 142, App |
| 608 | 32 | 62.7 | 1036 | 4 | US-10-121-059-142 | Sequence 142, App |
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| 610 | 32 | 62.7 | 1036 | 4 | US-10-123-109-142 | Sequence 142, App |
| 611 | 32 | 62.7 | 1036 | 4 | US-10-123-154-142 | Sequence 142, App |
| 612 | 32 | 62.7 | 1036 | 4 | US-10-123-157-142 | Sequence 142, App |
| 613 | 32 | 62.7 | 1036 | 4 | US-10-123-906-142 | Sequence 142, App |
| 614 | 32 | 62.7 | 1036 | 4 | US-10-124-814-142 | Sequence 142, App |
| 615 | 32 | 62.7 | 1036 | 4 | US-10-124-816-142 | Sequence 142, App |
| 616 | 32 | 62.7 | 1036 | 4 | US-10-124-820-142 | Sequence 142, App |
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| 620 | 32 | 62.7 | 1036 | 4 | US-10-145-874-142 | Sequence 142, App |
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| 631 | 32 | 62.7 | 1036 | 4 | US-10-157-794-142 | Sequence 142, App |
| 632 | 32 | 62.7 | 1036 | 4 | US-10-157-796-142 | Sequence 142, App |
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| 635 | 32 | 62.7 | 1036 | 4 | US-10-123-156-142 | Sequence 142, App |
| 636 | 32 | 62.7 | 1036 | 4 | US-10-123-214-142 | Sequence 142, App |
| 637 | 32 | 62.7 | 1036 | 4 | US-10-125-805-142 | Sequence 142, App |
| 638 | 32 | 62.7 | 1036 | 4 | US-10-124-821-142 | Sequence 142, App |
| 639 | 32 | 62.7 | 1036 | 4 | US-10-152-385-142 | Sequence 142, App |
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| 659 | 32 | 62.7 | 1036 | 4 | US-10-123-911-142 | Sequence 142, App |
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| 668 | 32 | 62.7 | 1036 | 4 | US-10-146-728-142 | Sequence 142, App |
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| 678 | 32 | 62.7 | 1036 | 4 | US-10-141-703-142 | Sequence 142, App |
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| 682 | 32 | 62.7 | 1036 | 4 | US-10-142-428-142 | Sequence 142, App |
| 683 | 32 | 62.7 | 1036 | 4 | US-10-142-429-142 | Sequence 142, App |
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| 706 | 32 | 62.7 | 1036 | 4 | US-10-157-802-142 | Sequence 142, App |
| 707 | 32 | 62.7 | 1036 | 4 | US-10-158-784-142 | Sequence 142, App |
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| 709 | 32 | 62.7 | 1036 | 4 | US-10-192-011-142 | Sequence 142, App |
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| 712 | 32 | 62.7 | 1036 | 4 | US-10-140-023-142 | Sequence 142, App |
| 713 | 32 | 62.7 | 1036 | 4 | US-10-140-809-142 | Sequence 142, App |
| 714 | 32 | 62.7 | 1036 | 4 | US-10-140-865-142 | Sequence 142, App |
| 715 | 32 | 62.7 | 1036 | 4 | US-10-141-701-142 | Sequence 142, App |
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| 717 | 32 | 62.7 | 1036 | 4 | US-10-141-760-142 | Sequence 142, App |
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| 720 | 32 | 62.7 | 1036 | 4 | US-10-143-113-142 | Sequence 142, App |
| 721 | 32 | 62.7 | 1036 | 4 | US-10-146-730-142 | Sequence 142, App |
| 722 | 32 | 62.7 | 1036 | 4 | US-10-146-792-142 | Sequence 142, App |
| 723 | 32 | 62.7 | 1036 | 4 | US-10-158-791-142 | Sequence 142, App |
| 724 | 32 | 62.7 | 1036 | 4 | US-10-156-843-142 | Sequence 142, App |
| 725 | 32 | 62.7 | 1036 | 4 | US-10-157-786-142 | Sequence 142, App |
| 726 | 32 | 62.7 | 1036 | 4 | US-10-152-405-142 | Sequence 142, App |
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| 733 | 32 | 62.7 | 1036 | 4 | US-10-160-503-142 | Sequence 142, App |
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| 735 | 32 | 62.7 | 1036 | 4 | US-10-144-993-142 | Sequence 142, App |
| 736 | 32 | 62.7 | 1036 | 4 | US-10-158-787-142 | Sequence 142, App |
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| 739 | 32 | 62.7 | 1036 | 4 | US-10-147-536-142 | Sequence 142, App |
| 740 | 32 | 62.7 | 1036 | 4 | US-10-152-372-142 | Sequence 142, App |
| 741 | 32 | 62.7 | 1036 | 4 | US-10-796-174-60 | Sequence 60, Appl |
| 742 | 32 | 62.7 | 1036 | 4 | US-10-755-889-430 | Sequence 430, App |
| 743 | 32 | 62.7 | 1036 | 4 | US-10-125-795-142 | Sequence 142, App |
| 744 | 32 | 62.7 | 1036 | 4 | US-10-145-626-142 | Sequence 142, App |
| 745 | 32 | 62.7 | 1036 | 4 | US-10-145-819-142 | Sequence 142, App |
| 746 | 32 | 62.7 | 1036 | 4 | US-10-145-825-142 | Sequence 142, App |
| 747 | 32 | 62.7 | 1036 | 4 | US-10-147-513-142 | Sequence 142, App |
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| 750 | 32 | 62.7 | 1036 | 5 | US-10-821-273-74 | Sequence 74, Appl |
| 751 | 32 | 62.7 | 1036 | 5 | US-10-147-488-142 | Sequence 142, App |
| 752 | 32 | 62.7 | 1036 | 5 | US-10-147-531-142 | Sequence 142, App |
| 753 | 32 | 62.7 | 1036 | 5 | US-10-931-886-142 | Sequence 142, App |
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| 755 | 32 | 62.7 | 1036 | 5 | US-10-955-952-142 | Sequence 142, App |
| 756 | 32 | 62.7 | 1037 | 4 | US-10-152-724A-3 | Sequence 3, Appli |
| 757 | 32 | 62.7 | 1048 | 4 | US-10-152-724A-4 | Sequence 4, Appli |
| 758 | 32 | 62.7 | 1074 | 4 | US-10-282-122A-50616 | Sequence 50616, A |
| 759 | 32 | 62.7 | 1127 | 5 | US-10-491-653-144 | Sequence 144, App |
| 760 | 32 | 62.7 | 1233 | 4 | US-10-343-710-85 | Sequence 85, Appl |
| 761 | 32 | 62.7 | 1234 | 4 | US-10-343-710-83 | Sequence 83, Appl |
| 762 | 32 | 62.7 | 1425 | 4 | US-10-437-963-109537 | Sequence 109537, |
| 763 | 32 | 62.7 | 1445 | 6 | US-11-097-143-20649 | Sequence 20649, A |
| 764 | 32 | 62.7 | 1446 | 5 | US-10-732-923-8315 | Sequence 8315, Ap |
| 765 | 32 | 62.7 | 1495 | 3 | US-09-742-153-12 | Sequence 12, Appl |
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| 768 | 32 | 62.7 | 1592 | 5 | US-10-343-903-5 | Sequence 5, Appli |
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| 771 | 32 | 62.7 | 6238 | 4 | US-10-343-710-71 | Sequence 71, Appl |
| 772 | 31.5 | 61.8 | 26 | 5 | US-10-661-156-287 | Sequence 287, App |
| 773 | 31 | 60.8 | 9 | 3 | US-09-881-636-146 | Sequence 146, App |
| 774 | 31 | 60.8 | 9 | 3 | US-09-881-636-363 | Sequence 363, App |
| 775 | 31 | 60.8 | 9 | 3 | US-09-881-636-430 | Sequence 430, App |
| 776 | 31 | 60.8 | 9 | 3 | US-09-881-636-452 | Sequence 452, App |
| 777 | 31 | 60.8 | 9 | 3 | US-09-881-636-556 | Sequence 556, App |
| 778 | 31 | 60.8 | 9 | 3 | US-09-881-636-642 | Sequence 642, App |
| 779 | 31 | 60.8 | 10 | 3 | US-09-881-636-171 | Sequence 171, App |
| 780 | 31 | 60.8 | 10 | 3 | US-09-881-636-276 | Sequence 276, App |
| 781 | 31 | 60.8 | 10 | 3 | US-09-881-636-389 | Sequence 389, App |
| 782 | 31 | 60.8 | 10 | 3 | US-09-881-636-417 | Sequence 417, App |
| 783 | 31 | 60.8 | 10 | 3 | US-09-881-636-471 | Sequence 471, App |
| 784 | 31 | 60.8 | 10 | 3 | US-09-881-636-611 | Sequence 611, App |
| 785 | 31 | 60.8 | 10 | 3 | US-09-881-636-717 | Sequence 717, App |
| 786 | 31 | 60.8 | 10 | 5 | US-10-751-845-90 | Sequence 90, Appl |
| 787 | 31 | 60.8 | 10 | 5 | US-10-751-845-93 | Sequence 93, Appl |
| 788 | 31 | 60.8 | 19 | 4 | US-10-029-386-29977 | Sequence 29977, A |
| 789 | 31 | 60.8 | 25 | 4 | US-10-424-599-284860 | Sequence 284860, |
| 790 | 31 | 60.8 | 33 | 4 | US-10-083-259-20 | Sequence 20, Appl |
| 791 | 31 | 60.8 | 34 | 4 | US-10-425-115-343297 | Sequence 343297, |
| 792 | 31 | 60.8 | 38 | 4 | US-10-437-963-140279 | Sequence 140279, |
| 793 | 31 | 60.8 | 40 | 4 | US-10-437-963-170113 | Sequence 170113, |
| 794 | 31 | 60.8 | 44 | 5 | US-10-926-683-903 | Sequence 903, App |
| 795 | 31 | 60.8 | 48 | 4 | US-10-425-115-368309 | Sequence 368309, |
| 796 | 31 | 60.8 | 52 | 4 | US-10-425-115-295639 | Sequence 295639, |
| 797 | 31 | 60.8 | 54 | 4 | US-10-437-963-161423 | Sequence 161423, |
| 798 | 31 | 60.8 | 57 | 4 | US-10-424-599-242611 | Sequence 242611, |
| 799 | 31 | 60.8 | 59 | 4 | US-10-424-599-178142 | Sequence 178142, |
| 800 | 31 | 60.8 | 61 | 4 | US-10-424-599-265361 | Sequence 265361, |
| 801 | 31 | 60.8 | 64 | 4 | US-10-424-599-152153 | Sequence 152153, |
| 802 | 31 | 60.8 | 66 | 4 | US-10-106-698-4357 | Sequence 4357, Ap |
| 803 | 31 | 60.8 | 70 | 4 | US-10-231-417-171 | Sequence 171, App |
| 804 | 31 | 60.8 | 75 | 4 | US-10-437-963-148575 | Sequence 148575, |
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| 806 | 31 | 60.8 | 85 | 4 | US-10-425-115-306403 | Sequence 306403, |
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| 808 | 31 | 60.8 | 92 | 4 | US-10-424-599-278884 | Sequence 278884, |
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| 813 | 31 | 60.8 | 105 | 4 | US-10-425-115-311577 | Sequence 311577, |
| 814 | 31 | 60.8 | 105 | 4 | US-10-425-115-346099 | Sequence 346099, |
| 815 | 31 | 60.8 | 106 | 4 | US-10-424-599-227924 | Sequence 227924, |
| 816 | 31 | 60.8 | 123 | 3 | US-09-739-254-130 | Sequence 130, App |
| 817 | 31 | 60.8 | 123 | 3 | US-09-904-615-130 | Sequence 130, App |
| 818 | 31 | 60.8 | 123 | 4 | US-10-054-988-130 | Sequence 130, App |
| 819 | 31 | 60.8 | 126 | 4 | US-10-424-599-269263 | Sequence 269263, |
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| 821 | 31 | 60.8 | 130 | 4 | US-10-437-963-186970 | Sequence 186970, |
| 822 | 31 | 60.8 | 132 | 4 | US-10-425-115-195699 | Sequence 195699, |
| 823 | 31 | 60.8 | 137 | 4 | US-10-425-115-321440 | Sequence 321440, |
| 824 | 31 | 60.8 | 142 | 3 | US-09-925-300-1173 | Sequence 1173, Ap |
| 825 | 31 | 60.8 | 151 | 4 | US-10-425-115-252506 | Sequence 252506, |
| 826 | 31 | 60.8 | 153 | 4 | US-10-437-963-179318 | Sequence 179318, |
| 827 | 31 | 60.8 | 156 | 4 | US-10-767-701-59615 | Sequence 59615, A |
| 828 | 31 | 60.8 | 157 | 4 | US-10-767-701-55554 | Sequence 55554, A |
| 829 | 31 | 60.8 | 158 | 3 | US-09-808-701A-20 | Sequence 20, Appl |
| 830 | 31 | 60.8 | 158 | 4 | US-10-233-131-20 | Sequence 20, Appl |

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| 832 | 31 | 60.8 | 158 | 5 | US-10-291-128-72 | Sequence 72, Appl |
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| 834 | 31 | 60.8 | 166 | 4 | US-10-029-386-32531 | Sequence 32531, A |
| 835 | 31 | 60.8 | 171 | 4 | US-10-437-963-153408 | Sequence 153408, |
| 836 | 31 | 60.8 | 179 | 3 | US-09-864-761-43216 | Sequence 43216, A |
| 837 | 31 | 60.8 | 180 | 4 | US-10-163-866-50 | Sequence 50, Appl |
| 838 | 31 | 60.8 | 184 | 5 | US-10-868-381-34 | Sequence 34, Appl |
| 839 | 31 | 60.8 | 184 | 5 | US-10-722-045-48 | Sequence 48, Appl |
| 840 | 31 | 60.8 | 186 | 5 | US-10-722-045-49 | Sequence 49, Appl |
| 841 | 31 | 60.8 | 186 | 5 | US-10-722-045-50 | Sequence 50, Appl |
| 842 | 31 | 60.8 | 189 | 3 | US-09-739-254-70 | Sequence 70, Appl |
| 843 | 31 | 60.8 | 189 | 3 | US-09-904-615-70 | Sequence 70, Appl |
| 844 | 31 | 60.8 | 189 | 4 | US-10-054-988-70 | Sequence 70, Appl |
| 845 | 31 | 60.8 | 191 | 3 | US-09-881-636-7 | Sequence 7, Appli |
| 846 | 31 | 60.8 | 191 | 6 | US-11-097-143-267 | Sequence 267, App |
| 847 | 31 | 60.8 | 193 | 3 | US-09-809-545A-4 | Sequence 4, Appli |
| 848 | 31 | 60.8 | 193 | 3 | US-09-881-636-2 | Sequence 2, Appli |
| 849 | 31 | 60.8 | 193 | 4 | US-10-368-803-5 | Sequence 5, Appli |
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| 851 | 31 | 60.8 | 193 | 4 | US-10-408-765A-2420 | Sequence 2420, Ap |
| 852 | 31 | 60.8 | 193 | 5 | US-10-959-440-4 | Sequence 4, Appli |
| 853 | 31 | 60.8 | 194 | 4 | US-10-264-237-2644 | Sequence 2644, Ap |
| 854 | 31 | 60.8 | 195 | 4 | US-10-276-774-2592 | Sequence 2592, Ap |
| 855 | 31 | 60.8 | 201 | 4 | US-10-767-701-39552 | Sequence 39552, A |
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| 857 | 31 | 60.8 | 203 | 4 | US-10-437-963-118919 | Sequence 118919, |
| 858 | 31 | 60.8 | 228 | 4 | US-10-156-214A-272 | Sequence 272, App |
| 859 | 31 | 60.8 | 229 | 4 | US-10-108-260A-4810 | Sequence 4810, Ap |
| 860 | 31 | 60.8 | 251 | 5 | US-10-774-355A-2281 | Sequence 2281, Ap |
| 861 | 31 | 60.8 | 256 | 3 | US-09-852-472-11 | Sequence 11, Appl |
| 862 | 31 | 60.8 | 262 | 4 | US-10-072-012-102 | Sequence 102, App |
| 863 | 31 | 60.8 | 263 | 4 | US-10-094-886-128 | Sequence 128, App |
| 864 | 31 | 60.8 | 263 | 5 | US-10-733-969A-74 | Sequence 74, Appl |
| 865 | 31 | 60.8 | 274 | 3 | US-09-866-050A-336 | Sequence 336, App |
| 866 | 31 | 60.8 | 276 | 5 | US-10-450-763-52118 | Sequence 52118, A |
| 867 | 31 | 60.8 | 282 | 4 | US-10-389-566-2145 | Sequence 2145, Ap |
| 868 | 31 | 60.8 | 289 | 4 | US-10-424-599-274130 | Sequence 274130, |
| 869 | 31 | 60.8 | 290 | 4 | US-10-424-599-259463 | Sequence 259463, |
| 870 | 31 | 60.8 | 295 | 3 | US-09-829-936A-9 | Sequence 9, Appli |
| 871 | 31 | 60.8 | 295 | 3 | US-09-829-936A-31 | Sequence 31, Appl |
| 872 | 31 | 60.8 | 295 | 5 | US-10-759-256-9 | Sequence 9, Appli |
| 873 | 31 | 60.8 | 295 | 5 | US-10-759-256-31 | Sequence 31, Appl |
| 874 | 31 | 60.8 | 302 | 4 | US-10-002-631C-110 | Sequence 110, App |
| 875 | 31 | 60.8 | 306 | 5 | US-10-015-989A-53 | Sequence 53, Appl |
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| 877 | 31 | 60.8 | 308 | 4 | US-10-437-963-153406 | Sequence 153406, |
| 878 | 31 | 60.8 | 308 | 5 | US-10-774-355A-2254 | Sequence 2254, Ap |
| 879 | 31 | 60.8 | 319 | 5 | US-10-015-989A-12 | Sequence 12, Appl |
| 880 | 31 | 60.8 | 323 | 4 | US-10-425-115-294319 | Sequence 294319, |
| 881 | 31 | 60.8 | 324 | 4 | US-10-282-122A-52308 | Sequence 52308, A |
| 882 | 31 | 60.8 | 338 | 6 | US-11-097-143-12237 | Sequence 12237, A |
| 883 | 31 | 60.8 | 339 | 4 | US-10-425-115-369138 | Sequence 369138, |
| 884 | 31 | 60.8 | 344 | 4 | US-10-425-115-195783 | Sequence 195783, |
| 885 | 31 | 60.8 | 349 | 3 | US-09-742-153-18 | Sequence 18, Appl |
| 886 | 31 | 60.8 | 349 | 5 | US-10-450-763-52119 | Sequence 52119, A |
| 887 | 31 | 60.8 | 356 | 4 | US-10-425-114-57202 | Sequence 57202, A |
| 888 | 31 | 60.8 | 361 | 4 | US-10-425-115-335028 | Sequence 335028, |
| 889 | 31 | 60.8 | 376 | 5 | US-10-450-763-59616 | Sequence 59616, A |
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| 891 | 31 | 60.8 | 390 | 5 | US-10-732-923-22816 | Sequence 22816, A |
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| 895 | 31 | 60.8 | 409 | 4 | US-10-425-114-56449 | Sequence 56449, A |
| 896 | 31 | 60.8 | 409 | 4 | US-10-425-115-195513 | Sequence 195513, |
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| 898 | 31 | 60.8 | 424 | 4 | US-10-424-599-210109 | Sequence 210109, |
| 899 | 31 | 60.8 | 424 | 4 | US-10-424-599-238733 | Sequence 238733, |
| 900 | 31 | 60.8 | 426 | 4 | US-10-408-765A-2901 | Sequence 2901, Ap |
| 901 | 31 | 60.8 | 428 | 4 | US-10-437-963-136348 | Sequence 136348, |
| 902 | 31 | 60.8 | 433 | 3 | US-09-925-302-691 | Sequence 691, App |
| 903 | 31 | 60.8 | 433 | 3 | US-09-925-302-691 | Sequence 691, App |
| 904 | 31 | 60.8 | 434 | 4 | US-10-425-114-43633 | Sequence 43633, A |
| 905 | 31 | 60.8 | 439 | 4 | US-10-443-923-6 | Sequence 6, Appli |
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| 910 | 31 | 60.8 | 443 | 4 | US-10-140-808-318 | Sequence 318, App |
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| 917 | 31 | 60.8 | 443 | 4 | US-10-137-865-318 | Sequence 318, App |
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| 923 | 31 | 60.8 | 443 | 4 | US-10-142-423-318 | Sequence 318, App |
| 924 | 31 | 60.8 | 443 | 4 | US-10-121-050-318 | Sequence 318, App |
| 925 | 31 | 60.8 | 443 | 4 | US-10-141-755-318 | Sequence 318, App |
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| 927 | 31 | 60.8 | 443 | 4 | US-10-123-108-318 | Sequence 318, App |
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| 930 | 31 | 60.8 | 443 | 4 | US-10-140-921-318 | Sequence 318, App |
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| 935 | 31 | 60.8 | 443 | 4 | US-10-124-819-318 | Sequence 318, App |
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| 945 | 31 | 60.8 | 443 | 4 | US-10-128-693A-318 | Sequence 318, App |
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| 948 | 31 | 60.8 | 443 | 4 | US-10-131-823A-318 | Sequence 318, App |
| 949 | 31 | 60.8 | 443 | 4 | US-10-131-824A-318 | Sequence 318, App |
| 950 | 31 | 60.8 | 443 | 4 | US-10-131-830A-318 | Sequence 318, App |
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| 952 | 31 | 60.8 | 443 | 4 | US-10-137-872A-318 | Sequence 318, App |
| 953 | 31 | 60.8 | 443 | 4 | US-10-147-500-318 | Sequence 318, App |
| 954 | 31 | 60.8 | 443 | 4 | US-10-147-502-318 | Sequence 318, App |
| 955 | 31 | 60.8 | 443 | 4 | US-10-147-515-318 | Sequence 318, App |
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| 958 | 31 | 60.8 | 443 | 4 | US-10-147-527-318 | Sequence 318, App |
| 959 | 31 | 60.8 | 443 | 4 | US-10-121-041-318 | Sequence 318, App |
| 960 | 31 | 60.8 | 443 | 4 | US-10-121-043-318 | Sequence 318, App |
| 961 | 31 | 60.8 | 443 | 4 | US-10-121-047-318 | Sequence 318, App |
| 962 | 31 | 60.8 | 443 | 4 | US-10-123-215-318 | Sequence 318, App |
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| 964 | 31 | 60.8 | 443 | 4 | US-10-123-908-318 | Sequence 318, App |
| 965 | 31 | 60.8 | 443 | 4 | US-10-123-909-318 | Sequence 318, App |
| 966 | 31 | 60.8 | 443 | 4 | US-10-123-910-318 | Sequence 318, App |
| 967 | 31 | 60.8 | 443 | 4 | US-10-124-813-318 | Sequence 318, App |
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| 969 | 31 | 60.8 | 443 | 4 | US-10-125-922-318 | Sequence 318, App |
| 970 | 31 | 60.8 | 443 | 4 | US-10-125-924-318 | Sequence 318, App |
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| 972 | 31 | 60.8 | 443 | 4 | US-10-142-417-318 | Sequence 318, App |
| 973 | 31 | 60.8 | 443 | 4 | US-10-147-519-318 | Sequence 318, App |
| 974 | 31 | 60.8 | 443 | 4 | US-10-157-782-318 | Sequence 318, App |
| 975 | 31 | 60.8 | 443 | 4 | US-10-152-395-318 | Sequence 318, App |
| 976 | 31 | 60.8 | 443 | 4 | US-10-125-926A-318 | Sequence 318, App |

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| 977 | 31 | 60.8 | 443 | 4 | US-10-125-930A-318 | Sequence 318, App |
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| 980 | 31 | 60.8 | 443 | 4 | US-10-127-838B-318 | Sequence 318, App |
| 981 | 31 | 60.8 | 443 | 4 | US-10-127-842A-318 | Sequence 318, App |
| 982 | 31 | 60.8 | 443 | 4 | US-10-127-843A-318 | Sequence 318, App |
| 983 | 31 | 60.8 | 443 | 4 | US-10-127-845A-318 | Sequence 318, App |
| 984 | 31 | 60.8 | 443 | 4 | US-10-127-846A-318 | Sequence 318, App |
| 985 | 31 | 60.8 | 443 | 4 | US-10-127-848A-318 | Sequence 318, App |
| 986 | 31 | 60.8 | 443 | 4 | US-10-127-849A-318 | Sequence 318, App |
| 987 | 31 | 60.8 | 443 | 4 | US-10-127-850A-318 | Sequence 318, App |
| 988 | 31 | 60.8 | 443 | 4 | US-10-127-851A-318 | Sequence 318, App |
| 989 | 31 | 60.8 | 443 | 4 | US-10-128-684A-318 | Sequence 318, App |
| 990 | 31 | 60.8 | 443 | 4 | US-10-128-686A-318 | Sequence 318, App |
| 991 | 31 | 60.8 | 443 | 4 | US-10-128-690A-318 | Sequence 318, App |
| 992 | 31 | 60.8 | 443 | 4 | US-10-128-691A-318 | Sequence 318, App |
| 993 | 31 | 60.8 | 443 | 4 | US-10-131-819A-318 | Sequence 318, App |
| 994 | 31 | 60.8 | 443 | 4 | US-10-131-829A-318 | Sequence 318, App |
| 995 | 31 | 60.8 | 443 | 4 | US-10-131-836A-318 | Sequence 318, App |
| 996 | 31 | 60.8 | 443 | 4 | US-10-146-729-318 | Sequence 318, App |
| 997 | 31 | 60.8 | 443 | 4 | US-10-146-791-318 | Sequence 318, App |
| 998 | 31 | 60.8 | 443 | 4 | US-10-147-484-318 | Sequence 318, App |
| 999 | 31 | 60.8 | 443 | 4 | US-10-147-508-318 | Sequence 318, App |
| 1000 | 31 | 60.8 | 443 | 4 | US-10-147-512-318 | Sequence 318, App |

ALIGNMENTS

RESULT 1
US-10-751-845-85
; Sequence 85, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 85
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-85

Query Match 100.0%; Score 51; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYSLYGTTL 9
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Db 1 CYSLYGTTL 9

RESULT 2
US-10-476-570-33
; Sequence 33, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 33
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 81-95
US-10-476-570-33

Query Match 100.0%; Score 51; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.016;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYSLYGTTL 9
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Db 7 CYSLYGTTL 15

RESULT 3
US-10-476-570-34
; Sequence 34, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 84-98
US-10-476-570-34

Query Match 100.0%; Score 51; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.016;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYSLYGTTL 9
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Db 4 CYSLYGTTL 12

RESULT 4
US-10-476-570-12
; Sequence 12, Application US/10476570
; Publication No. US20040170644A1

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; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 76-95
US-10-476-570-12

  Query Match             100.0%;  Score 51;  DB 4;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.022;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db         12 CYSLYGTTL 20


RESULT 5
US-10-751-845-66
; Sequence 66, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 66
;   LENGTH: 23
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-66

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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
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Db          9 CYSLYGTTL 17


RESULT 6
US-10-476-570-55
; Sequence 55, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 55
;   LENGTH: 29
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 80-108
US-10-476-570-55

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Qy          1 CYSLYGTTL 9
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Db          8 CYSLYGTTL 16


RESULT 7
US-10-858-384-8
; Sequence 8, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 8
;   LENGTH: 29
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
;   OTHER INFORMATION: for E6 of HPV
US-10-858-384-8

  Query Match             100.0%;  Score 51;  DB 5;  Length 29;
  Best Local Similarity   100.0%;  Pred. No. 0.032;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db          8 CYSLYGTTL 16
```

```
RESULT 8
US-10-751-845-126
; Sequence 126, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 126
;   LENGTH: 117
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-126

  Query Match             100.0%;  Score 51;  DB 5;  Length 117;
  Best Local Similarity   100.0%;  Pred. No. 0.13;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db         53 CYSLYGTTL 61


RESULT 9
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-10-858-384-2

  Query Match             100.0%;  Score 51;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.18;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db         87 CYSLYGTTL 95


RESULT 10
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
;  APPLICANT: Cuthill, Scott;
;  APPLICANT:  Jackson, Amanda;
;  APPLICANT:  Lewin, David A.;
;  APPLICANT:  Ooi, Chean Eng
;  TITLE OF INVENTION: Complexes and Methods of Using Same
;  FILE REFERENCE: 21402-559
;  CURRENT APPLICATION NUMBER: US/10/367,057
;  CURRENT FILING DATE:  2003-02-14
;  PRIOR APPLICATION NUMBER: 60/256,911
;  PRIOR FILING DATE: 2002-02-14
;  NUMBER OF SEQ ID NOS: 198
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 16
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-367-057-16

  Query Match             100.0%;  Score 51;  DB 5;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.18;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db         87 CYSLYGTTL 95


RESULT 11
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

  Query Match             100.0%;  Score 51;  DB 6;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.18;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db         87 CYSLYGTTL 95


RESULT 12
US-10-472-724-2
; Sequence 2, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
;  APPLICANT: Cid-Arregui, Angel
;  APPLICANT:  Zur Hausen, Harald
```

; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 171
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

Query Match 100.0%; Score 51; DB 4; Length 171;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYSLYGTTL 9
||||||||| 
Db 92 CYSLYGTTL 100

RESULT 13
US-10-751-845-157
; Sequence 157, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 157
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157

Query Match 100.0%; Score 51; DB 5; Length 236;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYSLYGTTL 9
||||||||| 
Db 53 CYSLYGTTL 61

RESULT 14
US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 158
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158

Query Match 100.0%; Score 51; DB 5; Length 237;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYSLYGTTL 9
||||||||| 
Db 54 CYSLYGTTL 62

RESULT 15
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOUL, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/11/072,288
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US/09/462,993
; PRIOR FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Derivated from
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
; OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

Query Match 100.0%; Score 51; DB 6; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.28;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYSLYGTTL 9
||||||||| 
Db 115 CYSLYGTTL 123

RESULT 16
US-10-751-845-160
; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:

```
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 160
;   LENGTH: 261
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160

  Query Match             100.0%;  Score 51;  DB 5;  Length 261;
  Best Local Similarity   100.0%;  Pred. No. 0.3;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db         78 CYSLYGTTL 86


RESULT 17
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match             100.0%;  Score 51;  DB 3;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.31;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db         87 CYSLYGTTL 95


RESULT 18
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-4

  Query Match             100.0%;  Score 51;  DB 4;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 0.31;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db        193 CYSLYGTTL 201


RESULT 19
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-4

  Query Match             100.0%;  Score 51;  DB 5;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 0.31;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||||||||
Db        193 CYSLYGTTL 201


RESULT 20
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
```

; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-10

Query Match 100.0%; Score 51; DB 4; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYSLYGTTL 9
||||||||| 
Db 212 CYSLYGTTL 220

RESULT 21
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-10

Query Match 100.0%; Score 51; DB 5; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYSLYGTTL 9
||||||||| 
Db 212 CYSLYGTTL 220

RESULT 22
US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-6

Query Match 100.0%; Score 51; DB 4; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.43;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYSLYGTTL 9
||||||||| 
Db 193 CYSLYGTTL 201

RESULT 23
US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
; OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-6

Query Match 100.0%; Score 51; DB 5; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.43;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYSLYGTTL 9
||||||||| 
Db 193 CYSLYGTTL 201

RESULT 24
US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine

; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-14

Query Match 100.0%; Score 51; DB 4; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYSLYGTTL 9
||||||||| 
Db 212 CYSLYGTTL 220

RESULT 25
US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-14

Query Match 100.0%; Score 51; DB 5; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYSLYGTTL 9
||||||||| 
Db 212 CYSLYGTTL 220

RESULT 26
US-10-751-845-79
; Sequence 79, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 79
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-79

Query Match 96.1%; Score 49; DB 5; Length 10;
Best Local Similarity 88.9%; Pred. No. 0.025;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYSLYGTTL 9
|||:||||| 
Db 2 CYSIYGTTL 10

RESULT 27
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
; APPLICANT: N.V. Antwerps Innovatiecentrum
; TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
; TITLE OF INVENTION: Polynucleotides by Electroporation
; FILE REFERENCE: 021505wo/JH/ml
; CURRENT APPLICATION NUMBER: US/10/177,390
; CURRENT FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-177-390-6

Query Match 94.1%; Score 48; DB 4; Length 151;
Best Local Similarity 88.9%; Pred. No. 0.62;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYSLYGTTL 9
|||:||||| 
Db 80 CYSVYGTTL 88

RESULT 28
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198

; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-20

Query Match 94.1%; Score 48; DB 5; Length 151;
Best Local Similarity 88.9%; Pred. No. 0.62;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYSLYGTTL 9
||| :|||||
Db 80 CYSVYGTTL 88

RESULT 29
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-27

Query Match 94.1%; Score 48; DB 5; Length 151;
Best Local Similarity 88.9%; Pred. No. 0.62;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYSLYGTTL 9
||| :|||||
Db 80 CYSVYGTTL 88

RESULT 30
US-10-751-845-91
; Sequence 91, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 91
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-91

Query Match 92.2%; Score 47; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.059;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYSLYGTT 8
||||||||
Db 3 CYSLYGTT 10

RESULT 31
US-10-751-845-88
; Sequence 88, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 88
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-88

Query Match 82.4%; Score 42; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYSLYGT 7
|||||||
Db 3 CYSLYGT 9

RESULT 32
US-11-021-949-18
; Sequence 18, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 149
; TYPE: PRT

```
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-18

  Query Match             76.5%;  Score 39;  DB 6;  Length 149;
  Best Local Similarity   87.5%;  Pred. No. 28;
  Matches    7;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 YSLYGTTL 9
              ||:|||||
Db         81 YSVYGTTL 88


RESULT 33
US-10-425-115-334474
; Sequence 334474, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 334474
;   LENGTH: 88
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_68153C.1.pep
US-10-425-115-334474

  Query Match             74.5%;  Score 38;  DB 4;  Length 88;
  Best Local Similarity   62.5%;  Pred. No. 25;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              |:::||||
Db         55 CFTIYGTT 62


RESULT 34
US-10-282-122A-77615
; Sequence 77615, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
;  APPLICANT: Wang, Liangsu
;  APPLICANT:  Zamudio, Carlos
;  APPLICANT:  Malone, Cheryl
;  APPLICANT:  Haselbeck, Robert
;  APPLICANT:  Ohlsen, Kari
;  APPLICANT:  Zyskind, Judith
;  APPLICANT:  Wall, Daniel
;  APPLICANT:  Trawick, John
;  APPLICANT:  Carr, Grant
;  APPLICANT:  Yamamoto, Robert
;  APPLICANT:  Forsyth, R.
;  APPLICANT:  Xu, H.
;  TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
;  FILE REFERENCE: ELITRA.034A
;  CURRENT APPLICATION NUMBER: US/10/282,122A
;  CURRENT FILING DATE:  2003-02-20
;  PRIOR APPLICATION NUMBER: 60/191,078
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: 60/206,848
;  PRIOR FILING DATE: 2000-05-23
;  PRIOR APPLICATION NUMBER: 60/207,727
;  PRIOR FILING DATE: 2000-05-26
;  PRIOR APPLICATION NUMBER: 60/230,335
;  PRIOR FILING DATE: 2000-09-06
;  PRIOR APPLICATION NUMBER: 60/230,347
;  PRIOR FILING DATE: 2000-09-09
;  PRIOR APPLICATION NUMBER: 60/242,578
;  PRIOR FILING DATE: 2000-10-23
;  PRIOR APPLICATION NUMBER: 60/253,625
;  PRIOR FILING DATE: 2000-11-27
;  PRIOR APPLICATION NUMBER: 60/257,931
;  PRIOR FILING DATE: 2000-12-22
;  PRIOR APPLICATION NUMBER: 60/267,636
;  PRIOR FILING DATE: 2001-02-09
;  PRIOR APPLICATION NUMBER: 60/269,308
;  PRIOR FILING DATE: 2001-02-16
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 78614
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 77615
;   LENGTH: 1013
;   TYPE: PRT
;   ORGANISM: Vibrio cholerae
US-10-282-122A-77615

  Query Match             74.5%;  Score 38;  DB 4;  Length 1013;
  Best Local Similarity   75.0%;  Pred. No. 3.1e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              ||:||| |
Db         49 CYALYGET 56


RESULT 35
US-09-832-723-103
; Sequence 103, Application US/09832723
; Patent No. US20020098524A1
; GENERAL INFORMATION:
;  APPLICANT: Estell, David A.
;  APPLICANT:  Chen, Yiyou
;  APPLICANT:  Murray, Christopher J.
;  APPLICANT:  Tijerina, Pilar
;  TITLE OF INVENTION: METHODS FOR SELECTIVE TARGETING
;  FILE REFERENCE: GC617-2
;  CURRENT APPLICATION NUMBER: US/09/832,723
;  CURRENT FILING DATE:  2001-04-11
;  PRIOR APPLICATION NUMBER: US 60/197,259
;  PRIOR FILING DATE: 2000-04-14
;  NUMBER OF SEQ ID NOS: 117
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 103
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: peptides screened from a phage display random
;   OTHER INFORMATION: peptide library
US-09-832-723-103

  Query Match             72.5%;  Score 37;  DB 3;  Length 9;
  Best Local Similarity   75.0%;  Pred. No. 1.7e+06;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              ||:||| |
Db          1 CYNLYGWT 8


RESULT 36
US-10-303-331-103
; Sequence 103, Application US/10303331
; Publication No. US20030152976A1
; GENERAL INFORMATION:
;  APPLICANT: Janssen, Giselle G.
;  APPLICANT:  Murray, Christopher J.
;  APPLICANT:  Winetzky, Deborah S.
```

```
;  TITLE OF INVENTION: METHODS FOR SELECTIVE TARGETING
;  FILE REFERENCE: GC617-3
;  CURRENT APPLICATION NUMBER: US/10/303,331
;  CURRENT FILING DATE:  2002-11-25
;  PRIOR APPLICATION NUMBER: US 09/832,723
;  PRIOR FILING DATE: 2001-04-11
;  PRIOR APPLICATION NUMBER: US 60/197,259
;  PRIOR FILING DATE: 2000-04-14
;  NUMBER OF SEQ ID NOS: 125
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 103
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: peptides screened from a phage display random
;   OTHER INFORMATION: peptide library
US-10-303-331-103

  Query Match             72.5%;  Score 37;  DB 4;  Length 9;
  Best Local Similarity   75.0%;  Pred. No. 1.7e+06;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              ||:||| |
Db          1 CYNLYGWT 8


RESULT 37
US-10-968-732-103
; Sequence 103, Application US/10968732
; Publication No. US20050112692A1
; GENERAL INFORMATION:
;  APPLICANT: Genencor International, Inc.
;  TITLE OF INVENTION: METHODS FOR SELECTIVE TARGETING
;  FILE REFERENCE: GC617-2
;  CURRENT APPLICATION NUMBER: US/10/968,732
;  CURRENT FILING DATE:  2004-10-19
;  PRIOR APPLICATION NUMBER: US 60/197,259
;  PRIOR FILING DATE: 2000-04-14
;  NUMBER OF SEQ ID NOS: 117
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 103
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: peptides screened from a phage display random
;   OTHER INFORMATION: peptide library
US-10-968-732-103

  Query Match             72.5%;  Score 37;  DB 5;  Length 9;
  Best Local Similarity   75.0%;  Pred. No. 1.7e+06;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              ||:||| |
Db          1 CYNLYGWT 8


RESULT 38
US-10-971-596-30
; Sequence 30, Application US/10971596
; Publication No. US20050153399A1
; GENERAL INFORMATION:
;  APPLICANT: De Nobel, Hans
;  APPLICANT:  Estell, David A.
;  APPLICANT:  Lui, Wei
;  APPLICANT:  Power, Scott D.
;  APPLICANT:  Schmidt, Brian
;  APPLICANT:  Wang, Huaming
;  TITLE OF INVENTION: Expression in Filamentous Fungi of
;  TITLE OF INVENTION:  Protease Inhibitors and Variants Thereof
;  FILE REFERENCE: GC815
;  CURRENT APPLICATION NUMBER: US/10/971,596
;  CURRENT FILING DATE:  2004-10-22
;  NUMBER OF SEQ ID NOS: 76
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 30
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Unknown
;   FEATURE:
;   OTHER INFORMATION: VEGF compstatin variant
US-10-971-596-30

  Query Match             72.5%;  Score 37;  DB 5;  Length 9;
  Best Local Similarity   75.0%;  Pred. No. 1.7e+06;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              ||:||| |
Db          1 CYNLYGWT 8


RESULT 39
US-10-984-514-9
; Sequence 9, Application US/10984514
; Publication No. US20050202535A1
; GENERAL INFORMATION:
;  APPLICANT: Estell, David A.
;  APPLICANT:  Power, Scott D.
;  APPLICANT:  Collier, Katherine D.
;  APPLICANT:  De Nobel, Hans
;  APPLICANT:  Ganshaw, Grant C.
;  APPLICANT:  Kolkman, Marc
;  APPLICANT:  Miller, Jeff
;  APPLICANT:  Schmidt, Brian
;  APPLICANT:  van Kimmenade, Anita
;  APPLICANT:  Vogtentanz, Gudrun
;  TITLE OF INVENTION: Bacterial Expression of Protease
;  TITLE OF INVENTION:  Inhibitors and Variants Thereof
;  FILE REFERENCE: GC855
;  CURRENT APPLICATION NUMBER: US/10/984,514
;  CURRENT FILING DATE:  2004-11-08
;  PRIOR APPLICATION NUMBER: US 60/518,154
;  PRIOR FILING DATE: 2003-11-06
;  PRIOR APPLICATION NUMBER: US 60/520,403
;  PRIOR FILING DATE: 2003-11-13
;  PRIOR APPLICATION NUMBER: US 60/531,189
;  PRIOR FILING DATE: 2003-12-19
;  PRIOR APPLICATION NUMBER: US 60/531,207
;  PRIOR FILING DATE: 2003-12-19
;  PRIOR APPLICATION NUMBER: US 60/530,954
;  PRIOR FILING DATE: 2003-12-19
;  NUMBER OF SEQ ID NOS: 184
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: synthetic
US-10-984-514-9

  Query Match             72.5%;  Score 37;  DB 5;  Length 10;
  Best Local Similarity   75.0%;  Pred. No. 4.2;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              ||:||| |
Db          2 CYNLYGWT 9


RESULT 40
US-10-984-270A-43
```

```
; Sequence 43, Application US/10984270A
; Publication No. US20050203026A1
; GENERAL INFORMATION:
;  APPLICANT: Day, Anthony
;  APPLICANT:  Estell, David
;  APPLICANT:  Murray, Christopher
;  APPLICANT:  Power, Scott
;  TITLE OF INVENTION: Peptides and Supported Peptides for
;  TITLE OF INVENTION:  Treating Skin Diseases
;  FILE REFERENCE: GC817-2
;  CURRENT APPLICATION NUMBER: US/10/984,270A
;  CURRENT FILING DATE:  2004-11-08
;  PRIOR APPLICATION NUMBER: US 60/518,154
;  PRIOR FILING DATE: 2003-11-06
;  PRIOR APPLICATION NUMBER: US 60/520,403
;  PRIOR FILING DATE: 2003-11-13
;  PRIOR APPLICATION NUMBER: US 60/530,954
;  PRIOR FILING DATE: 2003-12-19
;  PRIOR APPLICATION NUMBER: US 60/531,207
;  PRIOR FILING DATE: 2003-12-19
;  PRIOR APPLICATION NUMBER: US 60/531,189
;  PRIOR FILING DATE: 2003-12-19
;  NUMBER OF SEQ ID NOS: 49
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 43
;   LENGTH: 13
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: synthetic Bbs1 cloning site out of frame stuffer
;   OTHER INFORMATION: sequence
US-10-984-270A-43

  Query Match             72.5%;  Score 37;  DB 5;  Length 13;
  Best Local Similarity   75.0%;  Pred. No. 5.5;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              ||:||| |
Db          2 CYNLYGWT 9


RESULT 41
US-10-476-570-32
; Sequence 32, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 32
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 78-92
US-10-476-570-32

  Query Match             72.5%;  Score 37;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 6.4;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYG 6
              ||||||
Db         10 CYSLYG 15


RESULT 42
US-10-044-359-4
; Sequence 4, Application US/10044359
; Publication No. US20020160454A1
; GENERAL INFORMATION:
;  APPLICANT: Herrman, Rafael
;  APPLICANT:  Wong, James F.
;  APPLICANT:  Lee, Jian-Ming
;  TITLE OF INVENTION: SCORPION TOXINS
;  FILE REFERENCE: BB1367 US NA
;  CURRENT APPLICATION NUMBER: US/10/044,359
;  CURRENT FILING DATE:  2002-01-11
;  PRIOR APPLICATION NUMBER: 09/599,416
;  PRIOR FILING DATE: 2000-06-22
;  PRIOR APPLICATION NUMBER: 60/140,227
;  PRIOR FILING DATE: 1999-06-22
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: Microsoft Office 97
; SEQ ID NO 4
;   LENGTH: 61
;   TYPE: PRT
;   ORGANISM: Hottentotta judaica
US-10-044-359-4

  Query Match             72.5%;  Score 37;  DB 4;  Length 61;
  Best Local Similarity   75.0%;  Pred. No. 27;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              ||  ||||
Db         41 CYDKYGTT 48


RESULT 43
US-10-425-115-349387
; Sequence 349387, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 349387
;   LENGTH: 71
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_81807C.1.pep
US-10-425-115-349387

  Query Match             72.5%;  Score 37;  DB 4;  Length 71;
  Best Local Similarity   66.7%;  Pred. No. 31;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |:| :||||
Db         32 CFSSFGTTL 40
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RESULT 44
US-10-971-596-15
; Sequence 15, Application US/10971596
; Publication No. US20050153399A1
; GENERAL INFORMATION:
;  APPLICANT: De Nobel, Hans
;  APPLICANT:  Estell, David A.
;  APPLICANT:  Lui, Wei
;  APPLICANT:  Power, Scott D.
;  APPLICANT:  Schmidt, Brian
;  APPLICANT:  Wang, Huaming
;  TITLE OF INVENTION: Expression in Filamentous Fungi of
;  TITLE OF INVENTION:  Protease Inhibitors and Variants Thereof
;  FILE REFERENCE: GC815
;  CURRENT APPLICATION NUMBER: US/10/971,596
;  CURRENT FILING DATE:  2004-10-22
;  NUMBER OF SEQ ID NOS: 76
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 15
;   LENGTH: 71
;   TYPE: PRT
;   ORGANISM: Unknown
;   FEATURE:
;   OTHER INFORMATION: VEGF BBI variant
US-10-971-596-15

  Query Match             72.5%;  Score 37;  DB 5;  Length 71;
  Best Local Similarity   75.0%;  Pred. No. 31;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              ||:||| |
Db         14 CYNLYGWT 21


RESULT 45
US-10-971-596-16
; Sequence 16, Application US/10971596
; Publication No. US20050153399A1
; GENERAL INFORMATION:
;  APPLICANT: De Nobel, Hans
;  APPLICANT:  Estell, David A.
;  APPLICANT:  Lui, Wei
;  APPLICANT:  Power, Scott D.
;  APPLICANT:  Schmidt, Brian
;  APPLICANT:  Wang, Huaming
;  TITLE OF INVENTION: Expression in Filamentous Fungi of
;  TITLE OF INVENTION:  Protease Inhibitors and Variants Thereof
;  FILE REFERENCE: GC815
;  CURRENT APPLICATION NUMBER: US/10/971,596
;  CURRENT FILING DATE:  2004-10-22
;  NUMBER OF SEQ ID NOS: 76
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 16
;   LENGTH: 71
;   TYPE: PRT
;   ORGANISM: Unknown
;   FEATURE:
;   OTHER INFORMATION: VEGF BBI variant
US-10-971-596-16

  Query Match             72.5%;  Score 37;  DB 5;  Length 71;
  Best Local Similarity   75.0%;  Pred. No. 31;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              ||:||| |
Db         41 CYNLYGWT 48


RESULT 46
US-10-971-596-17
; Sequence 17, Application US/10971596
; Publication No. US20050153399A1
; GENERAL INFORMATION:
;  APPLICANT: De Nobel, Hans
;  APPLICANT:  Estell, David A.
;  APPLICANT:  Lui, Wei
;  APPLICANT:  Power, Scott D.
;  APPLICANT:  Schmidt, Brian
;  APPLICANT:  Wang, Huaming
;  TITLE OF INVENTION: Expression in Filamentous Fungi of
;  TITLE OF INVENTION:  Protease Inhibitors and Variants Thereof
;  FILE REFERENCE: GC815
;  CURRENT APPLICATION NUMBER: US/10/971,596
;  CURRENT FILING DATE:  2004-10-22
;  NUMBER OF SEQ ID NOS: 76
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 17
;   LENGTH: 71
;   TYPE: PRT
;   ORGANISM: Unknown
;   FEATURE:
;   OTHER INFORMATION: VEGF BBI variant
US-10-971-596-17

  Query Match             72.5%;  Score 37;  DB 5;  Length 71;
  Best Local Similarity   75.0%;  Pred. No. 31;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              ||:||| |
Db         14 CYNLYGWT 21


RESULT 47
US-10-984-270A-22
; Sequence 22, Application US/10984270A
; Publication No. US20050203026A1
; GENERAL INFORMATION:
;  APPLICANT: Day, Anthony
;  APPLICANT:  Estell, David
;  APPLICANT:  Murray, Christopher
;  APPLICANT:  Power, Scott
;  TITLE OF INVENTION: Peptides and Supported Peptides for
;  TITLE OF INVENTION:  Treating Skin Diseases
;  FILE REFERENCE: GC817-2
;  CURRENT APPLICATION NUMBER: US/10/984,270A
;  CURRENT FILING DATE:  2004-11-08
;  PRIOR APPLICATION NUMBER: US 60/518,154
;  PRIOR FILING DATE: 2003-11-06
;  PRIOR APPLICATION NUMBER: US 60/520,403
;  PRIOR FILING DATE: 2003-11-13
;  PRIOR APPLICATION NUMBER: US 60/530,954
;  PRIOR FILING DATE: 2003-12-19
;  PRIOR APPLICATION NUMBER: US 60/531,207
;  PRIOR FILING DATE: 2003-12-19
;  PRIOR APPLICATION NUMBER: US 60/531,189
;  PRIOR FILING DATE: 2003-12-19
;  NUMBER OF SEQ ID NOS: 49
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22
;   LENGTH: 71
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: synthetic BBI-VEGF1 fusion protein
US-10-984-270A-22

  Query Match             72.5%;  Score 37;  DB 5;  Length 71;
  Best Local Similarity   75.0%;  Pred. No. 31;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              ||:||| |
Db         14 CYNLYGWT 21
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RESULT 48
US-10-984-270A-23
; Sequence 23, Application US/10984270A
; Publication No. US20050203026A1
; GENERAL INFORMATION:
;  APPLICANT: Day, Anthony
;  APPLICANT:  Estell, David
;  APPLICANT:  Murray, Christopher
;  APPLICANT:  Power, Scott
;  TITLE OF INVENTION: Peptides and Supported Peptides for
;  TITLE OF INVENTION:  Treating Skin Diseases
;  FILE REFERENCE: GC817-2
;  CURRENT APPLICATION NUMBER: US/10/984,270A
;  CURRENT FILING DATE:  2004-11-08
;  PRIOR APPLICATION NUMBER: US 60/518,154
;  PRIOR FILING DATE: 2003-11-06
;  PRIOR APPLICATION NUMBER: US 60/520,403
;  PRIOR FILING DATE: 2003-11-13
;  PRIOR APPLICATION NUMBER: US 60/530,954
;  PRIOR FILING DATE: 2003-12-19
;  PRIOR APPLICATION NUMBER: US 60/531,207
;  PRIOR FILING DATE: 2003-12-19
;  PRIOR APPLICATION NUMBER: US 60/531,189
;  PRIOR FILING DATE: 2003-12-19
;  NUMBER OF SEQ ID NOS: 49
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 23
;   LENGTH: 71
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: synthetic BBI-VEGF2 fusion protein
US-10-984-270A-23

  Query Match             72.5%;  Score 37;  DB 5;  Length 71;
  Best Local Similarity   75.0%;  Pred. No. 31;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              ||:||| |
Db         41 CYNLYGWT 48


RESULT 49
US-10-984-270A-24
; Sequence 24, Application US/10984270A
; Publication No. US20050203026A1
; GENERAL INFORMATION:
;  APPLICANT: Day, Anthony
;  APPLICANT:  Estell, David
;  APPLICANT:  Murray, Christopher
;  APPLICANT:  Power, Scott
;  TITLE OF INVENTION: Peptides and Supported Peptides for
;  TITLE OF INVENTION:  Treating Skin Diseases
;  FILE REFERENCE: GC817-2
;  CURRENT APPLICATION NUMBER: US/10/984,270A
;  CURRENT FILING DATE:  2004-11-08
;  PRIOR APPLICATION NUMBER: US 60/518,154
;  PRIOR FILING DATE: 2003-11-06
;  PRIOR APPLICATION NUMBER: US 60/520,403
;  PRIOR FILING DATE: 2003-11-13
;  PRIOR APPLICATION NUMBER: US 60/530,954
;  PRIOR FILING DATE: 2003-12-19
;  PRIOR APPLICATION NUMBER: US 60/531,207
;  PRIOR FILING DATE: 2003-12-19
;  PRIOR APPLICATION NUMBER: US 60/531,189
;  PRIOR FILING DATE: 2003-12-19
;  NUMBER OF SEQ ID NOS: 49
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 24
;   LENGTH: 71
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: synthetic BBI-VEGF12 fusion protein
US-10-984-270A-24

  Query Match             72.5%;  Score 37;  DB 5;  Length 71;
  Best Local Similarity   75.0%;  Pred. No. 31;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              ||:||| |
Db         14 CYNLYGWT 21


RESULT 50
US-10-984-514-4
; Sequence 4, Application US/10984514
; Publication No. US20050202535A1
; GENERAL INFORMATION:
;  APPLICANT: Estell, David A.
;  APPLICANT:  Power, Scott D.
;  APPLICANT:  Collier, Katherine D.
;  APPLICANT:  De Nobel, Hans
;  APPLICANT:  Ganshaw, Grant C.
;  APPLICANT:  Kolkman, Marc
;  APPLICANT:  Miller, Jeff
;  APPLICANT:  Schmidt, Brian
;  APPLICANT:  van Kimmenade, Anita
;  APPLICANT:  Vogtentanz, Gudrun
;  TITLE OF INVENTION: Bacterial Expression of Protease
;  TITLE OF INVENTION:  Inhibitors and Variants Thereof
;  FILE REFERENCE: GC855
;  CURRENT APPLICATION NUMBER: US/10/984,514
;  CURRENT FILING DATE:  2004-11-08
;  PRIOR APPLICATION NUMBER: US 60/518,154
;  PRIOR FILING DATE: 2003-11-06
;  PRIOR APPLICATION NUMBER: US 60/520,403
;  PRIOR FILING DATE: 2003-11-13
;  PRIOR APPLICATION NUMBER: US 60/531,189
;  PRIOR FILING DATE: 2003-12-19
;  PRIOR APPLICATION NUMBER: US 60/531,207
;  PRIOR FILING DATE: 2003-12-19
;  PRIOR APPLICATION NUMBER: US 60/530,954
;  PRIOR FILING DATE: 2003-12-19
;  NUMBER OF SEQ ID NOS: 184
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
;   LENGTH: 73
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: synthetic fusion peptide
US-10-984-514-4

  Query Match             72.5%;  Score 37;  DB 5;  Length 73;
  Best Local Similarity   75.0%;  Pred. No. 32;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              ||:||| |
Db         16 CYNLYGWT 23


Search completed: May  5, 2006, 08:17:49
Job time : 61.8 secs
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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:08:06 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-72
Perfect score: 51
Sequence: 1 CYSLYGTTL 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_New:*
1: /SIDS5/ptodata/1/pubpaa/US08_NEW_PUB.pep1:*
2: /SIDS5/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
3: /SIDS5/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
4: /SIDS5/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
5: /SIDS5/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
6: /SIDS5/ptodata/1/pubpaa/US09_NEW_PUB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
|---|---|---|---|---|---|---|
| 1 | 51 | 100.0 | 15 | 9 | US-10-530-061-1657 | Sequence 1657, Ap |
| 2 | 51 | 100.0 | 15 | 9 | US-10-530-061-1658 | Sequence 1658, Ap |
| 3 | 51 | 100.0 | 158 | 11 | US-11-206-138-3 | Sequence 3, Appli |
| 4 | 51 | 100.0 | 256 | 11 | US-11-192-923A-2 | Sequence 2, Appli |
| 5 | 48 | 94.1 | 151 | 9 | US-10-530-253-13 | Sequence 13, Appl |
| 6 | 48 | 94.1 | 248 | 9 | US-10-530-253-1 | Sequence 1, Appli |
| 7 | 48 | 94.1 | 248 | 9 | US-10-530-253-3 | Sequence 3, Appli |
| 8 | 48 | 94.1 | 248 | 9 | US-10-530-253-5 | Sequence 5, Appli |
| 9 | 48 | 94.1 | 248 | 9 | US-10-530-253-7 | Sequence 7, Appli |
| 10 | 48 | 94.1 | 248 | 9 | US-10-530-253-9 | Sequence 9, Appli |
| 11 | 48 | 94.1 | 248 | 9 | US-10-530-253-11 | Sequence 11, Appl |
| 12 | 47 | 92.2 | 9 | 9 | US-10-530-061-804 | Sequence 804, App |
| 13 | 39 | 76.5 | 10 | 9 | US-10-530-061-541 | Sequence 541, App |
| 14 | 39 | 76.5 | 15 | 9 | US-10-530-061-1672 | Sequence 1672, Ap |
| 15 | 39 | 76.5 | 149 | 9 | US-10-530-253-16 | Sequence 16, Appl |
| 16 | 36 | 70.6 | 148 | 9 | US-10-530-253-22 | Sequence 22, Appl |
| 17 | 36 | 70.6 | 149 | 9 | US-10-530-253-24 | Sequence 24, Appl |
| 18 | 36 | 70.6 | 398 | 11 | US-11-079-463-6004 | Sequence 6004, Ap |
| 19 | 35 | 68.6 | 961 | 11 | US-11-113-424-35 | Sequence 35, Appl |
| 20 | 34 | 66.7 | 15 | 9 | US-10-530-061-1679 | Sequence 1679, Ap |
| 21 | 34 | 66.7 | 15 | 9 | US-10-530-061-1694 | Sequence 1694, Ap |
| 22 | 34 | 66.7 | 149 | 9 | US-10-530-253-17 | Sequence 17, Appl |
| 23 | 34 | 66.7 | 155 | 9 | US-10-530-253-23 | Sequence 23, Appl |
| 24 | 34 | 66.7 | 348 | 11 | US-11-188-298-16753 | Sequence 16753, A |
| 25 | 34 | 66.7 | 690 | 11 | US-11-052-554A-99 | Sequence 99, Appl |
| 26 | 33 | 64.7 | 10 | 9 | US-10-530-061-540 | Sequence 540, App |
| 27 | 33 | 64.7 | 149 | 9 | US-10-530-253-18 | Sequence 18, Appl |
| 28 | 33 | 64.7 | 275 | 11 | US-11-096-568A-21684 | Sequence 21684, A |
| 29 | 33 | 64.7 | 304 | 11 | US-11-096-568A-6455 | Sequence 6455, Ap |
| 30 | 33 | 64.7 | 306 | 11 | US-11-096-568A-6454 | Sequence 6454, Ap |
| 31 | 33 | 64.7 | 322 | 11 | US-11-096-568A-6453 | Sequence 6453, Ap |
| 32 | 33 | 64.7 | 342 | 11 | US-11-188-298-4673 | Sequence 4673, Ap |
| 33 | 33 | 64.7 | 350 | 11 | US-11-096-568A-21683 | Sequence 21683, A |
| 34 | 33 | 64.7 | 355 | 11 | US-11-188-298-17135 | Sequence 17135, A |
| 35 | 33 | 64.7 | 374 | 11 | US-11-079-463-6404 | Sequence 6404, Ap |
| 36 | 33 | 64.7 | 388 | 11 | US-11-096-568A-21682 | Sequence 21682, A |
| 37 | 33 | 64.7 | 653 | 11 | US-11-098-686-10093 | Sequence 10093, A |
| 38 | 32 | 62.7 | 9 | 9 | US-10-530-061-107 | Sequence 107, App |
| 39 | 32 | 62.7 | 9 | 9 | US-10-530-061-612 | Sequence 612, App |
| 40 | 32 | 62.7 | 9 | 9 | US-10-530-061-844 | Sequence 844, App |
| 41 | 32 | 62.7 | 73 | 11 | US-11-079-463-6705 | Sequence 6705, Ap |
| 42 | 32 | 62.7 | 132 | 11 | US-11-079-463-7668 | Sequence 7668, Ap |
| 43 | 32 | 62.7 | 151 | 9 | US-10-530-253-21 | Sequence 21, Appl |
| 44 | 32 | 62.7 | 202 | 11 | US-11-087-099-2049 | Sequence 2049, Ap |
| 45 | 32 | 62.7 | 208 | 11 | US-11-087-099-6973 | Sequence 6973, Ap |
| 46 | 32 | 62.7 | 387 | 11 | US-11-137-465-57 | Sequence 57, Appl |
| 47 | 32 | 62.7 | 456 | 11 | US-11-079-463-8841 | Sequence 8841, Ap |
| 48 | 32 | 62.7 | 562 | 11 | US-11-096-568A-29109 | Sequence 29109, A |
| 49 | 32 | 62.7 | 567 | 11 | US-11-096-568A-29028 | Sequence 29028, A |
| 50 | 32 | 62.7 | 580 | 11 | US-11-096-568A-29108 | Sequence 29108, A |
| 51 | 32 | 62.7 | 586 | 11 | US-11-096-568A-29027 | Sequence 29027, A |
| 52 | 32 | 62.7 | 599 | 11 | US-11-096-568A-29107 | Sequence 29107, A |
| 53 | 32 | 62.7 | 684 | 11 | US-11-096-568A-29026 | Sequence 29026, A |
| 54 | 32 | 62.7 | 782 | 11 | US-11-087-099-3762 | Sequence 3762, Ap |
| 55 | 32 | 62.7 | 880 | 11 | US-11-045-004-243 | Sequence 243, App |
| 56 | 32 | 62.7 | 897 | 9 | US-10-821-234-1523 | Sequence 1523, Ap |
| 57 | 32 | 62.7 | 964 | 11 | US-11-137-465-58 | Sequence 58, Appl |
| 58 | 32 | 62.7 | 965 | 11 | US-11-113-424-2 | Sequence 2, Appli |
| 59 | 32 | 62.7 | 965 | 11 | US-11-147-047-51 | Sequence 51, Appl |
| 60 | 32 | 62.7 | 1018 | 11 | US-11-067-121-17 | Sequence 17, Appl |
| 61 | 32 | 62.7 | 1028 | 11 | US-11-067-121-7 | Sequence 7, Appli |
| 62 | 32 | 62.7 | 1036 | 9 | US-10-131-826A-142 | Sequence 142, App |
| 63 | 32 | 62.7 | 1036 | 9 | US-10-973-115B-142 | Sequence 142, App |
| 64 | 32 | 62.7 | 1036 | 9 | US-10-137-873A-142 | Sequence 142, App |
| 65 | 32 | 62.7 | 1036 | 9 | US-10-152-370-142 | Sequence 142, App |
| 66 | 32 | 62.7 | 1036 | 11 | US-11-290-153-142 | Sequence 142, App |
| 67 | 31.5 | 61.8 | 26 | 9 | US-10-939-890-287 | Sequence 287, App |
| 68 | 31 | 60.8 | 9 | 9 | US-10-530-061-611 | Sequence 611, App |
| 69 | 31 | 60.8 | 10 | 9 | US-10-530-061-124 | Sequence 124, App |
| 70 | 31 | 60.8 | 10 | 9 | US-10-530-061-127 | Sequence 127, App |
| 71 | 31 | 60.8 | 10 | 9 | US-10-530-061-128 | Sequence 128, App |
| 72 | 31 | 60.8 | 10 | 9 | US-10-530-061-850 | Sequence 850, App |
| 73 | 31 | 60.8 | 10 | 9 | US-10-530-061-852 | Sequence 852, App |
| 74 | 31 | 60.8 | 10 | 9 | US-10-530-061-853 | Sequence 853, App |
| 75 | 31 | 60.8 | 106 | 11 | US-11-096-568A-16182 | Sequence 16182, A |
| 76 | 31 | 60.8 | 118 | 11 | US-11-209-289-9 | Sequence 9, Appli |
| 77 | 31 | 60.8 | 150 | 11 | US-11-096-568A-16181 | Sequence 16181, A |
| 78 | 31 | 60.8 | 150 | 11 | US-11-096-568A-23851 | Sequence 23851, A |
| 79 | 31 | 60.8 | 184 | 11 | US-11-087-099-822 | Sequence 822, App |
| 80 | 31 | 60.8 | 184 | 11 | US-11-087-099-12262 | Sequence 12262, A |
| 81 | 31 | 60.8 | 190 | 11 | US-11-087-099-8380 | Sequence 8380, Ap |
| 82 | 31 | 60.8 | 193 | 11 | US-11-057-484A-5 | Sequence 5, Appli |
| 83 | 31 | 60.8 | 201 | 11 | US-11-096-568A-16180 | Sequence 16180, A |
| 84 | 31 | 60.8 | 202 | 11 | US-11-096-568A-23850 | Sequence 23850, A |
| 85 | 31 | 60.8 | 240 | 11 | US-11-096-568A-23849 | Sequence 23849, A |
| 86 | 31 | 60.8 | 282 | 11 | US-11-087-099-11561 | Sequence 11561, A |
| 87 | 31 | 60.8 | 282 | 11 | US-11-188-298-21727 | Sequence 21727, A |
| 88 | 31 | 60.8 | 291 | 9 | US-10-986-405-254 | Sequence 254, App |
| 89 | 31 | 60.8 | 292 | 11 | US-11-209-289-6 | Sequence 6, Appli |
| 90 | 31 | 60.8 | 300 | 11 | US-11-188-298-6991 | Sequence 6991, Ap |
| 91 | 31 | 60.8 | 307 | 11 | US-11-096-568A-18887 | Sequence 18887, A |
| 92 | 31 | 60.8 | 309 | 11 | US-11-096-568A-18886 | Sequence 18886, A |
| 93 | 31 | 60.8 | 336 | 11 | US-11-209-289-5 | Sequence 5, Appli |
| 94 | 31 | 60.8 | 347 | 11 | US-11-098-686-10954 | Sequence 10954, A |

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| 95 | 31 | 60.8 | 358 | 11 | US-11-079-463-9439 | Sequence 9439, Ap |
| 96 | 31 | 60.8 | 359 | 11 | US-11-209-289-4 | Sequence 4, Appli |
| 97 | 31 | 60.8 | 359 | 11 | US-11-209-289-8 | Sequence 8, Appli |
| 98 | 31 | 60.8 | 359 | 11 | US-11-209-289-23 | Sequence 23, Appl |
| 99 | 31 | 60.8 | 359 | 11 | US-11-209-289-24 | Sequence 24, Appl |
| 100 | 31 | 60.8 | 359 | 11 | US-11-209-289-25 | Sequence 25, Appl |
| 101 | 31 | 60.8 | 359 | 11 | US-11-209-289-26 | Sequence 26, Appl |
| 102 | 31 | 60.8 | 359 | 11 | US-11-209-289-27 | Sequence 27, Appl |
| 103 | 31 | 60.8 | 366 | 11 | US-11-096-568A-6123 | Sequence 6123, Ap |
| 104 | 31 | 60.8 | 376 | 11 | US-11-096-568A-6122 | Sequence 6122, Ap |
| 105 | 31 | 60.8 | 395 | 9 | US-10-467-657-2992 | Sequence 2992, Ap |
| 106 | 31 | 60.8 | 395 | 9 | US-10-467-657-7292 | Sequence 7292, Ap |
| 107 | 31 | 60.8 | 412 | 11 | US-11-096-568A-34438 | Sequence 34438, A |
| 108 | 31 | 60.8 | 424 | 11 | US-11-096-568A-6121 | Sequence 6121, Ap |
| 109 | 31 | 60.8 | 443 | 9 | US-10-131-826A-318 | Sequence 318, App |
| 110 | 31 | 60.8 | 443 | 9 | US-10-973-115B-318 | Sequence 318, App |
| 111 | 31 | 60.8 | 443 | 9 | US-10-137-873A-318 | Sequence 318, App |
| 112 | 31 | 60.8 | 443 | 9 | US-10-152-370-318 | Sequence 318, App |
| 113 | 31 | 60.8 | 443 | 11 | US-11-065-695-16 | Sequence 16, Appl |
| 114 | 31 | 60.8 | 443 | 11 | US-11-290-153-318 | Sequence 318, App |
| 115 | 31 | 60.8 | 484 | 11 | US-11-096-568A-34437 | Sequence 34437, A |
| 116 | 31 | 60.8 | 490 | 9 | US-10-131-826A-356 | Sequence 356, App |
| 117 | 31 | 60.8 | 490 | 9 | US-10-973-115B-356 | Sequence 356, App |
| 118 | 31 | 60.8 | 490 | 9 | US-10-986-405-331 | Sequence 331, App |
| 119 | 31 | 60.8 | 490 | 9 | US-10-137-873A-356 | Sequence 356, App |
| 120 | 31 | 60.8 | 490 | 9 | US-10-152-370-356 | Sequence 356, App |
| 121 | 31 | 60.8 | 490 | 11 | US-11-290-153-356 | Sequence 356, App |
| 122 | 31 | 60.8 | 529 | 9 | US-10-821-234-1168 | Sequence 1168, Ap |
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| 124 | 31 | 60.8 | 572 | 11 | US-11-188-298-13187 | Sequence 13187, A |
| 125 | 31 | 60.8 | 711 | 11 | US-11-087-099-6220 | Sequence 6220, Ap |
| 126 | 31 | 60.8 | 711 | 11 | US-11-087-099-8049 | Sequence 8049, Ap |
| 127 | 31 | 60.8 | 1128 | 11 | US-11-037-243-97 | Sequence 97, Appl |
| 128 | 30 | 58.8 | 9 | 9 | US-10-530-061-818 | Sequence 818, App |
| 129 | 30 | 58.8 | 57 | 9 | US-10-613-744-39 | Sequence 39, Appl |
| 130 | 30 | 58.8 | 99 | 9 | US-10-222-614-15 | Sequence 15, Appl |
| 131 | 30 | 58.8 | 169 | 11 | US-11-098-686-10283 | Sequence 10283, A |
| 132 | 30 | 58.8 | 186 | 11 | US-11-096-568A-21206 | Sequence 21206, A |
| 133 | 30 | 58.8 | 196 | 9 | US-10-222-614-30 | Sequence 30, Appl |
| 134 | 30 | 58.8 | 224 | 11 | US-11-096-568A-21205 | Sequence 21205, A |
| 135 | 30 | 58.8 | 238 | 11 | US-11-096-568A-19545 | Sequence 19545, A |
| 136 | 30 | 58.8 | 238 | 11 | US-11-096-568A-23858 | Sequence 23858, A |
| 137 | 30 | 58.8 | 244 | 11 | US-11-096-568A-10043 | Sequence 10043, A |
| 138 | 30 | 58.8 | 247 | 11 | US-11-096-568A-21204 | Sequence 21204, A |
| 139 | 30 | 58.8 | 263 | 11 | US-11-188-298-351 | Sequence 351, App |
| 140 | 30 | 58.8 | 263 | 11 | US-11-188-298-9667 | Sequence 9667, Ap |
| 141 | 30 | 58.8 | 282 | 11 | US-11-096-568A-10042 | Sequence 10042, A |
| 142 | 30 | 58.8 | 282 | 11 | US-11-096-568A-19544 | Sequence 19544, A |
| 143 | 30 | 58.8 | 282 | 11 | US-11-096-568A-23857 | Sequence 23857, A |
| 144 | 30 | 58.8 | 303 | 11 | US-11-188-298-2935 | Sequence 2935, Ap |
| 145 | 30 | 58.8 | 305 | 11 | US-11-096-568A-4351 | Sequence 4351, Ap |
| 146 | 30 | 58.8 | 305 | 11 | US-11-188-298-11326 | Sequence 11326, A |
| 147 | 30 | 58.8 | 306 | 11 | US-11-188-298-19718 | Sequence 19718, A |
| 148 | 30 | 58.8 | 318 | 11 | US-11-188-298-15709 | Sequence 15709, A |
| 149 | 30 | 58.8 | 350 | 11 | US-11-096-568A-4350 | Sequence 4350, Ap |
| 150 | 30 | 58.8 | 361 | 9 | US-10-467-657-2794 | Sequence 2794, Ap |
| 151 | 30 | 58.8 | 368 | 11 | US-11-096-568A-10041 | Sequence 10041, A |
| 152 | 30 | 58.8 | 396 | 11 | US-11-087-099-9889 | Sequence 9889, Ap |
| 153 | 30 | 58.8 | 413 | 9 | US-10-506-454-1165 | Sequence 1165, Ap |
| 154 | 30 | 58.8 | 422 | 11 | US-11-045-004-439 | Sequence 439, App |
| 155 | 30 | 58.8 | 499 | 11 | US-11-188-298-519 | Sequence 519, App |
| 156 | 30 | 58.8 | 513 | 9 | US-10-485-517-233 | Sequence 233, App |
| 157 | 30 | 58.8 | 537 | 11 | US-11-179-958A-2 | Sequence 2, Appli |
| 158 | 30 | 58.8 | 543 | 11 | US-11-087-099-6758 | Sequence 6758, Ap |
| 159 | 30 | 58.8 | 543 | 11 | US-11-188-298-6162 | Sequence 6162, Ap |
| 160 | 30 | 58.8 | 573 | 11 | US-11-096-568A-26950 | Sequence 26950, A |
| 161 | 30 | 58.8 | 574 | 11 | US-11-079-463-8012 | Sequence 8012, Ap |
| 162 | 30 | 58.8 | 580 | 11 | US-11-087-099-3193 | Sequence 3193, Ap |
| 163 | 30 | 58.8 | 580 | 11 | US-11-188-298-3022 | Sequence 3022, Ap |
| 164 | 30 | 58.8 | 582 | 11 | US-11-079-463-8472 | Sequence 8472, Ap |
| 165 | 30 | 58.8 | 603 | 9 | US-10-793-626-1684 | Sequence 1684, Ap |
| 166 | 30 | 58.8 | 657 | 11 | US-11-110-082-37 | Sequence 37, Appl |
| 167 | 30 | 58.8 | 690 | 9 | US-10-613-744-19 | Sequence 19, Appl |
| 168 | 30 | 58.8 | 690 | 9 | US-10-511-657-2 | Sequence 2, Appli |
| 169 | 30 | 58.8 | 694 | 10 | US-11-302-678-26 | Sequence 26, Appl |
| 170 | 30 | 58.8 | 774 | 11 | US-11-070-627-7 | Sequence 7, Appli |
| 171 | 30 | 58.8 | 798 | 11 | US-11-110-082-39 | Sequence 39, Appl |
| 172 | 30 | 58.8 | 808 | 11 | US-11-096-568A-26949 | Sequence 26949, A |
| 173 | 30 | 58.8 | 897 | 11 | US-11-096-568A-26948 | Sequence 26948, A |
| 174 | 30 | 58.8 | 1198 | 9 | US-10-453-372-880 | Sequence 880, App |
| 175 | 30 | 58.8 | 1398 | 9 | US-10-055-877-46 | Sequence 46, Appl |
| 176 | 30 | 58.8 | 1398 | 9 | US-10-453-372-872 | Sequence 872, App |
| 177 | 30 | 58.8 | 1403 | 9 | US-10-055-877-52 | Sequence 52, Appl |
| 178 | 30 | 58.8 | 1403 | 9 | US-10-453-372-878 | Sequence 878, App |
| 179 | 30 | 58.8 | 1404 | 9 | US-10-055-877-44 | Sequence 44, Appl |
| 180 | 30 | 58.8 | 1404 | 9 | US-10-453-372-870 | Sequence 870, App |
| 181 | 30 | 58.8 | 1418 | 9 | US-10-453-372-864 | Sequence 864, App |
| 182 | 30 | 58.8 | 1450 | 9 | US-10-055-877-48 | Sequence 48, Appl |
| 183 | 30 | 58.8 | 1450 | 9 | US-10-453-372-874 | Sequence 874, App |
| 184 | 30 | 58.8 | 1547 | 9 | US-10-453-372-886 | Sequence 886, App |
| 185 | 30 | 58.8 | 1574 | 9 | US-10-055-877-211 | Sequence 211, App |
| 186 | 30 | 58.8 | 1577 | 9 | US-10-055-877-54 | Sequence 54, Appl |
| 187 | 30 | 58.8 | 1577 | 9 | US-10-453-372-882 | Sequence 882, App |
| 188 | 30 | 58.8 | 1577 | 9 | US-10-453-372-884 | Sequence 884, App |
| 189 | 30 | 58.8 | 1594 | 9 | US-10-453-372-860 | Sequence 860, App |
| 190 | 30 | 58.8 | 1620 | 9 | US-10-453-372-868 | Sequence 868, App |
| 191 | 30 | 58.8 | 1653 | 9 | US-10-453-372-866 | Sequence 866, App |
| 192 | 29.5 | 57.8 | 535 | 11 | US-11-079-463-6786 | Sequence 6786, Ap |
| 193 | 29.5 | 57.8 | 1706 | 11 | US-11-096-568A-27854 | Sequence 27854, A |
| 194 | 29.5 | 57.8 | 1711 | 11 | US-11-096-568A-27598 | Sequence 27598, A |
| 195 | 29 | 56.9 | 10 | 9 | US-10-530-061-582 | Sequence 582, App |
| 196 | 29 | 56.9 | 33 | 11 | US-11-121-301-51 | Sequence 51, Appl |
| 197 | 29 | 56.9 | 67 | 9 | US-10-986-501-141 | Sequence 141, App |
| 198 | 29 | 56.9 | 102 | 9 | US-10-793-626-2592 | Sequence 2592, Ap |
| 199 | 29 | 56.9 | 106 | 11 | US-11-144-947-553 | Sequence 553, App |
| 200 | 29 | 56.9 | 136 | 11 | US-11-079-463-8986 | Sequence 8986, Ap |
| 201 | 29 | 56.9 | 138 | 11 | US-11-079-463-8300 | Sequence 8300, Ap |
| 202 | 29 | 56.9 | 177 | 11 | US-11-087-099-10857 | Sequence 10857, A |
| 203 | 29 | 56.9 | 183 | 11 | US-11-087-099-6241 | Sequence 6241, Ap |
| 204 | 29 | 56.9 | 186 | 11 | US-11-144-947-394 | Sequence 394, App |
| 205 | 29 | 56.9 | 198 | 11 | US-11-087-099-5446 | Sequence 5446, Ap |
| 206 | 29 | 56.9 | 206 | 11 | US-11-188-298-11066 | Sequence 11066, A |
| 207 | 29 | 56.9 | 208 | 11 | US-11-087-099-2130 | Sequence 2130, Ap |
| 208 | 29 | 56.9 | 218 | 11 | US-11-087-099-3267 | Sequence 3267, Ap |
| 209 | 29 | 56.9 | 219 | 11 | US-11-096-568A-11999 | Sequence 11999, A |
| 210 | 29 | 56.9 | 221 | 11 | US-11-018-868-117 | Sequence 117, App |
| 211 | 29 | 56.9 | 222 | 11 | US-11-087-099-2066 | Sequence 2066, Ap |
| 212 | 29 | 56.9 | 226 | 11 | US-11-079-463-9083 | Sequence 9083, Ap |
| 213 | 29 | 56.9 | 233 | 11 | US-11-087-099-3263 | Sequence 3263, Ap |
| 214 | 29 | 56.9 | 236 | 11 | US-11-096-568A-19053 | Sequence 19053, A |
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| 216 | 29 | 56.9 | 236 | 11 | US-11-096-568A-29438 | Sequence 29438, A |
| 217 | 29 | 56.9 | 242 | 9 | US-10-821-234-1073 | Sequence 1073, Ap |
| 218 | 29 | 56.9 | 242 | 11 | US-11-096-568A-11998 | Sequence 11998, A |
| 219 | 29 | 56.9 | 244 | 9 | US-10-477-507A-4 | Sequence 4, Appli |
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| 221 | 29 | 56.9 | 258 | 11 | US-11-096-568A-7655 | Sequence 7655, Ap |
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| 223 | 29 | 56.9 | 280 | 11 | US-11-096-568A-19052 | Sequence 19052, A |
| 224 | 29 | 56.9 | 280 | 11 | US-11-096-568A-19556 | Sequence 19556, A |
| 225 | 29 | 56.9 | 280 | 11 | US-11-096-568A-29437 | Sequence 29437, A |
| 226 | 29 | 56.9 | 280 | 11 | US-11-188-298-5285 | Sequence 5285, Ap |
| 227 | 29 | 56.9 | 281 | 11 | US-11-172-740-2047 | Sequence 2047, Ap |
| 228 | 29 | 56.9 | 287 | 11 | US-11-087-099-11672 | Sequence 11672, A |
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| 232 | 29 | 56.9 | 340 | 11 | US-11-096-568A-19555 | Sequence 19555, A |
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| 234 | 29 | 56.9 | 356 | 11 | US-11-096-568A-33719 | Sequence 33719, A |
| 235 | 29 | 56.9 | 359 | 11 | US-11-087-099-441 | Sequence 441, App |
| 236 | 29 | 56.9 | 359 | 11 | US-11-096-568A-33718 | Sequence 33718, A |
| 237 | 29 | 56.9 | 362 | 11 | US-11-096-568A-33717 | Sequence 33717, A |
| 238 | 29 | 56.9 | 363 | 11 | US-11-098-686-11349 | Sequence 11349, A |
| 239 | 29 | 56.9 | 363 | 11 | US-11-087-099-2538 | Sequence 2538, Ap |
| 240 | 29 | 56.9 | 363 | 11 | US-11-087-099-6335 | Sequence 6335, Ap |

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| 241 | 29 | 56.9 | 363 | 11 | US-11-087-099-10970 | Sequence 10970, A |
| 242 | 29 | 56.9 | 364 | 11 | US-11-188-298-10227 | Sequence 10227, A |
| 243 | 29 | 56.9 | 364 | 11 | US-11-188-298-12905 | Sequence 12905, A |
| 244 | 29 | 56.9 | 367 | 11 | US-11-087-099-7194 | Sequence 7194, Ap |
| 245 | 29 | 56.9 | 368 | 11 | US-11-087-099-1618 | Sequence 1618, Ap |
| 246 | 29 | 56.9 | 368 | 11 | US-11-096-568A-24395 | Sequence 24395, A |
| 247 | 29 | 56.9 | 378 | 11 | US-11-087-099-2341 | Sequence 2341, Ap |
| 248 | 29 | 56.9 | 379 | 11 | US-11-188-298-6334 | Sequence 6334, Ap |
| 249 | 29 | 56.9 | 380 | 11 | US-11-087-099-6922 | Sequence 6922, Ap |
| 250 | 29 | 56.9 | 394 | 11 | US-11-096-568A-9415 | Sequence 9415, Ap |
| 251 | 29 | 56.9 | 397 | 11 | US-11-087-099-6664 | Sequence 6664, Ap |
| 252 | 29 | 56.9 | 409 | 11 | US-11-096-568A-32080 | Sequence 32080, A |
| 253 | 29 | 56.9 | 417 | 11 | US-11-186-284-107 | Sequence 107, App |
| 254 | 29 | 56.9 | 417 | 11 | US-11-043-806-385 | Sequence 385, App |
| 255 | 29 | 56.9 | 419 | 11 | US-11-096-568A-26554 | Sequence 26554, A |
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| 257 | 29 | 56.9 | 427 | 9 | US-10-525-710-6 | Sequence 6, Appli |
| 258 | 29 | 56.9 | 429 | 11 | US-11-079-463-8227 | Sequence 8227, Ap |
| 259 | 29 | 56.9 | 433 | 11 | US-11-096-568A-32079 | Sequence 32079, A |
| 260 | 29 | 56.9 | 434 | 11 | US-11-087-099-11618 | Sequence 11618, A |
| 261 | 29 | 56.9 | 439 | 11 | US-11-072-512-3658 | Sequence 3658, Ap |
| 262 | 29 | 56.9 | 443 | 11 | US-11-096-568A-26553 | Sequence 26553, A |
| 263 | 29 | 56.9 | 449 | 11 | US-11-096-568A-9413 | Sequence 9413, Ap |
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| 266 | 29 | 56.9 | 495 | 11 | US-11-188-298-10304 | Sequence 10304, A |
| 267 | 29 | 56.9 | 574 | 11 | US-11-087-099-8948 | Sequence 8948, Ap |
| 268 | 29 | 56.9 | 594 | 9 | US-10-506-454-1686 | Sequence 1686, Ap |
| 269 | 29 | 56.9 | 882 | 11 | US-11-169-041-137 | Sequence 137, App |
| 270 | 29 | 56.9 | 1104 | 9 | US-10-330-773-794 | Sequence 794, App |
| 271 | 29 | 56.9 | 1250 | 9 | US-10-330-773-792 | Sequence 792, App |
| 272 | 29 | 56.9 | 1263 | 11 | US-11-076-163-3 | Sequence 3, Appli |
| 273 | 29 | 56.9 | 1425 | 9 | US-10-330-773-797 | Sequence 797, App |
| 274 | 29 | 56.9 | 1463 | 9 | US-10-971-982-3 | Sequence 3, Appli |
| 275 | 29 | 56.9 | 2556 | 11 | US-11-050-346-67 | Sequence 67, Appl |
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| 277 | 28.5 | 55.9 | 252 | 9 | US-10-510-959-4 | Sequence 4, Appli |
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| 281 | 28.5 | 55.9 | 2725 | 11 | US-11-100-640-16 | Sequence 16, Appl |
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| 283 | 28 | 54.9 | 9 | 9 | US-10-530-061-814 | Sequence 814, App |
| 284 | 28 | 54.9 | 15 | 11 | US-11-252-479-97 | Sequence 97, Appl |
| 285 | 28 | 54.9 | 16 | 9 | US-10-649-229-18 | Sequence 18, Appl |
| 286 | 28 | 54.9 | 18 | 11 | US-11-054-515-2810 | Sequence 2810, Ap |
| 287 | 28 | 54.9 | 18 | 11 | US-11-266-444-2810 | Sequence 2810, Ap |
| 288 | 28 | 54.9 | 30 | 9 | US-10-895-064-657 | Sequence 657, App |
| 289 | 28 | 54.9 | 30 | 11 | US-11-129-741-657 | Sequence 657, App |
| 290 | 28 | 54.9 | 51 | 11 | US-11-096-568A-14481 | Sequence 14481, A |
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| 292 | 28 | 54.9 | 106 | 11 | US-11-072-512-2107 | Sequence 2107, Ap |
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| 294 | 28 | 54.9 | 134 | 11 | US-11-084-591-2 | Sequence 2, Appli |
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| 297 | 28 | 54.9 | 181 | 11 | US-11-087-099-5008 | Sequence 5008, Ap |
| 298 | 28 | 54.9 | 187 | 9 | US-10-980-388-65 | Sequence 65, Appl |
| 299 | 28 | 54.9 | 190 | 11 | US-11-024-959-503 | Sequence 503, App |
| 300 | 28 | 54.9 | 197 | 11 | US-11-087-099-6108 | Sequence 6108, Ap |
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| 302 | 28 | 54.9 | 206 | 11 | US-11-232-805-69 | Sequence 69, Appl |
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| 304 | 28 | 54.9 | 232 | 11 | US-11-188-298-11685 | Sequence 11685, A |
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| 306 | 28 | 54.9 | 247 | 11 | US-11-096-568A-22372 | Sequence 22372, A |
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| 308 | 28 | 54.9 | 249 | 11 | US-11-266-444-946 | Sequence 946, App |
| 309 | 28 | 54.9 | 256 | 11 | US-11-096-568A-9580 | Sequence 9580, Ap |
| 310 | 28 | 54.9 | 260 | 11 | US-11-045-004-1478 | Sequence 1478, Ap |
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| 313 | 28 | 54.9 | 273 | 11 | US-11-096-568A-9579 | Sequence 9579, Ap |
| 314 | 28 | 54.9 | 286 | 11 | US-11-096-568A-12479 | Sequence 12479, A |
| 315 | 28 | 54.9 | 288 | 9 | US-10-467-657-3882 | Sequence 3882, Ap |
| 316 | 28 | 54.9 | 288 | 11 | US-11-079-463-8164 | Sequence 8164, Ap |
| 317 | 28 | 54.9 | 292 | 11 | US-11-096-568A-27765 | Sequence 27765, A |
| 318 | 28 | 54.9 | 301 | 9 | US-10-915-002-312 | Sequence 312, App |
| 319 | 28 | 54.9 | 301 | 11 | US-11-087-099-2321 | Sequence 2321, Ap |
| 320 | 28 | 54.9 | 307 | 11 | US-11-096-568A-22370 | Sequence 22370, A |
| 321 | 28 | 54.9 | 307 | 11 | US-11-096-568A-31113 | Sequence 31113, A |
| 322 | 28 | 54.9 | 315 | 11 | US-11-087-099-1708 | Sequence 1708, Ap |
| 323 | 28 | 54.9 | 328 | 11 | US-11-087-099-2862 | Sequence 2862, Ap |
| 324 | 28 | 54.9 | 328 | 11 | US-11-188-298-2720 | Sequence 2720, Ap |
| 325 | 28 | 54.9 | 333 | 11 | US-11-096-568A-20687 | Sequence 20687, A |
| 326 | 28 | 54.9 | 335 | 7 | US-09-978-360A-807 | Sequence 807, App |
| 327 | 28 | 54.9 | 335 | 11 | US-11-098-686-10614 | Sequence 10614, A |
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| 333 | 28 | 54.9 | 343 | 11 | US-11-174-816-72 | Sequence 72, Appl |
| 334 | 28 | 54.9 | 343 | 11 | US-11-174-819-91 | Sequence 91, Appl |
| 335 | 28 | 54.9 | 343 | 11 | US-11-174-751-9 | Sequence 9, Appli |
| 336 | 28 | 54.9 | 343 | 11 | US-11-174-751-42 | Sequence 42, Appl |
| 337 | 28 | 54.9 | 344 | 11 | US-11-019-711-44 | Sequence 44, Appl |
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| 339 | 28 | 54.9 | 350 | 11 | US-11-264-096-2215 | Sequence 2215, Ap |
| 340 | 28 | 54.9 | 350 | 11 | US-11-264-096-2216 | Sequence 2216, Ap |
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| 343 | 28 | 54.9 | 355 | 11 | US-11-098-686-10134 | Sequence 10134, A |
| 344 | 28 | 54.9 | 356 | 11 | US-11-096-568A-31112 | Sequence 31112, A |
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| 346 | 28 | 54.9 | 357 | 9 | US-10-506-454-307 | Sequence 307, App |
| 347 | 28 | 54.9 | 357 | 11 | US-11-019-711-46 | Sequence 46, Appl |
| 348 | 28 | 54.9 | 362 | 11 | US-11-096-568A-9843 | Sequence 9843, Ap |
| 349 | 28 | 54.9 | 363 | 11 | US-11-087-099-9725 | Sequence 9725, Ap |
| 350 | 28 | 54.9 | 366 | 11 | US-11-087-099-8117 | Sequence 8117, Ap |
| 351 | 28 | 54.9 | 369 | 11 | US-11-096-568A-19516 | Sequence 19516, A |
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| 357 | 28 | 54.9 | 401 | 11 | US-11-079-463-8006 | Sequence 8006, Ap |
| 358 | 28 | 54.9 | 411 | 11 | US-11-087-099-7744 | Sequence 7744, Ap |
| 359 | 28 | 54.9 | 423 | 11 | US-11-079-463-9021 | Sequence 9021, Ap |
| 360 | 28 | 54.9 | 430 | 11 | US-11-172-740-1216 | Sequence 1216, Ap |
| 361 | 28 | 54.9 | 436 | 9 | US-10-467-657-7728 | Sequence 7728, Ap |
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| 363 | 28 | 54.9 | 438 | 11 | US-11-087-099-5055 | Sequence 5055, Ap |
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| 365 | 28 | 54.9 | 452 | 11 | US-11-096-568A-27763 | Sequence 27763, A |
| 366 | 28 | 54.9 | 453 | 11 | US-11-096-568A-28510 | Sequence 28510, A |
| 367 | 28 | 54.9 | 456 | 7 | US-09-978-360A-523 | Sequence 523, App |
| 368 | 28 | 54.9 | 458 | 11 | US-11-232-805-46 | Sequence 46, Appl |
| 369 | 28 | 54.9 | 462 | 11 | US-11-232-805-44 | Sequence 44, Appl |
| 370 | 28 | 54.9 | 467 | 11 | US-11-096-568A-31111 | Sequence 31111, A |
| 371 | 28 | 54.9 | 483 | 11 | US-11-096-568A-34242 | Sequence 34242, A |
| 372 | 28 | 54.9 | 484 | 11 | US-11-188-298-6985 | Sequence 6985, Ap |
| 373 | 28 | 54.9 | 485 | 11 | US-11-188-298-6318 | Sequence 6318, Ap |
| 374 | 28 | 54.9 | 490 | 11 | US-11-188-298-18908 | Sequence 18908, A |
| 375 | 28 | 54.9 | 496 | 11 | US-11-188-298-17398 | Sequence 17398, A |
| 376 | 28 | 54.9 | 499 | 11 | US-11-024-959-276 | Sequence 276, App |
| 377 | 28 | 54.9 | 502 | 11 | US-11-096-568A-34241 | Sequence 34241, A |
| 378 | 28 | 54.9 | 506 | 11 | US-11-096-568A-28509 | Sequence 28509, A |
| 379 | 28 | 54.9 | 509 | 11 | US-11-096-568A-34240 | Sequence 34240, A |
| 380 | 28 | 54.9 | 509 | 11 | US-11-079-463-5697 | Sequence 5697, Ap |
| 381 | 28 | 54.9 | 520 | 9 | US-10-878-556A-38 | Sequence 38, Appl |
| 382 | 28 | 54.9 | 520 | 9 | US-10-501-035-335 | Sequence 335, App |
| 383 | 28 | 54.9 | 525 | 11 | US-11-188-298-870 | Sequence 870, App |
| 384 | 28 | 54.9 | 526 | 11 | US-11-079-463-8332 | Sequence 8332, Ap |
| 385 | 28 | 54.9 | 527 | 11 | US-11-120-543-18 | Sequence 18, Appl |
| 386 | 28 | 54.9 | 529 | 11 | US-11-045-004-384 | Sequence 384, App |

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| 387 | 28 | 54.9 | 530 | 11 | US-11-188-298-18599 | Sequence 18599, A |
| 388 | 28 | 54.9 | 537 | 11 | US-11-096-568A-22264 | Sequence 22264, A |
| 389 | 28 | 54.9 | 539 | 11 | US-11-096-568A-22263 | Sequence 22263, A |
| 390 | 28 | 54.9 | 541 | 11 | US-11-000-463-238 | Sequence 238, App |
| 391 | 28 | 54.9 | 541 | 11 | US-11-096-568A-22262 | Sequence 22262, A |
| 392 | 28 | 54.9 | 550 | 11 | US-11-188-298-7256 | Sequence 7256, Ap |
| 393 | 28 | 54.9 | 558 | 11 | US-11-096-568A-28508 | Sequence 28508, A |
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| 395 | 28 | 54.9 | 580 | 11 | US-11-188-298-7307 | Sequence 7307, Ap |
| 396 | 28 | 54.9 | 587 | 11 | US-11-052-554A-118 | Sequence 118, App |
| 397 | 28 | 54.9 | 616 | 11 | US-11-188-298-6543 | Sequence 6543, Ap |
| 398 | 28 | 54.9 | 616 | 11 | US-11-188-298-13709 | Sequence 13709, A |
| 399 | 28 | 54.9 | 617 | 11 | US-11-045-004-200 | Sequence 200, App |
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| 402 | 28 | 54.9 | 659 | 11 | US-11-188-298-2396 | Sequence 2396, Ap |
| 403 | 28 | 54.9 | 668 | 11 | US-11-052-554A-103 | Sequence 103, App |
| 404 | 28 | 54.9 | 679 | 11 | US-11-188-298-12823 | Sequence 12823, A |
| 405 | 28 | 54.9 | 690 | 9 | US-10-131-826A-306 | Sequence 306, App |
| 406 | 28 | 54.9 | 690 | 9 | US-10-973-115B-306 | Sequence 306, App |
| 407 | 28 | 54.9 | 690 | 9 | US-10-137-873A-306 | Sequence 306, App |
| 408 | 28 | 54.9 | 690 | 9 | US-10-152-370-306 | Sequence 306, App |
| 409 | 28 | 54.9 | 690 | 11 | US-11-290-153-306 | Sequence 306, App |
| 410 | 28 | 54.9 | 693 | 11 | US-11-098-686-11343 | Sequence 11343, A |
| 411 | 28 | 54.9 | 727 | 9 | US-10-793-626-2862 | Sequence 2862, Ap |
| 412 | 28 | 54.9 | 743 | 11 | US-11-149-513-2 | Sequence 2, Appli |
| 413 | 28 | 54.9 | 750 | 8 | US-10-511-937-2413 | Sequence 2413, Ap |
| 414 | 28 | 54.9 | 750 | 11 | US-11-070-627-1 | Sequence 1, Appli |
| 415 | 28 | 54.9 | 750 | 11 | US-11-070-627-2 | Sequence 2, Appli |
| 416 | 28 | 54.9 | 750 | 11 | US-11-070-627-3 | Sequence 3, Appli |
| 417 | 28 | 54.9 | 750 | 11 | US-11-070-627-4 | Sequence 4, Appli |
| 418 | 28 | 54.9 | 750 | 11 | US-11-070-627-6 | Sequence 6, Appli |
| 419 | 28 | 54.9 | 751 | 9 | US-10-821-234-1007 | Sequence 1007, Ap |
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| 421 | 28 | 54.9 | 786 | 11 | US-11-070-627-9 | Sequence 9, Appli |
| 422 | 28 | 54.9 | 833 | 9 | US-10-537-971-2 | Sequence 2, Appli |
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| 426 | 28 | 54.9 | 1057 | 11 | US-11-096-568A-30809 | Sequence 30809, A |
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| 436 | 28 | 54.9 | 1356 | 11 | US-11-129-741-2943 | Sequence 2943, Ap |
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| 438 | 28 | 54.9 | 1356 | 11 | US-11-129-741-2949 | Sequence 2949, Ap |
| 439 | 28 | 54.9 | 1356 | 11 | US-11-129-741-2951 | Sequence 2951, Ap |
| 440 | 28 | 54.9 | 1356 | 11 | US-11-129-741-4245 | Sequence 4245, Ap |
| 441 | 28 | 54.9 | 1362 | 9 | US-10-895-064-420 | Sequence 420, App |
| 442 | 28 | 54.9 | 1362 | 11 | US-11-129-741-420 | Sequence 420, App |
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| 448 | 28 | 54.9 | 2431 | 9 | US-10-958-267-6 | Sequence 6, Appli |
| 449 | 28 | 54.9 | 2431 | 9 | US-10-958-267-8 | Sequence 8, Appli |
| 450 | 28 | 54.9 | 2432 | 9 | US-10-958-267-9 | Sequence 9, Appli |
| 451 | 28 | 54.9 | 2432 | 9 | US-10-958-267-12 | Sequence 12, Appl |
| 452 | 27.5 | 53.9 | 478 | 9 | US-10-506-454-665 | Sequence 665, App |
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| 456 | 27 | 52.9 | 20 | 11 | US-11-004-399-1565 | Sequence 1565, Ap |
| 457 | 27 | 52.9 | 24 | 9 | US-10-973-977-37 | Sequence 37, Appl |
| 458 | 27 | 52.9 | 51 | 11 | US-11-229-769-216 | Sequence 216, App |
| 459 | 27 | 52.9 | 52 | 9 | US-10-475-075-801 | Sequence 801, App |
| 460 | 27 | 52.9 | 65 | 11 | US-11-087-099-9286 | Sequence 9286, Ap |
| 461 | 27 | 52.9 | 73 | 11 | US-11-144-947-579 | Sequence 579, App |
| 462 | 27 | 52.9 | 94 | 9 | US-10-821-234-1066 | Sequence 1066, Ap |
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| 468 | 27 | 52.9 | 147 | 11 | US-11-152-497-3 | Sequence 3, Appli |
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| 475 | 27 | 52.9 | 174 | 11 | US-11-144-947-424 | Sequence 424, App |
| 476 | 27 | 52.9 | 188 | 11 | US-11-087-099-922 | Sequence 922, App |
| 477 | 27 | 52.9 | 195 | 11 | US-11-087-099-3640 | Sequence 3640, Ap |
| 478 | 27 | 52.9 | 195 | 11 | US-11-229-769-338 | Sequence 338, App |
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| 480 | 27 | 52.9 | 199 | 11 | US-11-096-568A-33979 | Sequence 33979, A |
| 481 | 27 | 52.9 | 204 | 11 | US-11-096-568A-747 | Sequence 747, App |
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| 483 | 27 | 52.9 | 217 | 11 | US-11-019-711-136 | Sequence 136, App |
| 484 | 27 | 52.9 | 221 | 11 | US-11-087-099-6557 | Sequence 6557, Ap |
| 485 | 27 | 52.9 | 224 | 11 | US-11-079-463-8314 | Sequence 8314, Ap |
| 486 | 27 | 52.9 | 228 | 11 | US-11-188-298-22426 | Sequence 22426, A |
| 487 | 27 | 52.9 | 229 | 11 | US-11-188-298-2691 | Sequence 2691, Ap |
| 488 | 27 | 52.9 | 236 | 9 | US-10-995-561-903 | Sequence 903, App |
| 489 | 27 | 52.9 | 252 | 9 | US-10-510-959-11 | Sequence 11, Appl |
| 490 | 27 | 52.9 | 258 | 9 | US-10-506-454-191 | Sequence 191, App |
| 491 | 27 | 52.9 | 261 | 11 | US-11-079-463-7067 | Sequence 7067, Ap |
| 492 | 27 | 52.9 | 271 | 11 | US-11-058-817A-4 | Sequence 4, Appli |
| 493 | 27 | 52.9 | 272 | 11 | US-11-058-817A-6 | Sequence 6, Appli |
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| 495 | 27 | 52.9 | 289 | 11 | US-11-188-298-8036 | Sequence 8036, Ap |
| 496 | 27 | 52.9 | 292 | 11 | US-11-096-568A-4994 | Sequence 4994, Ap |
| 497 | 27 | 52.9 | 294 | 11 | US-11-096-568A-4993 | Sequence 4993, Ap |
| 498 | 27 | 52.9 | 297 | 11 | US-11-098-686-10742 | Sequence 10742, A |
| 499 | 27 | 52.9 | 297 | 11 | US-11-172-740-1825 | Sequence 1825, Ap |
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| 503 | 27 | 52.9 | 311 | 9 | US-10-915-002-177 | Sequence 177, App |
| 504 | 27 | 52.9 | 311 | 9 | US-10-915-002-182 | Sequence 182, App |
| 505 | 27 | 52.9 | 311 | 11 | US-11-096-568A-24744 | Sequence 24744, A |
| 506 | 27 | 52.9 | 312 | 11 | US-11-058-817A-8 | Sequence 8, Appli |
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| 510 | 27 | 52.9 | 315 | 11 | US-11-156-084-235 | Sequence 235, App |
| 511 | 27 | 52.9 | 326 | 11 | US-11-096-568A-4992 | Sequence 4992, Ap |
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| 519 | 27 | 52.9 | 339 | 11 | US-11-172-740-2504 | Sequence 2504, Ap |
| 520 | 27 | 52.9 | 339 | 11 | US-11-172-740-2505 | Sequence 2505, Ap |
| 521 | 27 | 52.9 | 340 | 11 | US-11-172-740-2048 | Sequence 2048, Ap |
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| 531 | 27 | 52.9 | 357 | 11 | US-11-087-099-11937 | Sequence 11937, A |
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| 548 | 27 | 52.9 | 378 | 11 | US-11-228-923-42 | Sequence 42, Appl |
| 549 | 27 | 52.9 | 378 | 11 | US-11-228-923-88 | Sequence 88, Appl |
| 550 | 27 | 52.9 | 378 | 11 | US-11-228-875-42 | Sequence 42, Appl |
| 551 | 27 | 52.9 | 378 | 11 | US-11-228-875-88 | Sequence 88, Appl |
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| 557 | 27 | 52.9 | 384 | 11 | US-11-108-185-8 | Sequence 8, Appli |
| 558 | 27 | 52.9 | 384 | 11 | US-11-108-185-10 | Sequence 10, Appl |
| 559 | 27 | 52.9 | 384 | 11 | US-11-108-185-12 | Sequence 12, Appl |
| 560 | 27 | 52.9 | 384 | 11 | US-11-087-099-9360 | Sequence 9360, Ap |
| 561 | 27 | 52.9 | 386 | 11 | US-11-129-741-4178 | Sequence 4178, Ap |
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| 568 | 27 | 52.9 | 397 | 9 | US-10-498-026-92 | Sequence 92, Appl |
| 569 | 27 | 52.9 | 398 | 9 | US-10-498-026-93 | Sequence 93, Appl |
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| 587 | 27 | 52.9 | 420 | 11 | US-11-228-875-90 | Sequence 90, Appl |
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| 594 | 27 | 52.9 | 434 | 11 | US-11-096-568A-9165 | Sequence 9165, Ap |
| 595 | 27 | 52.9 | 434 | 11 | US-11-096-568A-9168 | Sequence 9168, Ap |
| 596 | 27 | 52.9 | 437 | 11 | US-11-087-099-6210 | Sequence 6210, Ap |
| 597 | 27 | 52.9 | 438 | 11 | US-11-096-568A-17495 | Sequence 17495, A |
| 598 | 27 | 52.9 | 439 | 11 | US-11-096-568A-10315 | Sequence 10315, A |
| 599 | 27 | 52.9 | 444 | 11 | US-11-096-568A-24743 | Sequence 24743, A |
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| 605 | 27 | 52.9 | 479 | 11 | US-11-188-298-19826 | Sequence 19826, A |
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| 607 | 27 | 52.9 | 488 | 11 | US-11-188-298-6414 | Sequence 6414, Ap |
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| 611 | 27 | 52.9 | 499 | 9 | US-10-517-939-328 | Sequence 328, App |
| 612 | 27 | 52.9 | 501 | 11 | US-11-188-298-18819 | Sequence 18819, A |
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| 614 | 27 | 52.9 | 502 | 11 | US-11-188-298-18656 | Sequence 18656, A |
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| 616 | 27 | 52.9 | 504 | 11 | US-11-096-568A-10314 | Sequence 10314, A |
| 617 | 27 | 52.9 | 510 | 11 | US-11-045-004-1629 | Sequence 1629, Ap |
| 618 | 27 | 52.9 | 512 | 11 | US-11-087-099-262 | Sequence 262, App |
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| 620 | 27 | 52.9 | 518 | 11 | US-11-188-298-3783 | Sequence 3783, Ap |
| 621 | 27 | 52.9 | 518 | 11 | US-11-188-298-21903 | Sequence 21903, A |
| 622 | 27 | 52.9 | 519 | 11 | US-11-188-298-16899 | Sequence 16899, A |
| 623 | 27 | 52.9 | 519 | 11 | US-11-188-298-17104 | Sequence 17104, A |
| 624 | 27 | 52.9 | 522 | 9 | US-10-793-626-604 | Sequence 604, App |
| 625 | 27 | 52.9 | 524 | 11 | US-11-188-298-18349 | Sequence 18349, A |
| 626 | 27 | 52.9 | 526 | 11 | US-11-087-099-6670 | Sequence 6670, Ap |
| 627 | 27 | 52.9 | 528 | 11 | US-11-096-568A-10313 | Sequence 10313, A |
| 628 | 27 | 52.9 | 530 | 11 | US-11-054-281-94 | Sequence 94, Appl |
| 629 | 27 | 52.9 | 531 | 9 | US-10-506-454-1281 | Sequence 1281, Ap |
| 630 | 27 | 52.9 | 532 | 11 | US-11-045-004-1144 | Sequence 1144, Ap |
| 631 | 27 | 52.9 | 535 | 9 | US-10-507-755-5 | Sequence 5, Appli |
| 632 | 27 | 52.9 | 538 | 11 | US-11-079-463-7869 | Sequence 7869, Ap |
| 633 | 27 | 52.9 | 550 | 11 | US-11-188-298-6080 | Sequence 6080, Ap |
| 634 | 27 | 52.9 | 550 | 11 | US-11-188-298-20581 | Sequence 20581, A |
| 635 | 27 | 52.9 | 550 | 11 | US-11-264-096-1284 | Sequence 1284, Ap |
| 636 | 27 | 52.9 | 554 | 11 | US-11-055-822-998 | Sequence 998, App |
| 637 | 27 | 52.9 | 554 | 11 | US-11-045-004-826 | Sequence 826, App |
| 638 | 27 | 52.9 | 558 | 9 | US-10-330-773-822 | Sequence 822, App |
| 639 | 27 | 52.9 | 560 | 11 | US-11-096-568A-31031 | Sequence 31031, A |
| 640 | 27 | 52.9 | 563 | 11 | US-11-096-568A-31030 | Sequence 31030, A |
| 641 | 27 | 52.9 | 570 | 11 | US-11-113-424-69 | Sequence 69, Appl |
| 642 | 27 | 52.9 | 570 | 11 | US-11-113-424-71 | Sequence 71, Appl |
| 643 | 27 | 52.9 | 571 | 11 | US-11-079-463-8124 | Sequence 8124, Ap |
| 644 | 27 | 52.9 | 572 | 11 | US-11-096-568A-28064 | Sequence 28064, A |
| 645 | 27 | 52.9 | 575 | 11 | US-11-188-298-13893 | Sequence 13893, A |
| 646 | 27 | 52.9 | 580 | 11 | US-11-054-281-95 | Sequence 95, Appl |
| 647 | 27 | 52.9 | 580 | 11 | US-11-079-463-9018 | Sequence 9018, Ap |
| 648 | 27 | 52.9 | 585 | 11 | US-11-054-281-92 | Sequence 92, Appl |
| 649 | 27 | 52.9 | 586 | 11 | US-11-054-281-93 | Sequence 93, Appl |
| 650 | 27 | 52.9 | 610 | 9 | US-10-455-772-1094 | Sequence 1094, Ap |
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| 652 | 27 | 52.9 | 623 | 11 | US-11-087-099-495 | Sequence 495, App |
| 653 | 27 | 52.9 | 646 | 11 | US-11-096-568A-28063 | Sequence 28063, A |
| 654 | 27 | 52.9 | 657 | 11 | US-11-096-568A-32797 | Sequence 32797, A |
| 655 | 27 | 52.9 | 662 | 9 | US-10-455-772-1096 | Sequence 1096, Ap |
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| 657 | 27 | 52.9 | 666 | 11 | US-11-188-298-1671 | Sequence 1671, Ap |
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| 664 | 27 | 52.9 | 730 | 11 | US-11-113-424-50 | Sequence 50, Appl |
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| 666 | 27 | 52.9 | 747 | 11 | US-11-113-424-26 | Sequence 26, Appl |
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| 668 | 27 | 52.9 | 749 | 11 | US-11-087-099-6685 | Sequence 6685, Ap |
| 669 | 27 | 52.9 | 749 | 11 | US-11-188-298-17142 | Sequence 17142, A |
| 670 | 27 | 52.9 | 750 | 11 | US-11-087-099-5543 | Sequence 5543, Ap |
| 671 | 27 | 52.9 | 750 | 11 | US-11-188-298-16098 | Sequence 16098, A |
| 672 | 27 | 52.9 | 759 | 9 | US-10-858-730-75 | Sequence 75, Appl |
| 673 | 27 | 52.9 | 760 | 9 | US-10-858-730-76 | Sequence 76, Appl |
| 674 | 27 | 52.9 | 765 | 11 | US-11-188-298-14426 | Sequence 14426, A |
| 675 | 27 | 52.9 | 793 | 11 | US-11-096-568A-31203 | Sequence 31203, A |
| 676 | 27 | 52.9 | 807 | 11 | US-11-087-099-12161 | Sequence 12161, A |
| 677 | 27 | 52.9 | 818 | 11 | US-11-037-243-111 | Sequence 111, App |
| 678 | 27 | 52.9 | 831 | 11 | US-11-188-298-16441 | Sequence 16441, A |

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| 680 | 27 | 52.9 | 893 | 11 | US-11-098-686-10481 | Sequence 10481, A |
| 681 | 27 | 52.9 | 951 | 11 | US-11-078-915-19 | Sequence 19, Appl |
| 682 | 27 | 52.9 | 994 | 11 | US-11-078-915-18 | Sequence 18, Appl |
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| 684 | 27 | 52.9 | 1032 | 9 | US-10-392-234A-67 | Sequence 67, Appl |
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| 686 | 27 | 52.9 | 1132 | 9 | US-10-915-002-224 | Sequence 224, App |
| 687 | 27 | 52.9 | 1288 | 11 | US-11-052-554A-93 | Sequence 93, Appl |
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| 691 | 27 | 52.9 | 1475 | 9 | US-10-330-773-182 | Sequence 182, App |
| 692 | 27 | 52.9 | 1590 | 9 | US-10-055-877-146 | Sequence 146, App |
| 693 | 27 | 52.9 | 1633 | 9 | US-10-240-771A-2 | Sequence 2, Appli |
| 694 | 27 | 52.9 | 1752 | 9 | US-10-495-083-9 | Sequence 9, Appli |
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| 696 | 27 | 52.9 | 6893 | 11 | US-11-205-109-14 | Sequence 14, Appl |
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| 700 | 26.5 | 52.0 | 581 | 11 | US-11-087-099-8172 | Sequence 8172, Ap |
| 701 | 26.5 | 52.0 | 732 | 11 | US-11-188-298-668 | Sequence 668, App |
| 702 | 26.5 | 52.0 | 876 | 11 | US-11-096-568A-28318 | Sequence 28318, A |
| 703 | 26.5 | 52.0 | 884 | 11 | US-11-096-568A-28317 | Sequence 28317, A |
| 704 | 26.5 | 52.0 | 1049 | 9 | US-10-131-826A-358 | Sequence 358, App |
| 705 | 26.5 | 52.0 | 1049 | 9 | US-10-973-115B-358 | Sequence 358, App |
| 706 | 26.5 | 52.0 | 1049 | 9 | US-10-216-161A-496 | Sequence 496, App |
| 707 | 26.5 | 52.0 | 1049 | 9 | US-10-137-873A-358 | Sequence 358, App |
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| 720 | 26 | 51.0 | 23 | 11 | US-11-152-366-286 | Sequence 286, App |
| 721 | 26 | 51.0 | 32 | 11 | US-11-121-301-17 | Sequence 17, Appl |
| 722 | 26 | 51.0 | 37 | 11 | US-11-004-399-1655 | Sequence 1655, Ap |
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| 727 | 26 | 51.0 | 78 | 11 | US-11-264-096-1337 | Sequence 1337, Ap |
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| 731 | 26 | 51.0 | 81 | 9 | US-10-137-873A-150 | Sequence 150, App |
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| 737 | 26 | 51.0 | 121 | 11 | US-11-096-568A-9365 | Sequence 9365, Ap |
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| 743 | 26 | 51.0 | 142 | 11 | US-11-096-568A-125 | Sequence 125, App |
| 744 | 26 | 51.0 | 144 | 11 | US-11-203-526-30 | Sequence 30, Appl |
| 745 | 26 | 51.0 | 148 | 11 | US-11-087-099-8164 | Sequence 8164, Ap |
| 746 | 26 | 51.0 | 149 | 9 | US-10-995-561-584 | Sequence 584, App |
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| 754 | 26 | 51.0 | 168 | 9 | US-10-467-657-2154 | Sequence 2154, Ap |
| 755 | 26 | 51.0 | 169 | 11 | US-11-144-947-354 | Sequence 354, App |
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| 759 | 26 | 51.0 | 193 | 11 | US-11-188-298-4297 | Sequence 4297, Ap |
| 760 | 26 | 51.0 | 199 | 11 | US-11-087-099-678 | Sequence 678, App |
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| 764 | 26 | 51.0 | 205 | 11 | US-11-096-568A-31374 | Sequence 31374, A |
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| 767 | 26 | 51.0 | 212 | 11 | US-11-096-568A-9363 | Sequence 9363, Ap |
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| 770 | 26 | 51.0 | 219 | 11 | US-11-096-568A-10534 | Sequence 10534, A |
| 771 | 26 | 51.0 | 221 | 11 | US-11-188-298-17304 | Sequence 17304, A |
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| 773 | 26 | 51.0 | 227 | 9 | US-10-793-626-2642 | Sequence 2642, Ap |
| 774 | 26 | 51.0 | 232 | 11 | US-11-096-568A-7343 | Sequence 7343, Ap |
| 775 | 26 | 51.0 | 235 | 11 | US-11-087-099-10385 | Sequence 10385, A |
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| 777 | 26 | 51.0 | 237 | 11 | US-11-045-004-2658 | Sequence 2658, Ap |
| 778 | 26 | 51.0 | 240 | 11 | US-11-079-463-6433 | Sequence 6433, Ap |
| 779 | 26 | 51.0 | 242 | 11 | US-11-096-568A-2215 | Sequence 2215, Ap |
| 780 | 26 | 51.0 | 242 | 11 | US-11-096-568A-30028 | Sequence 30028, A |
| 781 | 26 | 51.0 | 244 | 11 | US-11-079-463-7062 | Sequence 7062, Ap |
| 782 | 26 | 51.0 | 255 | 9 | US-10-170-997-2 | Sequence 2, Appli |
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| 784 | 26 | 51.0 | 255 | 11 | US-11-108-257-2 | Sequence 2, Appli |
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| 786 | 26 | 51.0 | 258 | 8 | US-10-505-928-171 | Sequence 171, App |
| 787 | 26 | 51.0 | 258 | 8 | US-10-511-937-2999 | Sequence 2999, Ap |
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| 795 | 26 | 51.0 | 273 | 9 | US-10-467-962B-71 | Sequence 71, Appl |
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| 797 | 26 | 51.0 | 282 | 11 | US-11-096-568A-24637 | Sequence 24637, A |
| 798 | 26 | 51.0 | 283 | 11 | US-11-079-463-10359 | Sequence 10359, A |
| 799 | 26 | 51.0 | 287 | 11 | US-11-096-568A-24636 | Sequence 24636, A |
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| 801 | 26 | 51.0 | 290 | 11 | US-11-096-568A-10533 | Sequence 10533, A |
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| 805 | 26 | 51.0 | 297 | 11 | US-11-188-298-4285 | Sequence 4285, Ap |
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| 809 | 26 | 51.0 | 309 | 11 | US-11-241-956-14 | Sequence 14, Appl |
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| 811 | 26 | 51.0 | 311 | 11 | US-11-156-300-70 | Sequence 70, Appl |
| 812 | 26 | 51.0 | 313 | 11 | US-11-245-689-44 | Sequence 44, Appl |
| 813 | 26 | 51.0 | 314 | 9 | US-10-877-346-31 | Sequence 31, Appl |
| 814 | 26 | 51.0 | 314 | 11 | US-11-169-041-237 | Sequence 237, App |
| 815 | 26 | 51.0 | 314 | 11 | US-11-188-298-5562 | Sequence 5562, Ap |
| 816 | 26 | 51.0 | 315 | 11 | US-11-096-568A-2213 | Sequence 2213, Ap |
| 817 | 26 | 51.0 | 316 | 11 | US-11-079-463-6248 | Sequence 6248, Ap |
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| 819 | 26 | 51.0 | 321 | 11 | US-11-172-740-727 | Sequence 727, App |
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| 822 | 26 | 51.0 | 323 | 11 | US-11-087-099-12418 | Sequence 12418, A |
| 823 | 26 | 51.0 | 326 | 11 | US-11-037-243-105 | Sequence 105, App |
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| 830 | 26 | 51.0 | 339 | 11 | US-11-174-819-5 | Sequence 5, Appli |
| 831 | 26 | 51.0 | 339 | 11 | US-11-174-819-74 | Sequence 74, Appl |
| 832 | 26 | 51.0 | 342 | 9 | US-10-055-877-335 | Sequence 335, App |
| 833 | 26 | 51.0 | 342 | 11 | US-11-087-099-2825 | Sequence 2825, Ap |
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| 837 | 26 | 51.0 | 347 | 11 | US-11-188-298-4925 | Sequence 4925, Ap |
| 838 | 26 | 51.0 | 347 | 11 | US-11-188-298-11437 | Sequence 11437, A |
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| 841 | 26 | 51.0 | 351 | 11 | US-11-174-751-6 | Sequence 6, Appli |
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| 849 | 26 | 51.0 | 360 | 10 | US-11-242-111-19 | Sequence 19, Appl |
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| 855 | 26 | 51.0 | 373 | 9 | US-10-195-883-372 | Sequence 372, App |
| 856 | 26 | 51.0 | 373 | 9 | US-10-195-888-372 | Sequence 372, App |
| 857 | 26 | 51.0 | 373 | 9 | US-10-195-889-372 | Sequence 372, App |
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| 861 | 26 | 51.0 | 379 | 9 | US-10-973-115B-216 | Sequence 216, App |
| 862 | 26 | 51.0 | 379 | 9 | US-10-137-873A-216 | Sequence 216, App |
| 863 | 26 | 51.0 | 379 | 9 | US-10-152-370-216 | Sequence 216, App |
| 864 | 26 | 51.0 | 379 | 11 | US-11-290-153-216 | Sequence 216, App |
| 865 | 26 | 51.0 | 380 | 9 | US-10-506-454-872 | Sequence 872, App |
| 866 | 26 | 51.0 | 380 | 11 | US-11-116-939-2 | Sequence 2, Appli |
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| 869 | 26 | 51.0 | 385 | 11 | US-11-051-720-1385 | Sequence 1385, Ap |
| 870 | 26 | 51.0 | 387 | 9 | US-10-895-064-611 | Sequence 611, App |
| 871 | 26 | 51.0 | 387 | 11 | US-11-129-741-611 | Sequence 611, App |
| 872 | 26 | 51.0 | 389 | 11 | US-11-188-298-18334 | Sequence 18334, A |
| 873 | 26 | 51.0 | 391 | 11 | US-11-084-624-14 | Sequence 14, Appl |
| 874 | 26 | 51.0 | 394 | 9 | US-10-506-454-156 | Sequence 156, App |
| 875 | 26 | 51.0 | 394 | 11 | US-11-264-096-639 | Sequence 639, App |
| 876 | 26 | 51.0 | 399 | 11 | US-11-051-720-1388 | Sequence 1388, Ap |
| 877 | 26 | 51.0 | 407 | 11 | US-11-117-161-2 | Sequence 2, Appli |
| 878 | 26 | 51.0 | 407 | 11 | US-11-080-257-2 | Sequence 2, Appli |
| 879 | 26 | 51.0 | 410 | 11 | US-11-096-568A-10050 | Sequence 10050, A |
| 880 | 26 | 51.0 | 410 | 11 | US-11-096-568A-15495 | Sequence 15495, A |
| 881 | 26 | 51.0 | 410 | 11 | US-11-096-568A-17522 | Sequence 17522, A |
| 882 | 26 | 51.0 | 410 | 11 | US-11-096-568A-20785 | Sequence 20785, A |
| 883 | 26 | 51.0 | 410 | 11 | US-11-096-568A-21664 | Sequence 21664, A |
| 884 | 26 | 51.0 | 411 | 11 | US-11-188-298-19357 | Sequence 19357, A |
| 885 | 26 | 51.0 | 412 | 11 | US-11-188-298-574 | Sequence 574, App |
| 886 | 26 | 51.0 | 414 | 11 | US-11-096-568A-20784 | Sequence 20784, A |
| 887 | 26 | 51.0 | 419 | 9 | US-10-957-746-6 | Sequence 6, Appli |
| 888 | 26 | 51.0 | 419 | 10 | US-11-302-678-65 | Sequence 65, Appl |
| 889 | 26 | 51.0 | 419 | 11 | US-11-188-298-10420 | Sequence 10420, A |
| 890 | 26 | 51.0 | 420 | 11 | US-11-096-568A-10049 | Sequence 10049, A |
| 891 | 26 | 51.0 | 420 | 11 | US-11-096-568A-15494 | Sequence 15494, A |
| 892 | 26 | 51.0 | 420 | 11 | US-11-096-568A-21663 | Sequence 21663, A |
| 893 | 26 | 51.0 | 420 | 11 | US-11-172-740-1212 | Sequence 1212, Ap |
| 894 | 26 | 51.0 | 420 | 11 | US-11-172-740-1213 | Sequence 1213, Ap |
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| 897 | 26 | 51.0 | 423 | 11 | US-11-096-568A-18776 | Sequence 18776, A |
| 898 | 26 | 51.0 | 425 | 11 | US-11-096-568A-20783 | Sequence 20783, A |
| 899 | 26 | 51.0 | 427 | 11 | US-11-096-568A-21600 | Sequence 21600, A |
| 900 | 26 | 51.0 | 428 | 11 | US-11-098-686-10097 | Sequence 10097, A |
| 901 | 26 | 51.0 | 431 | 9 | US-10-485-517-182 | Sequence 182, App |
| 902 | 26 | 51.0 | 431 | 11 | US-11-092-140-6 | Sequence 6, Appli |
| 903 | 26 | 51.0 | 433 | 11 | US-11-152-366-44 | Sequence 44, Appl |
| 904 | 26 | 51.0 | 433 | 11 | US-11-079-463-8656 | Sequence 8656, Ap |
| 905 | 26 | 51.0 | 435 | 11 | US-11-098-686-11222 | Sequence 11222, A |
| 906 | 26 | 51.0 | 436 | 11 | US-11-096-568A-21599 | Sequence 21599, A |
| 907 | 26 | 51.0 | 439 | 11 | US-11-045-004-1683 | Sequence 1683, Ap |
| 908 | 26 | 51.0 | 446 | 11 | US-11-096-568A-32001 | Sequence 32001, A |
| 909 | 26 | 51.0 | 448 | 9 | US-10-194-487-408 | Sequence 408, App |
| 910 | 26 | 51.0 | 448 | 9 | US-10-195-883-408 | Sequence 408, App |
| 911 | 26 | 51.0 | 448 | 9 | US-10-195-888-408 | Sequence 408, App |
| 912 | 26 | 51.0 | 448 | 9 | US-10-195-889-408 | Sequence 408, App |
| 913 | 26 | 51.0 | 448 | 11 | US-11-065-695-18 | Sequence 18, Appl |
| 914 | 26 | 51.0 | 449 | 9 | US-10-330-773-843 | Sequence 843, App |
| 915 | 26 | 51.0 | 449 | 11 | US-11-096-568A-8176 | Sequence 8176, Ap |
| 916 | 26 | 51.0 | 449 | 11 | US-11-079-463-5270 | Sequence 5270, Ap |
| 917 | 26 | 51.0 | 453 | 8 | US-10-511-937-2485 | Sequence 2485, Ap |
| 918 | 26 | 51.0 | 455 | 11 | US-11-098-686-10949 | Sequence 10949, A |
| 919 | 26 | 51.0 | 455 | 11 | US-11-087-099-8176 | Sequence 8176, Ap |
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| 921 | 26 | 51.0 | 465 | 11 | US-11-087-099-8665 | Sequence 8665, Ap |
| 922 | 26 | 51.0 | 465 | 11 | US-11-188-298-19056 | Sequence 19056, A |
| 923 | 26 | 51.0 | 467 | 11 | US-11-096-568A-21598 | Sequence 21598, A |
| 924 | 26 | 51.0 | 470 | 9 | US-10-330-773-840 | Sequence 840, App |
| 925 | 26 | 51.0 | 470 | 11 | US-11-087-099-3614 | Sequence 3614, Ap |
| 926 | 26 | 51.0 | 470 | 11 | US-11-188-298-14390 | Sequence 14390, A |
| 927 | 26 | 51.0 | 472 | 9 | US-10-467-657-2268 | Sequence 2268, Ap |
| 928 | 26 | 51.0 | 475 | 9 | US-10-194-487-260 | Sequence 260, App |
| 929 | 26 | 51.0 | 475 | 9 | US-10-195-883-260 | Sequence 260, App |
| 930 | 26 | 51.0 | 475 | 9 | US-10-195-888-260 | Sequence 260, App |
| 931 | 26 | 51.0 | 475 | 9 | US-10-195-889-260 | Sequence 260, App |
| 932 | 26 | 51.0 | 475 | 10 | US-11-254-195-9 | Sequence 9, Appli |
| 933 | 26 | 51.0 | 475 | 11 | US-11-096-568A-21662 | Sequence 21662, A |
| 934 | 26 | 51.0 | 481 | 11 | US-11-072-512-2394 | Sequence 2394, Ap |
| 935 | 26 | 51.0 | 481 | 11 | US-11-188-298-20529 | Sequence 20529, A |
| 936 | 26 | 51.0 | 484 | 11 | US-11-024-959-351 | Sequence 351, App |
| 937 | 26 | 51.0 | 485 | 9 | US-10-821-234-934 | Sequence 934, App |
| 938 | 26 | 51.0 | 487 | 11 | US-11-087-099-5032 | Sequence 5032, Ap |
| 939 | 26 | 51.0 | 487 | 11 | US-11-188-298-4636 | Sequence 4636, Ap |
| 940 | 26 | 51.0 | 489 | 11 | US-11-079-463-10051 | Sequence 10051, A |
| 941 | 26 | 51.0 | 490 | 11 | US-11-096-568A-31601 | Sequence 31601, A |
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| 945 | 26 | 51.0 | 496 | 11 | US-11-051-720-1453 | Sequence 1453, Ap |
| 946 | 26 | 51.0 | 496 | 11 | US-11-096-568A-31600 | Sequence 31600, A |
| 947 | 26 | 51.0 | 503 | 11 | US-11-087-099-7634 | Sequence 7634, Ap |
| 948 | 26 | 51.0 | 503 | 11 | US-11-188-298-7012 | Sequence 7012, Ap |
| 949 | 26 | 51.0 | 503 | 11 | US-11-188-298-17847 | Sequence 17847, A |
| 950 | 26 | 51.0 | 504 | 11 | US-11-188-298-18441 | Sequence 18441, A |
| 951 | 26 | 51.0 | 505 | 11 | US-11-188-298-3480 | Sequence 3480, Ap |
| 952 | 26 | 51.0 | 506 | 11 | US-11-188-298-1725 | Sequence 1725, Ap |
| 953 | 26 | 51.0 | 506 | 11 | US-11-188-298-3369 | Sequence 3369, Ap |
| 954 | 26 | 51.0 | 506 | 11 | US-11-188-298-4288 | Sequence 4288, Ap |
| 955 | 26 | 51.0 | 506 | 11 | US-11-188-298-4385 | Sequence 4385, Ap |
| 956 | 26 | 51.0 | 506 | 11 | US-11-188-298-4421 | Sequence 4421, Ap |
| 957 | 26 | 51.0 | 506 | 11 | US-11-188-298-8239 | Sequence 8239, Ap |
| 958 | 26 | 51.0 | 506 | 11 | US-11-188-298-10434 | Sequence 10434, A |
| 959 | 26 | 51.0 | 506 | 11 | US-11-188-298-11111 | Sequence 11111, A |
| 960 | 26 | 51.0 | 506 | 11 | US-11-188-298-12769 | Sequence 12769, A |
| 961 | 26 | 51.0 | 506 | 11 | US-11-188-298-16965 | Sequence 16965, A |
| 962 | 26 | 51.0 | 506 | 11 | US-11-188-298-17670 | Sequence 17670, A |
| 963 | 26 | 51.0 | 506 | 11 | US-11-188-298-19550 | Sequence 19550, A |
| 964 | 26 | 51.0 | 506 | 11 | US-11-188-298-22157 | Sequence 22157, A |
| 965 | 26 | 51.0 | 507 | 11 | US-11-188-298-1264 | Sequence 1264, Ap |
| 966 | 26 | 51.0 | 508 | 11 | US-11-096-568A-22465 | Sequence 22465, A |
| 967 | 26 | 51.0 | 509 | 11 | US-11-096-568A-15493 | Sequence 15493, A |
| 968 | 26 | 51.0 | 512 | 11 | US-11-096-568A-31316 | Sequence 31316, A |
| 969 | 26 | 51.0 | 517 | 8 | US-10-505-928-776 | Sequence 776, App |
| 970 | 26 | 51.0 | 518 | 11 | US-11-135-603-7 | Sequence 7, Appli |

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| 971 | 26 | 51.0 | 520 | 11 | US-11-096-568A-31315 | Sequence 31315, A |
| 972 | 26 | 51.0 | 520 | 11 | US-11-188-298-2171 | Sequence 2171, Ap |
| 973 | 26 | 51.0 | 522 | 11 | US-11-072-512-3665 | Sequence 3665, Ap |
| 974 | 26 | 51.0 | 524 | 9 | US-10-506-454-621 | Sequence 621, App |
| 975 | 26 | 51.0 | 526 | 11 | US-11-188-298-5033 | Sequence 5033, Ap |
| 976 | 26 | 51.0 | 526 | 11 | US-11-188-298-20205 | Sequence 20205, A |
| 977 | 26 | 51.0 | 527 | 11 | US-11-096-568A-13109 | Sequence 13109, A |
| 978 | 26 | 51.0 | 527 | 11 | US-11-188-298-6052 | Sequence 6052, Ap |
| 979 | 26 | 51.0 | 528 | 11 | US-11-188-298-8558 | Sequence 8558, Ap |
| 980 | 26 | 51.0 | 528 | 11 | US-11-188-298-11602 | Sequence 11602, A |
| 981 | 26 | 51.0 | 529 | 11 | US-11-188-298-3912 | Sequence 3912, Ap |
| 982 | 26 | 51.0 | 533 | 11 | US-11-128-059-58 | Sequence 58, Appl |
| 983 | 26 | 51.0 | 534 | 11 | US-11-096-568A-31599 | Sequence 31599, A |
| 984 | 26 | 51.0 | 535 | 9 | US-10-501-035-261 | Sequence 261, App |
| 985 | 26 | 51.0 | 537 | 8 | US-10-511-937-2607 | Sequence 2607, Ap |
| 986 | 26 | 51.0 | 537 | 11 | US-11-152-366-43 | Sequence 43, Appl |
| 987 | 26 | 51.0 | 537 | 11 | US-11-169-041-132 | Sequence 132, App |
| 988 | 26 | 51.0 | 537 | 11 | US-11-169-041-134 | Sequence 134, App |
| 989 | 26 | 51.0 | 538 | 11 | US-11-188-298-18680 | Sequence 18680, A |
| 990 | 26 | 51.0 | 539 | 11 | US-11-096-568A-22464 | Sequence 22464, A |
| 991 | 26 | 51.0 | 539 | 11 | US-11-188-298-1395 | Sequence 1395, Ap |
| 992 | 26 | 51.0 | 539 | 11 | US-11-188-298-8468 | Sequence 8468, Ap |
| 993 | 26 | 51.0 | 539 | 11 | US-11-188-298-11452 | Sequence 11452, A |
| 994 | 26 | 51.0 | 539 | 11 | US-11-188-298-14092 | Sequence 14092, A |
| 995 | 26 | 51.0 | 539 | 11 | US-11-188-298-20081 | Sequence 20081, A |
| 996 | 26 | 51.0 | 541 | 9 | US-10-995-561-519 | Sequence 519, App |
| 997 | 26 | 51.0 | 541 | 9 | US-10-995-561-521 | Sequence 521, App |
| 998 | 26 | 51.0 | 541 | 11 | US-11-188-298-2545 | Sequence 2545, Ap |
| 999 | 26 | 51.0 | 541 | 11 | US-11-188-298-5545 | Sequence 5545, Ap |
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ALIGNMENTS

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RESULT 1
US-10-530-061-1657
; Sequence 1657, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1657
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-1657

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Qy          1 CYSLYGTTL 9
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Db          3 CYSLYGTTL 11


RESULT 2
US-10-530-061-1658
; Sequence 1658, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
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;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-1658

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Db          1 CYSLYGTTL 9


RESULT 3
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
;  APPLICANT: HealthBanks Biotech CO. LTD.
;  TITLE OF INVENTION: Fusion protein for inhibiting cervcal cancer
;  FILE REFERENCE: P7819/0613
;  CURRENT APPLICATION NUMBER: US/11/206,138
;  CURRENT FILING DATE:  2005-08-18
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-11-206-138-3

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Db         87 CYSLYGTTL 95


RESULT 4
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
;  APPLICANT: PANG, XIAOWU
;  TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
;  TITLE OF INVENTION:  RECOMBINANT REPLICON
;  FILE REFERENCE: 116620-003
;  CURRENT APPLICATION NUMBER: US/11/192,923A
;  CURRENT FILING DATE:  2005-07-29
;  PRIOR APPLICATION NUMBER: CN 03115272.4
;  PRIOR FILING DATE: 2003-01-30
;  PRIOR APPLICATION NUMBER: CN 03115273.2
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;  PRIOR FILING DATE: 2003-01-30
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
;   LENGTH: 256
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-11-192-923A-2

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Db        185 CYSLYGTTL 193


RESULT 5
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-13

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Qy          1 CYSLYGTTL 9
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Db         80 CYSVYGTTL 88


RESULT 6
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-1

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Qy          1 CYSLYGTTL 9
              |||:|||||
Db         80 CYSVYGTTL 88


RESULT 7
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-3

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              |||:|||||
Db         80 CYSVYGTTL 88


RESULT 8
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
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;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-5

  Query Match             94.1%;  Score 48;  DB 9;  Length 248;
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Qy          1 CYSLYGTTL 9
              |||:|||||
Db         80 CYSVYGTTL 88


RESULT 9
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-7

  Query Match             94.1%;  Score 48;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 0.2;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||:|||||
Db        177 CYSVYGTTL 185


RESULT 10
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-9

  Query Match             94.1%;  Score 48;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 0.2;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||:|||||
Db        177 CYSVYGTTL 185


RESULT 11
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-11

  Query Match             94.1%;  Score 48;  DB 9;  Length 248;
  Best Local Similarity   88.9%;  Pred. No. 0.2;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |||:|||||
Db        177 CYSVYGTTL 185


RESULT 12
US-10-530-061-804
; Sequence 804, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 804
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-804

  Query Match             92.2%;  Score 47;  DB 9;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.9e+05;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              ||||||||
Db          1 CYSLYGTT 8


RESULT 13
```

```
US-10-530-061-541
; Sequence 541, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 541
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-541

  Query Match             76.5%;  Score 39;  DB 9;  Length 10;
  Best Local Similarity   87.5%;  Pred. No. 0.54;
  Matches    7;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 YSLYGTTL 9
              ||:|||||
Db          1 YSVYGTTL 8


RESULT 14
US-10-530-061-1672
; Sequence 1672, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1672
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-1672

  Query Match             76.5%;  Score 39;  DB 9;  Length 15;
  Best Local Similarity   87.5%;  Pred. No. 0.76;
  Matches    7;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 YSLYGTTL 9
              ||:|||||
Db          4 YSVYGTTL 11


RESULT 15
US-10-530-253-16
; Sequence 16, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 31
US-10-530-253-16

  Query Match             76.5%;  Score 39;  DB 9;  Length 149;
  Best Local Similarity   87.5%;  Pred. No. 5.2;
  Matches    7;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 YSLYGTTL 9
              ||:|||||
Db         81 YSVYGTTL 88


RESULT 16
US-10-530-253-22
; Sequence 22, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 22
;   LENGTH: 148
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 52
US-10-530-253-22

  Query Match             70.6%;  Score 36;  DB 9;  Length 148;
  Best Local Similarity   87.5%;  Pred. No. 18;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YSLYGTTL 9
              ||||| ||
Db         81 YSLYGKTL 88


RESULT 17
US-10-530-253-24
; Sequence 24, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
```

; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 24
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 58
US-10-530-253-24

Query Match 70.6%; Score 36; DB 9; Length 149;
Best Local Similarity 87.5%; Pred. No. 18;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 YSLYGTTL 9
|||||:||
Db 81 YSLYGDTL 88

RESULT 18
US-11-079-463-6004
; Sequence 6004, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 6004
; LENGTH: 398
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-6004

Query Match 70.6%; Score 36; DB 11; Length 398;
Best Local Similarity 66.7%; Pred. No. 41;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CYSLYGTTL 9
|| ||:||
Db 83 CYVTYGSTL 91

RESULT 19
US-11-113-424-35
; Sequence 35, Application US/11113424
; Publication No. US20050260713A1
; GENERAL INFORMATION:
; APPLICANT: Gangolli et al.
; TITLE OF INVENTION: Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-225
; CURRENT APPLICATION NUMBER: US/11/113,424
; CURRENT FILING DATE: 2005-04-21
; PRIOR APPLICATION NUMBER: 60/256,704
; PRIOR FILING DATE: 2000-12-19
; PRIOR APPLICATION NUMBER: 60/311,590
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/257,314
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: 60/311,613
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/315,617
; PRIOR FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/307,506
; PRIOR FILING DATE: 2001-07-24
; PRIOR APPLICATION NUMBER: 60/322,358
; PRIOR FILING DATE: 2001-09-14
; PRIOR APPLICATION NUMBER: 60/294,075
; PRIOR FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: 60/288,153
; PRIOR FILING DATE: 2001-05-02
; NUMBER OF SEQ ID NOS: 190
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 961
; TYPE: PRT
; ORGANISM: Mus musculus
US-11-113-424-35

Query Match 68.6%; Score 35; DB 11; Length 961;
Best Local Similarity 85.7%; Pred. No. 1.3e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 YSLYGTT 8
|:|||||
Db 352 YTLYGTT 358

RESULT 20
US-10-530-061-1679
; Sequence 1679, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1679
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1679

Query Match 66.7%; Score 34; DB 9; Length 15;
Best Local Similarity 75.0%; Pred. No. 5.9;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 YSLYGTTL 9
||:|| ||
Db 2 YSVYGNTL 9

RESULT 21
US-10-530-061-1694
; Sequence 1694, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M

; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1694
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1694

Query Match 66.7%; Score 34; DB 9; Length 15;
Best Local Similarity 75.0%; Pred. No. 5.9;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 YSLYGTTL 9
||:|| ||
Db 4 YSVYGATL 11

RESULT 22
US-10-530-253-17
; Sequence 17, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 33
US-10-530-253-17

Query Match 66.7%; Score 34; DB 9; Length 149;
Best Local Similarity 75.0%; Pred. No. 41;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 YSLYGTTL 9
||:|| ||
Db 81 YSVYGNTL 88

RESULT 23
US-10-530-253-23
; Sequence 23, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 23
; LENGTH: 155
; TYPE: PRT
; ORGANISM: Human papillomavirus type 56
US-10-530-253-23

Query Match 66.7%; Score 34; DB 9; Length 155;
Best Local Similarity 75.0%; Pred. No. 43;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 YSLYGTTL 9
||:|| ||
Db 84 YSVYGATL 91

RESULT 24
US-11-188-298-16753
; Sequence 16753, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 16753
; LENGTH: 348
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-11-188-298-16753

Query Match 66.7%; Score 34; DB 11; Length 348;
Best Local Similarity 50.0%; Pred. No. 84;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYSLYGTT 8
||:||::
Db 173 CYAMYGSS 180

RESULT 25
US-11-052-554A-99
; Sequence 99, Application US/11052554A
; Publication No. US20050288866A1
; GENERAL INFORMATION:
; APPLICANT: Sachdeva, et al.
; TITLE OF INVENTION: COMPUTATIONAL METHOD FOR IDENTIFYING ADHESIN AND ADHESIN-LIKE
; TITLE OF INVENTION: PROTEINS OF THERAPEUTIC POTENTIAL
; FILE REFERENCE: 30853/40359A
; CURRENT APPLICATION NUMBER: US/11/052,554A
; CURRENT FILING DATE: 2005-02-07
; PRIOR APPLICATION NUMBER: US 60/589,227
; PRIOR FILING DATE: 2004-07-20
; PRIOR APPLICATION NUMBER: IN 173/DEL/2004
; PRIOR FILING DATE: 2004-02-06
; NUMBER OF SEQ ID NOS: 763
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 99
; LENGTH: 690
; TYPE: PRT
; ORGANISM: Helicobacter pylori J99
US-11-052-554A-99

Query Match 66.7%; Score 34; DB 11; Length 690;
Best Local Similarity 87.5%; Pred. No. 1.5e+02;

```
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YSLYGTTL 9
              ||| ||||
Db        667 YSLLGTTL 674


RESULT 26
US-10-530-061-540
; Sequence 540, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 540
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-540

  Query Match             64.7%;  Score 33;  DB 9;  Length 10;
  Best Local Similarity   75.0%;  Pred. No. 6.4;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YSLYGTTL 9
              | :|||||
Db          1 YFVYGTTL 8


RESULT 27
US-10-530-253-18
; Sequence 18, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 35
US-10-530-253-18

  Query Match             64.7%;  Score 33;  DB 9;  Length 149;
  Best Local Similarity   75.0%;  Pred. No. 62;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YSLYGTTL 9
              ||:|| ||
Db         81 YSVYGETL 88


RESULT 28
US-11-096-568A-21684
; Sequence 21684, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 21684
;   LENGTH: 275
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(275)
;   OTHER INFORMATION: Ceres Seq. ID no. 12405704
US-11-096-568A-21684

  Query Match             64.7%;  Score 33;  DB 11;  Length 275;
  Best Local Similarity   100.0%;  Pred. No. 1e+02;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 YSLYGT 7
              ||||||
Db         98 YSLYGT 103


RESULT 29
US-11-096-568A-6455
; Sequence 6455, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 6455
;   LENGTH: 304
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(304)
;   OTHER INFORMATION: Ceres Seq. ID no. 14315252
US-11-096-568A-6455

  Query Match             64.7%;  Score 33;  DB 11;  Length 304;
  Best Local Similarity   75.0%;  Pred. No. 1.1e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YSLYGTTL 9
              || ||||:
Db         65 YSNYGTTI 72


RESULT 30
US-11-096-568A-6454
; Sequence 6454, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
```

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;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 6454
;   LENGTH: 306
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(306)
;   OTHER INFORMATION: Ceres Seq. ID no. 14315251
US-11-096-568A-6454

  Query Match             64.7%;  Score 33;  DB 11;  Length 306;
  Best Local Similarity   75.0%;  Pred. No. 1.1e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YSLYGTTL 9
              || |||| :
Db         67 YSNYGTTI 74


RESULT 31
US-11-096-568A-6453
; Sequence 6453, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 6453
;   LENGTH: 322
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(322)
;   OTHER INFORMATION: Ceres Seq. ID no. 14315250
US-11-096-568A-6453

  Query Match             64.7%;  Score 33;  DB 11;  Length 322;
  Best Local Similarity   75.0%;  Pred. No. 1.2e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YSLYGTTL 9
              || |||| :
Db         83 YSNYGTTI 90


RESULT 32
US-11-188-298-4673
; Sequence 4673, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 4673
;   LENGTH: 342
;   TYPE: PRT
;   ORGANISM: Eremothecium gossypii
US-11-188-298-4673

  Query Match             64.7%;  Score 33;  DB 11;  Length 342;
  Best Local Similarity   50.0%;  Pred. No. 1.3e+02;
  Matches    4;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              ||::|| :
Db        173 CYAMYGAS 180


RESULT 33
US-11-096-568A-21683
; Sequence 21683, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 21683
;   LENGTH: 350
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(350)
;   OTHER INFORMATION: Ceres Seq. ID no. 12405703
US-11-096-568A-21683

  Query Match             64.7%;  Score 33;  DB 11;  Length 350;
  Best Local Similarity   100.0%;  Pred. No. 1.3e+02;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 YSLYGT 7
              ||||||
Db        173 YSLYGT 178


RESULT 34
US-11-188-298-17135
; Sequence 17135, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 17135
;   LENGTH: 355
;   TYPE: PRT
;   ORGANISM: Kluyveromyces lactis
US-11-188-298-17135

  Query Match             64.7%;  Score 33;  DB 11;  Length 355;
  Best Local Similarity   50.0%;  Pred. No. 1.3e+02;
  Matches    4;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              ||::|| :
Db        181 CYTMYGAS 188


RESULT 35
US-11-079-463-6404
; Sequence 6404, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
```

```
;  APPLICANT: Gary L. Breton
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PATH00-03DIV2
;  CURRENT APPLICATION NUMBER: US/11/079,463
;  CURRENT FILING DATE:  2005-03-14
;  PRIOR APPLICATION NUMBER: US 60/128,705
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/540,209
;  PRIOR FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 6404
;   LENGTH: 374
;   TYPE: PRT
;   ORGANISM: B.fragilis
US-11-079-463-6404

  Query Match             64.7%;  Score 33;  DB 11;  Length 374;
  Best Local Similarity   66.7%;  Pred. No. 1.3e+02;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              ||  || ||
Db        267 CYLRYGETL 275


RESULT 36
US-11-096-568A-21682
; Sequence 21682, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 21682
;   LENGTH: 388
;   TYPE: PRT
;   ORGANISM: Zea mays subsp. mays
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(388)
;   OTHER INFORMATION: Ceres Seq. ID no. 12405702
US-11-096-568A-21682

  Query Match             64.7%;  Score 33;  DB 11;  Length 388;
  Best Local Similarity   100.0%;  Pred. No. 1.4e+02;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 YSLYGT 7
              ||||||
Db        211 YSLYGT 216


RESULT 37
US-11-098-686-10093
; Sequence 10093, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
;  APPLICANT: Kapur, Vivek and Gebhart, Connie J.
;  TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
;  TITLE OF INVENTION:  FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
;  FILE REFERENCE: 09531-128001
;  CURRENT APPLICATION NUMBER: US/11/098,686
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31318
;  PRIOR FILING DATE: 2003-10-01
;  PRIOR APPLICATION NUMBER: US 60/416,395
;  PRIOR FILING DATE: 2002-10-04
;  NUMBER OF SEQ ID NOS: 11433
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10093
;   LENGTH: 653
;   TYPE: PRT
;   ORGANISM: Lawsonia intracellularis
US-11-098-686-10093

  Query Match             64.7%;  Score 33;  DB 11;  Length 653;
  Best Local Similarity   66.7%;  Pred. No. 2.2e+02;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTTL 9
              |  ||| ||
Db        472 CIGLYGLTL 480


RESULT 38
US-10-530-061-107
; Sequence 107, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 107
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-107

  Query Match             62.7%;  Score 32;  DB 9;  Length 9;
  Best Local Similarity   85.7%;  Pred. No. 1.9e+05;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YSLYGTT 8
              ||||| |
Db          2 YSLYGDT 8


RESULT 39
US-10-530-061-612
; Sequence 612, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 612
;   LENGTH: 9
```

```
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-612

  Query Match             62.7%;  Score 32;  DB 9;  Length 9;
  Best Local Similarity   85.7%;  Pred. No. 1.9e+05;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 SLYGTTL 9
              |:|||||
Db          1 SVYGTTL 7


RESULT 40
US-10-530-061-844
; Sequence 844, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 844
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-844

  Query Match             62.7%;  Score 32;  DB 9;  Length 9;
  Best Local Similarity   85.7%;  Pred. No. 1.9e+05;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YSLYGTT 8
              ||||| |
Db          2 YSLYGDT 8


RESULT 41
US-11-079-463-6705
; Sequence 6705, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PATH00-03DIV2
;  CURRENT APPLICATION NUMBER: US/11/079,463
;  CURRENT FILING DATE:  2005-03-14
;  PRIOR APPLICATION NUMBER: US 60/128,705
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/540,209
;  PRIOR FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 6705
;   LENGTH: 73
;   TYPE: PRT
;   ORGANISM: B.fragilis
US-11-079-463-6705

  Query Match             62.7%;  Score 32;  DB 11;  Length 73;
  Best Local Similarity   75.0%;  Pred. No. 51;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YSLYGTTL 9
              || :||||
Db         48 YSKFGTTL 55


RESULT 42
US-11-079-463-7668
; Sequence 7668, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRAC
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PATH00-03DIV2
;  CURRENT APPLICATION NUMBER: US/11/079,463
;  CURRENT FILING DATE:  2005-03-14
;  PRIOR APPLICATION NUMBER: US 60/128,705
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/540,209
;  PRIOR FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 7668
;   LENGTH: 132
;   TYPE: PRT
;   ORGANISM: B.fragilis
US-11-079-463-7668

  Query Match             62.7%;  Score 32;  DB 11;  Length 132;
  Best Local Similarity   62.5%;  Pred. No. 85;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              | |:|| |
Db         35 CMSIYGNT 42


RESULT 43
US-10-530-253-21
; Sequence 21, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 21
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 51
US-10-530-253-21

  Query Match             62.7%;  Score 32;  DB 9;  Length 151;
  Best Local Similarity   85.7%;  Pred. No. 95;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 SLYGTTL 9
              |:|||||
Db         82 SVYGTTL 88


RESULT 44
US-11-087-099-2049
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```
; Sequence 2049, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 2049
;   LENGTH: 202
;   TYPE: PRT
;   ORGANISM: Pseudomonas putida KT2440
US-11-087-099-2049

  Query Match             62.7%;  Score 32;  DB 11;  Length 202;
  Best Local Similarity   62.5%;  Pred. No. 1.2e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              ||: || |
Db        125 CYANYGVT 132


RESULT 45
US-11-087-099-6973
; Sequence 6973, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: Genes and Uses for Plant Improvement
;  FILE REFERENCE: 38-21(53450)B EP
;  CURRENT APPLICATION NUMBER: US/11/087,099
;  CURRENT FILING DATE:  2005-03-22
;  NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 6973
;   LENGTH: 208
;   TYPE: PRT
;   ORGANISM: Pseudomonas fluorescens PfO-1
US-11-087-099-6973

  Query Match             62.7%;  Score 32;  DB 11;  Length 208;
  Best Local Similarity   62.5%;  Pred. No. 1.2e+02;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 CYSLYGTT 8
              ||: || |
Db        128 CYANYGVT 135


RESULT 46
US-11-137-465-57
; Sequence 57, Application US/11137465
; Publication No. US20050255558A1
; GENERAL INFORMATION:
;  APPLICANT: Agarwal, Pankaj
;  APPLICANT:  Murdoch, Paul R.
;  APPLICANT:  Rizvi, Safia, K.
;  APPLICANT:  Smith, Randall, F.
;  APPLICANT:  Xiang, Zhaoying
;  APPLICANT:  Kabnick, Karen
;  TITLE OF INVENTION: NOVEL COMPOUNDS
;  FILE REFERENCE: GP50018
;  CURRENT APPLICATION NUMBER: US/11/137,465
;  CURRENT FILING DATE:  2005-05-25
;  PRIOR APPLICATION NUMBER: US/10/239,663
;  PRIOR FILING DATE: 2002-09-24
;  PRIOR APPLICATION NUMBER: PCT/US01/09226
;  PRIOR FILING DATE: 2001-03-22
;  PRIOR APPLICATION NUMBER: 60/192,158
;  PRIOR FILING DATE: 2000-03-24
;  PRIOR APPLICATION NUMBER: 60/192,668
;  PRIOR FILING DATE: 2000-03-27
;  PRIOR APPLICATION NUMBER: 60/200,166
;  PRIOR FILING DATE: 2000-04-27
;  NUMBER OF SEQ ID NOS: 66
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 57
;   LENGTH: 387
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-137-465-57

  Query Match             62.7%;  Score 32;  DB 11;  Length 387;
  Best Local Similarity   85.7%;  Pred. No. 2.1e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YSLYGTT 8
              | |||||
Db        327 YILYGTT 333


RESULT 47
US-11-079-463-8841
; Sequence 8841, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRAC
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PATH00-03DIV2
;  CURRENT APPLICATION NUMBER: US/11/079,463
;  CURRENT FILING DATE:  2005-03-14
;  PRIOR APPLICATION NUMBER: US 60/128,705
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/540,209
;  PRIOR FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 8841
;   LENGTH: 456
;   TYPE: PRT
;   ORGANISM: B.fragilis
US-11-079-463-8841

  Query Match             62.7%;  Score 32;  DB 11;  Length 456;
  Best Local Similarity   85.7%;  Pred. No. 2.4e+02;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 YSLYGTT 8
              ||||| |
Db        151 YSLYGKT 157


RESULT 48
US-11-096-568A-29109
; Sequence 29109, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides F
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 29109
;   LENGTH: 562
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(562)
;   OTHER INFORMATION: Ceres Seq. ID no. 4264567
US-11-096-568A-29109

  Query Match             62.7%;  Score 32;  DB 11;  Length 562;
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Db        213 CYSKYGS 219


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; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 29028
;   LENGTH: 567
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(567)
;   OTHER INFORMATION: Ceres Seq. ID no. 3599484
US-11-096-568A-29028

  Query Match             62.7%;  Score 32;  DB 11;  Length 567;
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  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

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RESULT 50
US-11-096-568A-29108
; Sequence 29108, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
;  APPLICANT: Alexandrov, Nickolai et al.
;  TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
;  TITLE OF INVENTION:  Therby
;  FILE REFERENCE: 2750-1592PUS2
;  CURRENT APPLICATION NUMBER: US/11/096,568A
;  CURRENT FILING DATE:  2005-04-01
;  NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 29108
;   LENGTH: 580
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(580)
;   OTHER INFORMATION: Ceres Seq. ID no. 4264566
US-11-096-568A-29108

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Qy          1 CYSLYGT 7
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Db        231 CYSKYGS 237


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Job time : 10.4 secs
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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 02:25:57 ; Search time 20.7 Seconds
(without alignments)
35.946 Million cell updates/sec

Title: US-08-170-344-73
Perfect score: 56
Sequence: 1 RFHNIRGRW 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Issued_Patents_AA:*
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2: /cgn2_6/ptodata/1/iaa/6_COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 3 | 56 | 100.0 | 21 | 1 | US-08-934-915-166 | Sequence 166, App |
| 4 | 56 | 100.0 | 22 | 2 | US-09-980-523A-10 | Sequence 10, Appl |
| 5 | 56 | 100.0 | 151 | 2 | US-09-701-080C-18 | Sequence 18, Appl |
| 6 | 56 | 100.0 | 158 | 2 | US-09-980-523A-2 | Sequence 2, Appli |
| 7 | 56 | 100.0 | 162 | 1 | US-08-316-239B-3 | Sequence 3, Appli |
| 8 | 56 | 100.0 | 162 | 1 | US-08-316-239B-4 | Sequence 4, Appli |
| 9 | 56 | 100.0 | 172 | 2 | US-08-860-165-12 | Sequence 12, Appl |
| 10 | 56 | 100.0 | 172 | 2 | US-09-359-382-12 | Sequence 12, Appl |
| 11 | 56 | 100.0 | 182 | 1 | US-08-117-083-10 | Sequence 10, Appl |
| 12 | 56 | 100.0 | 243 | 2 | US-09-462-993-1 | Sequence 1, Appli |
| 13 | 56 | 100.0 | 266 | 2 | US-08-860-165-10 | Sequence 10, Appl |
| 14 | 56 | 100.0 | 266 | 2 | US-09-359-382-10 | Sequence 10, Appl |
| 15 | 56 | 100.0 | 266 | 2 | US-09-367-309A-1 | Sequence 1, Appli |
| 16 | 56 | 100.0 | 273 | 2 | US-09-485-885-4 | Sequence 4, Appli |
| 17 | 56 | 100.0 | 292 | 2 | US-09-485-885-10 | Sequence 10, Appl |
| 18 | 56 | 100.0 | 371 | 2 | US-09-485-885-6 | Sequence 6, Appli |
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| 20 | 39 | 69.6 | 340 | 2 | US-10-155-947-2 | Sequence 2, Appli |
| 21 | 39 | 69.6 | 340 | 2 | US-10-155-947-5 | Sequence 5, Appli |
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| 28 | 36 | 64.3 | 211 | 2 | US-09-105-567A-7 | Sequence 7, Appli |
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| 39 | 35 | 62.5 | 165 | 2 | US-09-252-991A-24061 | Sequence 24061, A |
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| 42 | 35 | 62.5 | 383 | 2 | US-09-107-532A-5773 | Sequence 5773, Ap |
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| 53 | 34 | 60.7 | 240 | 2 | US-09-489-039A-8113 | Sequence 8113, Ap |
| 54 | 34 | 60.7 | 316 | 2 | US-09-252-991A-21365 | Sequence 21365, A |
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| 56 | 34 | 60.7 | 369 | 2 | US-09-902-540-10925 | Sequence 10925, A |
| 57 | 34 | 60.7 | 393 | 2 | US-09-303-518D-876 | Sequence 876, App |
| 58 | 34 | 60.7 | 415 | 2 | US-09-252-991A-26667 | Sequence 26667, A |
| 59 | 34 | 60.7 | 485 | 2 | US-09-438-185A-43 | Sequence 43, Appl |
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| 61 | 34 | 60.7 | 557 | 2 | US-09-538-092-278 | Sequence 278, App |
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| 63 | 34 | 60.7 | 871 | 2 | US-09-303-518D-880 | Sequence 880, App |
| 64 | 34 | 60.7 | 888 | 2 | US-09-303-518D-878 | Sequence 878, App |
| 65 | 34 | 60.7 | 922 | 2 | US-09-303-518D-882 | Sequence 882, App |
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| 67 | 34 | 60.7 | 947 | 2 | US-09-719-190-2 | Sequence 2, Appli |
| 68 | 34 | 60.7 | 1455 | 2 | US-08-840-062-5 | Sequence 5, Appli |
| 69 | 33.5 | 59.8 | 153 | 2 | US-09-771-161A-168 | Sequence 168, App |
| 70 | 33 | 58.9 | 16 | 1 | US-08-077-797A-2 | Sequence 2, Appli |
| 71 | 33 | 58.9 | 16 | 2 | US-09-546-013-31 | Sequence 31, Appl |
| 72 | 33 | 58.9 | 16 | 4 | PCT-US94-01238-2 | Sequence 2, Appli |
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| 74 | 33 | 58.9 | 56 | 4 | PCT-US93-08528-250 | Sequence 250, App |
| 75 | 33 | 58.9 | 138 | 2 | US-08-981-601-19 | Sequence 19, Appl |
| 76 | 33 | 58.9 | 189 | 1 | US-08-531-525-27 | Sequence 27, Appl |
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| 80 | 33 | 58.9 | 192 | 2 | US-09-370-950C-5 | Sequence 5, Appli |
| 81 | 33 | 58.9 | 192 | 2 | US-10-418-036-25 | Sequence 25, Appl |
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| 88 | 33 | 58.9 | 267 | 2 | US-09-949-016-11163 | Sequence 11163, A |
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| 92 | 33 | 58.9 | 292 | 2 | US-09-710-262E-5 | Sequence 5, Appli |
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| 129 | 32 | 57.1 | 350 | 2 | US-09-651-200-25 | Sequence 25, Appl |
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| 161 | 31 | 55.4 | 23 | 2 | US-09-270-767-34404 | Sequence 34404, A |
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| 164 | 31 | 55.4 | 68 | 2 | US-09-543-681A-4529 | Sequence 4529, Ap |
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| 166 | 31 | 55.4 | 81 | 2 | US-09-270-767-59565 | Sequence 59565, A |
| 167 | 31 | 55.4 | 93 | 2 | US-09-270-767-61212 | Sequence 61212, A |
| 168 | 31 | 55.4 | 96 | 2 | US-09-270-767-45690 | Sequence 45690, A |
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| 170 | 31 | 55.4 | 100 | 2 | US-09-270-767-47136 | Sequence 47136, A |
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| 178 | 31 | 55.4 | 228 | 2 | US-09-252-991A-26973 | Sequence 26973, A |
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| 198 | 31 | 55.4 | 370 | 2 | US-09-540-224-2 | Sequence 2, Appli |
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| 709 | 28 | 50.0 | 41 | 2 | US-09-079-723-169 | Sequence 169, App |
| 710 | 28 | 50.0 | 47 | 2 | US-09-205-258-510 | Sequence 510, App |
| 711 | 28 | 50.0 | 47 | 2 | US-09-205-258-516 | Sequence 516, App |
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| 807 | 28 | 50.0 | 191 | 2 | US-09-538-092-975 | Sequence 975, App |
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| 960 | 28 | 50.0 | 481 | 2 | US-09-215-694-17 | Sequence 17, Appl |
| 961 | 28 | 50.0 | 481 | 2 | US-10-109-310-17 | Sequence 17, Appl |
| 962 | 28 | 50.0 | 482 | 2 | US-09-252-991A-21327 | Sequence 21327, A |
| 963 | 28 | 50.0 | 482 | 2 | US-09-252-991A-29869 | Sequence 29869, A |
| 964 | 28 | 50.0 | 483 | 2 | US-08-431-517F-13 | Sequence 13, Appl |
| 965 | 28 | 50.0 | 486 | 1 | US-08-821-355A-8 | Sequence 8, Appli |
| 966 | 28 | 50.0 | 486 | 1 | US-09-003-687A-8 | Sequence 8, Appli |
| 967 | 28 | 50.0 | 486 | 2 | US-09-136-605-8 | Sequence 8, Appli |
| 968 | 28 | 50.0 | 489 | 2 | US-09-991-181-138 | Sequence 138, App |
| 969 | 28 | 50.0 | 489 | 2 | US-09-990-444-138 | Sequence 138, App |
| 970 | 28 | 50.0 | 489 | 2 | US-09-997-333-138 | Sequence 138, App |
| 971 | 28 | 50.0 | 489 | 2 | US-09-992-598-138 | Sequence 138, App |
| 972 | 28 | 50.0 | 494 | 2 | US-08-984-618-3 | Sequence 3, Appli |
| 973 | 28 | 50.0 | 496 | 2 | US-09-489-039A-12798 | Sequence 12798, A |
| 974 | 28 | 50.0 | 499 | 2 | US-09-540-236-3217 | Sequence 3217, Ap |
| 975 | 28 | 50.0 | 504 | 2 | US-09-902-540-15307 | Sequence 15307, A |
| 976 | 28 | 50.0 | 507 | 2 | US-09-489-039A-10615 | Sequence 10615, A |

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| 977 | 28 | 50.0 | 508 | 2 | US-09-252-991A-24250 | Sequence 24250, A |
| 978 | 28 | 50.0 | 508 | 2 | US-09-489-039A-13575 | Sequence 13575, A |
| 979 | 28 | 50.0 | 514 | 2 | US-09-670-216-29 | Sequence 29, Appl |
| 980 | 28 | 50.0 | 515 | 2 | US-09-328-352-5090 | Sequence 5090, Ap |
| 981 | 28 | 50.0 | 516 | 2 | US-09-248-796A-17166 | Sequence 17166, A |
| 982 | 28 | 50.0 | 520 | 2 | US-09-051-961-2 | Sequence 2, Appli |
| 983 | 28 | 50.0 | 520 | 2 | US-09-670-216-30 | Sequence 30, Appl |
| 984 | 28 | 50.0 | 520 | 2 | US-09-538-092-1361 | Sequence 1361, Ap |
| 985 | 28 | 50.0 | 520 | 2 | US-09-949-016-6518 | Sequence 6518, Ap |
| 986 | 28 | 50.0 | 524 | 2 | US-09-424-283-1 | Sequence 1, Appli |
| 987 | 28 | 50.0 | 530 | 2 | US-09-248-796A-15021 | Sequence 15021, A |
| 988 | 28 | 50.0 | 530 | 2 | US-09-966-997-13 | Sequence 13, Appl |
| 989 | 28 | 50.0 | 541 | 2 | US-09-205-658-154 | Sequence 154, App |
| 990 | 28 | 50.0 | 544 | 2 | US-09-362-831-6 | Sequence 6, Appli |
| 991 | 28 | 50.0 | 546 | 2 | US-09-205-658-155 | Sequence 155, App |
| 992 | 28 | 50.0 | 548 | 2 | US-09-227-421-5 | Sequence 5, Appli |
| 993 | 28 | 50.0 | 548 | 2 | US-09-479-855-5 | Sequence 5, Appli |
| 994 | 28 | 50.0 | 552 | 2 | US-09-949-016-8005 | Sequence 8005, Ap |
| 995 | 28 | 50.0 | 555 | 2 | US-09-227-421-2 | Sequence 2, Appli |
| 996 | 28 | 50.0 | 555 | 2 | US-09-479-855-2 | Sequence 2, Appli |
| 997 | 28 | 50.0 | 564 | 2 | US-09-328-352-7905 | Sequence 7905, Ap |
| 998 | 28 | 50.0 | 575 | 2 | US-09-252-991A-20649 | Sequence 20649, A |
| 999 | 28 | 50.0 | 580 | 2 | US-09-949-016-10834 | Sequence 10834, A |
| 1000 | 28 | 50.0 | 589 | 2 | US-08-976-063E-30 | Sequence 30, Appl |

ALIGNMENTS

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RESULT 1
US-08-159-339A-245
; Sequence 245, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  245:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-245

  Query Match             100.0%;  Score 56;  DB 2;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 4.6e+05;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db          1 RFHNIRGRW 9


RESULT 2
US-09-601-729-278
; Sequence 278, Application US/09601729
; Patent No. 6683052
; GENERAL INFORMATION:
;  APPLICANT: THIAM, KADER
;  APPLICANT:  AURIAULT, CLAUDE
;  APPLICANT:  GRAS-MASSE, HELENE
;  APPLICANT:  LOING, ESTELLE
;  APPLICANT:  VERWAERDE, CLAUDIE
;  APPLICANT:  GUILLET, JEAN GERARD
;  TITLE OF INVENTION: LIPOPEPTIDES CONTAINING AN INTERFERON FRAGMENT AND USES
;  TITLE OF INVENTION:  THEREOF IN PHARMACEUTICAL COMPOSITIONS
;  FILE REFERENCE: USB-97-AU-IN
;  CURRENT APPLICATION NUMBER: US/09/601,729
;  CURRENT FILING DATE:  2000-11-20
;  PRIOR APPLICATION NUMBER: PCT/FR99/00259
;  PRIOR FILING DATE: 1999-02-05
;  PRIOR APPLICATION NUMBER: 98 01439
;  PRIOR FILING DATE: 1998-02-06
;  NUMBER OF SEQ ID NOS: 281
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 278
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;   OTHER INFORMATION: peptide
US-09-601-729-278

  Query Match             100.0%;  Score 56;  DB 2;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.0015;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db         11 RFHNIRGRW 19


RESULT 3
US-08-934-915-166
; Sequence 166, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
```

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;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  166:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  21 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-166

  Query Match             100.0%;  Score 56;  DB 1;  Length 21;
  Best Local Similarity   100.0%;  Pred. No. 0.0016;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db         10 RFHNIRGRW 18


RESULT 4
US-09-980-523A-10
; Sequence 10, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
;   LENGTH: 22
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-10

  Query Match             100.0%;  Score 56;  DB 2;  Length 22;
  Best Local Similarity   100.0%;  Pred. No. 0.0016;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db         14 RFHNIRGRW 22


RESULT 5
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
;  APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
;  TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 F
;  TITLE OF INVENTION:  TRANSCRIPTIONAL REGULATION
;  FILE REFERENCE: N73477C GCW
;  CURRENT APPLICATION NUMBER: US/09/701,080C
;  CURRENT FILING DATE:  2001-02-27
;  PRIOR APPLICATION NUMBER: GB 9811303.8
;  PRIOR FILING DATE: 1998-05-26
;  PRIOR APPLICATION NUMBER: GB 9900157.0
;  PRIOR FILING DATE: 1999-01-05
;  NUMBER OF SEQ ID NOS: 36
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-09-701-080C-18

  Query Match             100.0%;  Score 56;  DB 2;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 0.012;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        124 RFHNIRGRW 132


RESULT 6
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-2

  Query Match             100.0%;  Score 56;  DB 2;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.012;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        131 RFHNIRGRW 139
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RESULT 7
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-3

  Query Match             100.0%;  Score 56;  DB 1;  Length 162;
  Best Local Similarity   100.0%;  Pred. No. 0.013;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        131 RFHNIRGRW 139


RESULT 8
US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
;  GENERAL INFORMATION:
;    APPLICANT:  Wheeler, Cosette M.
;    APPLICANT:  Parmenter, Cheryl A.
;    TITLE OF INVENTION:  Methods and a Diagnostic Aid for
;    TITLE OF INVENTION:  Distinguishing a Subset of HPV that is Associated with an
;    TITLE OF INVENTION:  Increased Risk of Developing Cervical Dysplasia and
;    TITLE OF INVENTION:  Cervical Cancer
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jagtiani & Associates
;      STREET:  6126 Rocky Way Court
;      CITY:  Centreville
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  20120-3400
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/316,239B
;      FILING DATE:  30-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jagtiani, Ajay A.
;      REGISTRATION NUMBER:  35,205
;      REFERENCE/DOCKET NUMBER:  UNME-0001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 817-9453
;      TELEFAX:  (703) 803-9387
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  162 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-316-239B-4

  Query Match             100.0%;  Score 56;  DB 1;  Length 162;
  Best Local Similarity   100.0%;  Pred. No. 0.013;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        131 RFHNIRGRW 139


RESULT 9
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

  Query Match             100.0%;  Score 56;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.014;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db         69 RFHNIRGRW 77


RESULT 10
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US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-12

  Query Match             100.0%;  Score 56;  DB 2;  Length 172;
  Best Local Similarity   100.0%;  Pred. No. 0.014;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db         69 RFHNIRGRW 77


RESULT 11
US-08-117-083-10
; Sequence 10, Application US/08117083
; Patent No. 5719054
;  GENERAL INFORMATION:
;    APPLICANT:  Boursnell, Michael E.
;    APPLICANT:  Inglis, Stephen C.
;    APPLICANT:  Munro, Alan J.
;    TITLE OF INVENTION:  Recombinant Virus Vectors Encoding Human
;    TITLE OF INVENTION:  Papilloma Virus Proteins
;    NUMBER OF SEQUENCES:  70
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Walter H. Dreger
;      STREET:  4 Embarcadero Center, Suite 3400
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/117,083
;      FILING DATE:  10-SEP-1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Dreger, Walter H.
;      REGISTRATION NUMBER:  24,190
;      REFERENCE/DOCKET NUMBER:  A-58783
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-781-1989
;      TELEFAX:  415-398-3249
;      TELEX:  910 277299
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  182 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    FEATURE:
;      NAME/KEY:  Protein
;      LOCATION:  1..182
;      OTHER INFORMATION:  /note= "Xaa refers to stop codon in
;      OTHER INFORMATION:  the open reading frame."
US-08-117-083-10

  Query Match             100.0%;  Score 56;  DB 1;  Length 182;
  Best Local Similarity   100.0%;  Pred. No. 0.014;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db         92 RFHNIRGRW 100


RESULT 12
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
;  APPLICANT:  KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION:  ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE:  017753-122
;  CURRENT APPLICATION NUMBER: US/09/462,993
;  CURRENT FILING DATE:  2000-04-17
;  PRIOR APPLICATION NUMBER:  PCT/FR98/01576
;  PRIOR FILING DATE:  1998-07-17
;  PRIOR APPLICATION NUMBER:  FR 97/09152
;  PRIOR FILING DATE:  1997-07-18
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

  Query Match             100.0%;  Score 56;  DB 2;  Length 243;
  Best Local Similarity   100.0%;  Pred. No. 0.019;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        154 RFHNIRGRW 162


RESULT 13
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
```

; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

Query Match 100.0%; Score 56; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.021;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RFHNIRGRW 9
||||||||||
Db 131 RFHNIRGRW 139

RESULT 14
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match 100.0%; Score 56; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.021;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RFHNIRGRW 9
||||||||||
Db 131 RFHNIRGRW 139

RESULT 15
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 56; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.021;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RFHNIRGRW 9
||||||||||
Db 131 RFHNIRGRW 139

RESULT 16
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-4

Query Match 100.0%; Score 56; DB 2; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.022;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RFHNIRGRW 9
||||||||||
Db 237 RFHNIRGRW 245

RESULT 17
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292

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;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-10

  Query Match             100.0%;  Score 56;  DB 2;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.024;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        256 RFHNIRGRW 264


RESULT 18
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 6
;   LENGTH: 371
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-6

  Query Match             100.0%;  Score 56;  DB 2;  Length 371;
  Best Local Similarity   100.0%;  Pred. No. 0.03;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        237 RFHNIRGRW 245


RESULT 19
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 14
;   LENGTH: 390
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-14

  Query Match             100.0%;  Score 56;  DB 2;  Length 390;
  Best Local Similarity   100.0%;  Pred. No. 0.032;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        256 RFHNIRGRW 264


RESULT 20
US-10-155-947-2
; Sequence 2, Application US/10155947
; Patent No. 6899880
; GENERAL INFORMATION:
;  APPLICANT: Stephens, Richard S.
;  APPLICANT:  Kubo, Aya
;  TITLE OF INVENTION: PorinB (PorB) as a Therapeutic Target
;  TITLE OF INVENTION:  for Prevention and Treatment of Infection by  Chlamydia
;  FILE REFERENCE: BERK-006
;  CURRENT APPLICATION NUMBER: US/10/155,947
;  CURRENT FILING DATE:  2002-05-24
;  PRIOR APPLICATION NUMBER: US/09/775,195
;  PRIOR FILING DATE: 2001-01-31
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 340
;   TYPE: PRT
;   ORGANISM: C. trachomatis
US-10-155-947-2

  Query Match             69.6%;  Score 39;  DB 2;  Length 340;
  Best Local Similarity   62.5%;  Pred. No. 31;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 FHNIRGRW 9
              |:|: |||
Db        319 FYNVEGRW 326


RESULT 21
US-10-155-947-5
; Sequence 5, Application US/10155947
; Patent No. 6899880
; GENERAL INFORMATION:
;  APPLICANT: Stephens, Richard S.
;  APPLICANT:  Kubo, Aya
;  TITLE OF INVENTION: PorinB (PorB) as a Therapeutic Target
;  TITLE OF INVENTION:  for Prevention and Treatment of Infection by  Chlamydia
;  FILE REFERENCE: BERK-006
;  CURRENT APPLICATION NUMBER: US/10/155,947
;  CURRENT FILING DATE:  2002-05-24
;  PRIOR APPLICATION NUMBER: US/09/775,195
;  PRIOR FILING DATE: 2001-01-31
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
;   LENGTH: 340
;   TYPE: PRT
;   ORGANISM: C. trachomatis (L2)
US-10-155-947-5

  Query Match             69.6%;  Score 39;  DB 2;  Length 340;
  Best Local Similarity   62.5%;  Pred. No. 31;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 FHNIRGRW 9
              |:|: |||
Db        319 FYNVEGRW 326


RESULT 22
```

```
US-10-155-947-6
; Sequence 6, Application US/10155947
; Patent No. 6899880
; GENERAL INFORMATION:
;  APPLICANT: Stephens, Richard S.
;  APPLICANT:  Kubo, Aya
;  TITLE OF INVENTION: PorinB (PorB) as a Therapeutic Target
;  TITLE OF INVENTION:  for Prevention and Treatment of Infection by  Chlamydia
;  FILE REFERENCE: BERK-006
;  CURRENT APPLICATION NUMBER: US/10/155,947
;  CURRENT FILING DATE:  2002-05-24
;  PRIOR APPLICATION NUMBER: US/09/775,195
;  PRIOR FILING DATE: 2001-01-31
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
;   LENGTH: 340
;   TYPE: PRT
;   ORGANISM: C. trachomatis (C)
US-10-155-947-6

  Query Match             69.6%;  Score 39;  DB 2;  Length 340;
  Best Local Similarity   62.5%;  Pred. No. 31;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 FHNIRGRW 9
              |:|: |||
Db        319 FYNVEGRW 326


RESULT 23
US-09-270-767-44358
; Sequence 44358, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 44358
;   LENGTH: 203
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
;   FEATURE:
;   OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-44358

  Query Match             66.1%;  Score 37;  DB 2;  Length 203;
  Best Local Similarity   66.7%;  Pred. No. 41;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              | ||:| ||
Db         72 RSHNMRPRW 80


RESULT 24
US-09-758-759-69
; Sequence 69, Application US/09758759
; Patent No. 6861513
; GENERAL INFORMATION:
;  APPLICANT: Hosted, Thomas J.
;  APPLICANT:  Wang, Tim X.
;  APPLICANT:  Horan, Ann C.
;  TITLE OF INVENTION: Everninomicin Biosynthetic Genes
;  FILE REFERENCE: ID0983K US
;  CURRENT APPLICATION NUMBER: US/09/758,759
;  CURRENT FILING DATE:  2001-01-11
;  PRIOR APPLICATION NUMBER: US 60/175,751
;  PRIOR FILING DATE: 2000-01-12
;  NUMBER OF SEQ ID NOS: 204
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 69
;   LENGTH: 342
;   TYPE: PRT
;   ORGANISM: Micromonospora carbonacea
;   FEATURE:
;   OTHER INFORMATION: evrV
US-09-758-759-69

  Query Match             66.1%;  Score 37;  DB 2;  Length 342;
  Best Local Similarity   55.6%;  Pred. No. 70;
  Matches    5;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              | ||: | |
Db        167 RMHNVYGEW 175


RESULT 25
US-09-489-039A-9554
; Sequence 9554, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
;  APPLICANT:  Gary Breton et. al
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
;  TITLE OF INVENTION:  PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  2709.2004001
;  CURRENT APPLICATION NUMBER: US/09/489,039A
;  CURRENT FILING DATE:  2000-01-27
;  PRIOR APPLICATION NUMBER:  US 60/117,747
;  PRIOR FILING DATE:  1999-01-29
;  NUMBER OF SEQ ID NOS:  14342
; SEQ ID NO 9554
;   LENGTH: 85
;   TYPE: PRT
;   ORGANISM: Klebsiella pneumoniae
US-09-489-039A-9554

  Query Match             64.3%;  Score 36;  DB 2;  Length 85;
  Best Local Similarity   66.7%;  Pred. No. 25;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              | |:|| ||
Db         18 RVHHIRWRW 26


RESULT 26
US-08-247-904B-10
; Sequence 10, Application US/08247904B
; Patent No. 5981699
;  GENERAL INFORMATION:
;    APPLICANT:  Rolfe, Mark
;    APPLICANT:  Eckstein, Jens W.
;    APPLICANT:  Draetta, Giulio
;    TITLE OF INVENTION:  Human Ubiquitin Conjugating Enzyme
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Foley, Hoag & Eliot
;      STREET:  One Post Office Square
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  ASCII(text)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/247,904B
;      FILING DATE:  23-MAY-1994
```

```
;      CLASSIFICATION:  530
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Vincent, Matthew P.
;      REGISTRATION NUMBER:  36,709
;      REFERENCE/DOCKET NUMBER:  MIV-029.01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 832-1000
;      TELEFAX:  (617) 832-7000
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  158 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-247-904B-10

  Query Match             64.3%;  Score 36;  DB 1;  Length 158;
  Best Local Similarity   66.7%;  Pred. No. 48;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              ||||| | :
Db        126 RFHNIAGHY 134


RESULT 27
US-08-767-942A-19
; Sequence 19, Application US/08767942A
; Patent No. 6068982
;  GENERAL INFORMATION:
;    APPLICANT:  Rolfe, Mark
;    APPLICANT:  Chiu, M. Isabel
;    APPLICANT:  Berlin, Vivian
;    APPLICANT:  Damagnez, Veronique
;    APPLICANT:  Draetta, Giulio
;    APPLICANT:  Guillaume, Cottarel
;    TITLE OF INVENTION:  UBIQUITIN CONJUGATING ENZYMES
;    NUMBER OF SEQUENCES:  45
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  FOLEY, HOAG & ELIOT LLP
;      STREET:  One Post Office Square
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109-2170
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/767,942A
;      FILING DATE:  17-DEC-1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Vincent, Matthew P.
;      REGISTRATION NUMBER:  36,709
;      REFERENCE/DOCKET NUMBER:  MIV-029.04
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-832-1000
;      TELEFAX:  617-832-7000
;  INFORMATION FOR SEQ ID NO:  19:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  158 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-767-942A-19

  Query Match             64.3%;  Score 36;  DB 2;  Length 158;
  Best Local Similarity   66.7%;  Pred. No. 48;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              ||||| | :
Db        126 RFHNIAGHY 134


RESULT 28
US-09-105-567A-7
; Sequence 7, Application US/09105567A
; Patent No. 6083700
;  GENERAL INFORMATION:
;    APPLICANT:  Lal, Preeti
;    APPLICANT:  Guegler, Karl J.
;    APPLICANT:  Corley, Neil C.
;    APPLICANT:  Patterson, Chandra
;    TITLE OF INVENTION:  HUMAN GOOSE-TYPE LYSOZYME
;    NUMBER OF SEQUENCES:  7
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Incyte Pharmaceuticals, Inc.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  Windows
;      SOFTWARE:  Word Perfect 6.1 for Windows/MS-DOS 6.2
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/105,567A
;      FILING DATE:  HEREWITH
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Cerrone, Michael C
;      REGISTRATION NUMBER:  39,132
;      REFERENCE/DOCKET NUMBER:  PF-0549 US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  650-855-0555
;      TELEFAX:  650-855-0572
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  211 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      LIBRARY:  GenBank
;      CLONE:  GI 63428
US-09-105-567A-7

  Query Match             64.3%;  Score 36;  DB 2;  Length 211;
  Best Local Similarity   55.6%;  Pred. No. 65;
  Matches    5;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |:| | | |
Db        125 RYHKIEGTW 133


RESULT 29
US-09-511-720-7
; Sequence 7, Application US/09511720
; Patent No. 6268164
;  GENERAL INFORMATION:
;       APPLICANT: Lal, Preeti
;                  Guegler, Karl J.
;                  Corley, Neil C.
;                  Patterson, Chandra
;       TITLE OF INVENTION: HUMAN GOOSE-TYPE LYSOZYME
;       NUMBER OF SEQUENCES: 7
```

```
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: Incyte Pharmaceuticals, Inc.
;            STREET: 3174 Porter Drive
;            CITY: Palo Alto
;            STATE: CA
;            COUNTRY: USA
;            ZIP: 94304
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Diskette
;            COMPUTER: IBM Compatible
;            OPERATING SYSTEM: Windows
;            SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/511,720
;            FILING DATE: 23-Feb-2000
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 09/105,567
;            FILING DATE: <Unknown>
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Cerrone, Michael C
;            REGISTRATION NUMBER: 39,132
;            REFERENCE/DOCKET NUMBER: PF-0549 US
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: 650-855-0555
;            TELEFAX: 650-855-0572
;            TELEX: <Unknown>
;   INFORMATION FOR SEQ ID NO: 7:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 211 amino acids
;            TYPE: amino acid
;            STRANDEDNESS: single
;            TOPOLOGY: linear
;       IMMEDIATE SOURCE:
;            LIBRARY: GenBank
;            CLONE: GI 63428
;       SEQUENCE DESCRIPTION: SEQ ID NO: 7 :
US-09-511-720-7

  Query Match             64.3%;  Score 36;  DB 2;  Length 211;
  Best Local Similarity   55.6%;  Pred. No. 65;
  Matches    5;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |:| | | |
Db        125 RYHKIEGTW 133


RESULT 30
US-09-844-036A-7
; Sequence 7, Application US/09844036A
; Patent No. 6660485
;   GENERAL INFORMATION:
;       APPLICANT: Lal, Preeti
;                  Guegler, Karl J.
;                  Corley, Neil C.
;                  Patterson, Chandra
;       TITLE OF INVENTION: HUMAN GOOSE-TYPE LYSOZYME
;       NUMBER OF SEQUENCES: 7
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: Incyte Pharmaceuticals, Inc.
;            STREET: 3174 Porter Drive
;            CITY: Palo Alto
;            STATE: CA
;            COUNTRY: USA
;            ZIP: 94304
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Diskette
;            COMPUTER: IBM Compatible
;            OPERATING SYSTEM: Windows
;            SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/844,036A
;            FILING DATE: 26-Apr-2001
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 09/511,720
;            FILING DATE: 2000-02-23
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Cerrone, Michael C
;            REGISTRATION NUMBER: 39,132
;            REFERENCE/DOCKET NUMBER: PF-0549 US
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: 650-855-0555
;            TELEFAX: 650-855-0572
;            TELEX: <Unknown>
;   INFORMATION FOR SEQ ID NO: 7:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 211 amino acids
;            TYPE: amino acid
;            STRANDEDNESS: single
;            TOPOLOGY: linear
;       IMMEDIATE SOURCE:
;            LIBRARY: GenBank
;            CLONE: GI 63428
;       SEQUENCE DESCRIPTION: SEQ ID NO: 7 :
US-09-844-036A-7

  Query Match             64.3%;  Score 36;  DB 2;  Length 211;
  Best Local Similarity   55.6%;  Pred. No. 65;
  Matches    5;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |:| | | |
Db        125 RYHKIEGTW 133


RESULT 31
US-08-117-083-14
; Sequence 14, Application US/08117083
; Patent No. 5719054
;  GENERAL INFORMATION:
;    APPLICANT:  Boursnell, Michael E.
;    APPLICANT:  Inglis, Stephen C.
;    APPLICANT:  Munro, Alan J.
;    TITLE OF INVENTION:  Recombinant Virus Vectors Encoding Human
;    TITLE OF INVENTION:  Papilloma Virus Proteins
;    NUMBER OF SEQUENCES:  70
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Walter H. Dreger
;      STREET:  4 Embarcadero Center, Suite 3400
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/117,083
;      FILING DATE:  10-SEP-1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Dreger, Walter H.
;      REGISTRATION NUMBER:  24,190
;      REFERENCE/DOCKET NUMBER:  A-58783
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-781-1989
;      TELEFAX:  415-398-3249
;      TELEX:  910 277299
;  INFORMATION FOR SEQ ID NO:  14:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  271 amino acids
;      TYPE:  amino acid
```

```
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    FEATURE:
;      NAME/KEY:  Protein
;      LOCATION:  1..271
;      OTHER INFORMATION:  /note= "Xaa refers to stop codon in
;      OTHER INFORMATION:  the open reading frame."
US-08-117-083-14

  Query Match             64.3%;  Score 36;  DB 1;  Length 271;
  Best Local Similarity   66.7%;  Pred. No. 84;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              ||||| | :
Db        127 RFHNIAGHY 135


RESULT 32
US-09-485-885-21
; Sequence 21, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 21
;   LENGTH: 278
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-21

  Query Match             64.3%;  Score 36;  DB 2;  Length 278;
  Best Local Similarity   66.7%;  Pred. No. 86;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              ||||| | :
Db        237 RFHNIAGHY 245


RESULT 33
US-09-485-885-23
; Sequence 23, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
;  APPLICANT:  Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION:  Vaccine
;  FILE REFERENCE:  B45107
;  CURRENT APPLICATION NUMBER: US/09/485,885
;  CURRENT FILING DATE:  2000-02-18
;  PRIOR APPLICATION NUMBER:  PCT/EP98/05285
;  PRIOR FILING DATE:  1998-08-17
;  PRIOR APPLICATION NUMBER:  GB 9717953.5
;  PRIOR FILING DATE:  1997-08-22
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 23
;   LENGTH: 383
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-485-885-23

  Query Match             64.3%;  Score 36;  DB 2;  Length 383;
  Best Local Similarity   66.7%;  Pred. No. 1.2e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              ||||| | :
Db        237 RFHNIAGHY 245


RESULT 34
US-10-158-742A-14
; Sequence 14, Application US/10158742A
; Patent No. 6858410
; GENERAL INFORMATION:
;  APPLICANT: Hoess, Eva
;  APPLICANT:  Meier, Thomas
;  APPLICANT:  Pestlin, Gabriele
;  APPLICANT:  Popp, Friedrich
;  APPLICANT:  Reichert, Klaus
;  APPLICANT:  Schmuck, Rainer
;  APPLICANT:  Schneidinger, Bernd
;  APPLICANT:  Seidel, Christoph
;  APPLICANT:  Tischer, Wilhelm
;  TITLE OF INVENTION: PROCESS FOR MAKING ANTIFUSOGENIC FUSION PEPTIDES THAT FORM
;  TITLE OF INVENTION:  INCLUSION ANTIBODIES
;  FILE REFERENCE: 20904
;  CURRENT APPLICATION NUMBER: US/10/158,742A
;  CURRENT FILING DATE:  2002-05-30
;  PRIOR APPLICATION NUMBER: EP 01114497.9
;  PRIOR FILING DATE: 2001-06-15
;  NUMBER OF SEQ ID NOS: 20
;  SOFTWARE:
; SEQ ID NO 14
;   LENGTH: 51
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:peptide
;   OTHER INFORMATION: M-HHHHHH-IEGR-T1357-G
US-10-158-742A-14

  Query Match             62.5%;  Score 35;  DB 2;  Length 51;
  Best Local Similarity   71.4%;  Pred. No. 22;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 HNIRGRW 9
              |:| |||
Db          6 HHIEGRW 12


RESULT 35
US-09-107-532A-4549
; Sequence 4549, Application US/09107532A
; Patent No. 6583275
;   GENERAL INFORMATION:
;        APPLICANT: Lynn A Doucette-Stamm  and David Bush
;        TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;                            ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
;        NUMBER OF SEQUENCES: 7310
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;             STREET: 100 Beaver Street
;             CITY: Waltham
;             STATE: Massachusetts
;             COUNTRY: USA
;             ZIP: 02354
```

```
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: CD/ROM ISO9660
;            COMPUTER: PC
;            OPERATING SYSTEM: <Unknown>
;            SOFTWARE: ASCII
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/107,532A
;            FILING DATE: 30-Jun-1998
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 60/085,598
;            FILING DATE: 14 May 1998
;            APPLICATION NUMBER: 60/051571
;            FILING DATE: July 2, 1997
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Ariniello, Pamela Deneke
;            REGISTRATION NUMBER: 40,489
;            REFERENCE/DOCKET NUMBER: GTC-012
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (781)893-5007
;            TELEFAX: (781)893-8277
;   INFORMATION FOR SEQ ID NO: 4549:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 65 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       HYPOTHETICAL: YES
;       ORIGINAL SOURCE:
;            ORGANISM: Enterococcus faecium
;       FEATURE:
;            NAME/KEY:  misc_feature
;            LOCATION: (B) LOCATION 1...65
;       SEQUENCE DESCRIPTION: SEQ ID NO: 4549:
US-09-107-532A-4549

  Query Match             62.5%;  Score 35;  DB 2;  Length 65;
  Best Local Similarity   62.5%;  Pred. No. 29;
  Matches    5;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 FHNIRGRW 9
              || : |||
Db          3 FHRLIGRW 10


RESULT 36
US-09-489-039A-13486
; Sequence 13486, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
;  APPLICANT:  Gary Breton et. al
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
;  TITLE OF INVENTION:  PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  2709.2004001
;  CURRENT APPLICATION NUMBER: US/09/489,039A
;  CURRENT FILING DATE:  2000-01-27
;  PRIOR APPLICATION NUMBER:  US 60/117,747
;  PRIOR FILING DATE:  1999-01-29
;  NUMBER OF SEQ ID NOS:  14342
; SEQ ID NO 13486
;   LENGTH: 105
;   TYPE: PRT
;   ORGANISM: Klebsiella pneumoniae
US-09-489-039A-13486

  Query Match             62.5%;  Score 35;  DB 2;  Length 105;
  Best Local Similarity   55.6%;  Pred. No. 47;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |: |:| ||
Db         57 RYRNLRRRW 65


RESULT 37
US-09-732-210-1457
; Sequence 1457, Application US/09732210
; Patent No. 6573361
; GENERAL INFORMATION:
;  APPLICANT: Bunkers, Greg J.
;  APPLICANT:  Liang, Jihong
;  APPLICANT:  Mittanck, Cindy A.
;  APPLICANT:  Seale, Jeffrey W.
;  APPLICANT:  Wu, Yonnie S.
;  TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
;  FILE REFERENCE: 38-21(15036)B
;  CURRENT APPLICATION NUMBER: US/09/732,210
;  CURRENT FILING DATE:  2000-12-07
;  PRIOR APPLICATION NUMBER: US 60/169,513
;  PRIOR FILING DATE: 1999-12-07
;  PRIOR APPLICATION NUMBER: US 60/169,340
;  PRIOR FILING DATE: 1999-12-07
;  NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 1457
;   LENGTH: 130
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-732-210-1457

  Query Match             62.5%;  Score 35;  DB 2;  Length 130;
  Best Local Similarity   100.0%;  Pred. No. 59;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 FHNIRG 7
              ||||||
Db        110 FHNIRG 115


RESULT 38
US-09-252-991A-19603
; Sequence 19603, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 19603
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-19603

  Query Match             62.5%;  Score 35;  DB 2;  Length 149;
  Best Local Similarity   66.7%;  Pred. No. 68;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              | |: ||||
Db         53 RGHHRRGRW 61


RESULT 39
US-09-252-991A-24061
; Sequence 24061, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
```

```
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 24061
;   LENGTH: 165
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24061

  Query Match             62.5%;  Score 35;  DB 2;  Length 165;
  Best Local Similarity   62.5%;  Pred. No. 76;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 FHNIRGRW 9
              ||::| ||
Db         24 FHSLRVRW 31


RESULT 40
US-09-489-039A-9244
; Sequence 9244, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
;  APPLICANT:  Gary Breton et. al
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
;  TITLE OF INVENTION:  PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  2709.2004001
;  CURRENT APPLICATION NUMBER: US/09/489,039A
;  CURRENT FILING DATE:  2000-01-27
;  PRIOR APPLICATION NUMBER:  US 60/117,747
;  PRIOR FILING DATE:  1999-01-29
;  NUMBER OF SEQ ID NOS:  14342
; SEQ ID NO 9244
;   LENGTH: 193
;   TYPE: PRT
;   ORGANISM: Klebsiella pneumoniae
US-09-489-039A-9244

  Query Match             62.5%;  Score 35;  DB 2;  Length 193;
  Best Local Similarity   50.0%;  Pred. No. 89;
  Matches    4;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 FHNIRGRW 9
              :||:|  |
Db        184 YHNLRNEW 191


RESULT 41
US-09-252-991A-19156
; Sequence 19156, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 19156
;   LENGTH: 215
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-19156

  Query Match             62.5%;  Score 35;  DB 2;  Length 215;
  Best Local Similarity   55.6%;  Pred. No. 99;
  Matches    5;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              | | :|| |
Db         83 RHHRLRGSW 91


RESULT 42
US-09-107-532A-5773
; Sequence 5773, Application US/09107532A
; Patent No. 6583275
;  GENERAL INFORMATION:
;       APPLICANT: Lynn A Doucette-Stamm  and David Bush
;       TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;                           ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
;       NUMBER OF SEQUENCES: 7310
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;            STREET: 100 Beaver Street
;            CITY: Waltham
;            STATE: Massachusetts
;            COUNTRY: USA
;            ZIP: 02354
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: CD/ROM ISO9660
;            COMPUTER: PC
;            OPERATING SYSTEM: <Unknown>
;            SOFTWARE: ASCII
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/107,532A
;            FILING DATE: 30-Jun-1998
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 60/085,598
;            FILING DATE: 14 May 1998
;            APPLICATION NUMBER: 60/051571
;            FILING DATE: July 2, 1997
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Ariniello, Pamela Deneke
;            REGISTRATION NUMBER: 40,489
;            REFERENCE/DOCKET NUMBER: GTC-012
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (781)893-5007
;            TELEFAX: (781)893-8277
;   INFORMATION FOR SEQ ID NO: 5773:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 383 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       HYPOTHETICAL: YES
;       ORIGINAL SOURCE:
;            ORGANISM: Enterococcus faecium
;       FEATURE:
;            NAME/KEY:  misc_feature
;            LOCATION: (B) LOCATION 1...383
;       SEQUENCE DESCRIPTION: SEQ ID NO: 5773:
US-09-107-532A-5773

  Query Match             62.5%;  Score 35;  DB 2;  Length 383;
  Best Local Similarity   55.6%;  Pred. No. 1.8e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              || |: |:|
Db        143 RFSNLYGKW 151


RESULT 43
US-09-489-039A-13161
; Sequence 13161, Application US/09489039A
```

```
; Patent No. 6610836
; GENERAL INFORMATION:
;  APPLICANT:  Gary Breton et. al
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
;  TITLE OF INVENTION:  PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  2709.2004001
;  CURRENT APPLICATION NUMBER: US/09/489,039A
;  CURRENT FILING DATE:  2000-01-27
;  PRIOR APPLICATION NUMBER:  US 60/117,747
;  PRIOR FILING DATE:  1999-01-29
;  NUMBER OF SEQ ID NOS:  14342
; SEQ ID NO 13161
;   LENGTH: 391
;   TYPE: PRT
;   ORGANISM: Klebsiella pneumoniae
US-09-489-039A-13161

  Query Match             62.5%;  Score 35;  DB 2;  Length 391;
  Best Local Similarity   55.6%;  Pred. No. 1.8e+02;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||::|  |
Db        316 RFHDLRHTW 324


RESULT 44
US-09-492-709A-259
; Sequence 259, Application US/09492709A
; Patent No. 6720139
; GENERAL INFORMATION:
;  APPLICANT: Zyskind, Judith
;  APPLICANT:  Ohlsen, Kari L.
;  APPLICANT:  Trawick, John
;  APPLICANT:  Forsyth, R. Allyn
;  APPLICANT:  Froelich, Jamie M.
;  APPLICANT:  Carr, Grant J.
;  APPLICANT:  Yamamoto, Robert T.
;  APPLICANT:  Xu, H. Howard
;  TITLE OF INVENTION: GENES IDENTIFIED AS REQUIRED FOR PROLIFERATION IN
;  TITLE OF INVENTION:  ESCHERICHIA COLI
;  FILE REFERENCE: ELITRA.001A
;  CURRENT APPLICATION NUMBER: US/09/492,709A
;  CURRENT FILING DATE:  2000-01-27
;  NUMBER OF SEQ ID NOS: 485
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 259
;   LENGTH: 511
;   TYPE: PRT
;   ORGANISM: E. Coli
US-09-492-709A-259

  Query Match             62.5%;  Score 35;  DB 2;  Length 511;
  Best Local Similarity   71.4%;  Pred. No. 2.4e+02;
  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 HNIRGRW 9
              ||:|| |
Db        367 HNLRGFW 373


RESULT 45
US-09-468-578-4
; Sequence 4, Application US/09468578
; Patent No. 6399329
; GENERAL INFORMATION:
;  APPLICANT:  Wang, Huaming
;  APPLICANT:  Bodie, Elizabeth A.
;  TITLE OF INVENTION:  Phenol Oxidizing Enzymes
;  FILE REFERENCE:  GC561-3
;  CURRENT APPLICATION NUMBER: US/09/468,578
;  CURRENT FILING DATE:  1999-12-21
;  PRIOR APPLICATION NUMBER:  US 09/220,871
;  PRIOR FILING DATE:  1998-12-23
;  PRIOR APPLICATION NUMBER:  US 09/338,723
;  PRIOR FILING DATE:  1999-06-23
;  NUMBER OF SEQ ID NOS:  17
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 4
;   LENGTH: 627
;   TYPE: PRT
;   ORGANISM: Bipolaris spicifera
US-09-468-578-4

  Query Match             62.5%;  Score 35;  DB 2;  Length 627;
  Best Local Similarity   55.6%;  Pred. No. 3e+02;
  Matches    5;  Conservative    0;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
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Db        409 RFHRTNGEW 417


RESULT 46
US-09-868-839-4
; Sequence 4, Application US/09868839
; Patent No. 6509307
; GENERAL INFORMATION:
;  APPLICANT: UNILEVER N.V. et al.
;  TITLE OF INVENTION: DETERGENT COMPOSITIONS COMPRISING PHENOL OXIDIZING
;  TITLE OF INVENTION:  ENZYMES
;  FILE REFERENCE: C7516(V)
;  CURRENT APPLICATION NUMBER: US/09/868,839
;  CURRENT FILING DATE:  2001-06-12
;  PRIOR APPLICATION NUMBER: US 09/220,871
;  PRIOR FILING DATE: 1998-12-23
;  PRIOR APPLICATION NUMBER: US 09/338,723
;  PRIOR FILING DATE: 1999-06-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
;   LENGTH: 627
;   TYPE: PRT
;   ORGANISM: Bipolaris spicifera
US-09-868-839-4

  Query Match             62.5%;  Score 35;  DB 2;  Length 627;
  Best Local Similarity   55.6%;  Pred. No. 3e+02;
  Matches    5;  Conservative    0;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||   | |
Db        409 RFHRTNGEW 417


RESULT 47
US-09-270-767-45252
; Sequence 45252, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 45252
;   LENGTH: 654
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
;   FEATURE:
;   OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-45252

  Query Match             62.5%;  Score 35;  DB 2;  Length 654;
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Qy          3 HNIRGRW 9
              :||:|||
Db         27 YNIQGRW 33


RESULT 48
US-07-909-122-5
; Sequence 5, Application US/07909122
; Patent No. 5415995
;  GENERAL INFORMATION:
;    APPLICANT:  SCHOOLNIK, GARY K.
;    APPLICANT:  PALEFSKY, JOEL M.
;    TITLE OF INVENTION:  DIAGNOSTIC PEPTIDES OF HUMAN PAPILLOMA
;    TITLE OF INVENTION:  VIRUS
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MORRISON & FOERSTER
;      STREET:  755 Page Mill Road
;      CITY:  Palo Alto
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94304-1018
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/909,122
;      FILING DATE:  19920706
;      CLASSIFICATION:  530
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  BENZ, WILLIAM H.
;      REGISTRATION NUMBER:  25,952
;      REFERENCE/DOCKET NUMBER:  28600-20105.01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 813-5600
;      TELEFAX:  (415) 494-0792
;      TELEX:  706141
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  10 amino acids
;      TYPE:  AMINO ACID
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
US-07-909-122-5

  Query Match             60.7%;  Score 34;  DB 1;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 6.3;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIR 6
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Db          5 RFHNIR 10


RESULT 49
US-09-252-991A-25775
; Sequence 25775, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 25775
;   LENGTH: 114
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-25775

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Qy          1 RFHNIRGRW 9
              |:  |||||
Db         58 RWSAIRGRW 66


RESULT 50
US-09-252-991A-26910
; Sequence 26910, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 26910
;   LENGTH: 181
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-26910

  Query Match             60.7%;  Score 34;  DB 2;  Length 181;
  Best Local Similarity   71.4%;  Pred. No. 1.3e+02;
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Qy          3 HNIRGRW 9
              |  ||||
Db         66 HRARGRW 72


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OM protein - protein search, using sw model

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Perfect score: 56
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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| 12 | 56 | 100.0 | 158 | 6 | US-11-021-949-13 | Sequence 13, Appl |
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| 16 | 56 | 100.0 | 273 | 4 | US-10-000-903-4 | Sequence 4, Appli |
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| 26 | 50 | 89.3 | 149 | 6 | US-11-021-949-16 | Sequence 16, Appl |
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| 56 | 38 | 67.9 | 20 | 5 | US-10-938-249-537 | Sequence 537, App |
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| 59 | 38 | 67.9 | 291 | 4 | US-10-437-963-159798 | Sequence 159798, |
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| 70 | 37 | 66.1 | 342 | 4 | US-10-107-431-33 | Sequence 33, Appl |
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| 72 | 37 | 66.1 | 342 | 4 | US-10-107-431-37 | Sequence 37, Appl |
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| 75 | 37 | 66.1 | 670 | 4 | US-10-282-122A-46354 | Sequence 46354, A |
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| 83 | 36 | 64.3 | 106 | 4 | US-10-424-599-252931 | Sequence 252931, |
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| 85 | 36 | 64.3 | 158 | 6 | US-11-021-949-28 | Sequence 28, Appl |
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| 87 | 36 | 64.3 | 203 | 5 | US-10-482-394-8 | Sequence 8, Appli |
| 88 | 36 | 64.3 | 211 | 3 | US-09-844-036A-7 | Sequence 7, Appli |
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| 93 | 36 | 64.3 | 350 | 4 | US-10-369-493-19871 | Sequence 19871, A |
| 94 | 36 | 64.3 | 383 | 4 | US-10-000-903-23 | Sequence 23, Appl |
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| 98 | 36 | 64.3 | 1663 | 4 | US-10-437-963-106939 | Sequence 106939, |
| 99 | 36 | 64.3 | 2616 | 6 | US-11-097-143-21459 | Sequence 21459, A |
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| 102 | 35.5 | 63.4 | 314 | 4 | US-10-424-599-197292 | Sequence 197292, |
| 103 | 35 | 62.5 | 51 | 4 | US-10-158-742A-14 | Sequence 14, Appl |
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| 105 | 35 | 62.5 | 59 | 4 | US-10-424-599-278726 | Sequence 278726, |
| 106 | 35 | 62.5 | 67 | 4 | US-10-437-963-160345 | Sequence 160345, |
| 107 | 35 | 62.5 | 84 | 4 | US-10-425-115-256331 | Sequence 256331, |
| 108 | 35 | 62.5 | 90 | 4 | US-10-425-114-42635 | Sequence 42635, A |
| 109 | 35 | 62.5 | 91 | 4 | US-10-264-049-2365 | Sequence 2365, Ap |
| 110 | 35 | 62.5 | 112 | 4 | US-10-437-963-183830 | Sequence 183830, |
| 111 | 35 | 62.5 | 131 | 6 | US-11-097-143-7626 | Sequence 7626, Ap |
| 112 | 35 | 62.5 | 134 | 4 | US-10-425-115-290970 | Sequence 290970, |
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| 114 | 35 | 62.5 | 229 | 4 | US-10-424-599-228587 | Sequence 228587, |
| 115 | 35 | 62.5 | 240 | 4 | US-10-437-963-132097 | Sequence 132097, |
| 116 | 35 | 62.5 | 464 | 5 | US-10-732-923-2155 | Sequence 2155, Ap |
| 117 | 35 | 62.5 | 511 | 3 | US-09-912-020-259 | Sequence 259, App |
| 118 | 35 | 62.5 | 511 | 4 | US-10-369-493-836 | Sequence 836, App |
| 119 | 35 | 62.5 | 511 | 5 | US-10-771-241-259 | Sequence 259, App |
| 120 | 35 | 62.5 | 526 | 5 | US-10-450-763-48673 | Sequence 48673, A |
| 121 | 35 | 62.5 | 576 | 4 | US-10-437-963-158051 | Sequence 158051, |
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| 123 | 35 | 62.5 | 627 | 3 | US-09-338-723A-4 | Sequence 4, Appli |
| 124 | 35 | 62.5 | 627 | 4 | US-10-080-210-4 | Sequence 4, Appli |
| 125 | 35 | 62.5 | 639 | 4 | US-10-437-963-159131 | Sequence 159131, |
| 126 | 35 | 62.5 | 786 | 4 | US-10-282-122A-45859 | Sequence 45859, A |
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| 129 | 35 | 62.5 | 873 | 5 | US-10-481-032A-112 | Sequence 112, App |
| 130 | 35 | 62.5 | 922 | 5 | US-10-732-923-8288 | Sequence 8288, Ap |
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| 161 | 34 | 60.7 | 530 | 4 | US-10-282-122A-43269 | Sequence 43269, A |
| 162 | 34 | 60.7 | 530 | 4 | US-10-282-122A-60105 | Sequence 60105, A |
| 163 | 34 | 60.7 | 534 | 4 | US-10-424-599-257168 | Sequence 257168, |
| 164 | 34 | 60.7 | 620 | 4 | US-10-763-179-25 | Sequence 25, Appl |
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| 166 | 34 | 60.7 | 620 | 5 | US-10-876-673-25 | Sequence 25, Appl |
| 167 | 34 | 60.7 | 644 | 4 | US-10-763-179-27 | Sequence 27, Appl |
| 168 | 34 | 60.7 | 644 | 5 | US-10-855-533-27 | Sequence 27, Appl |
| 169 | 34 | 60.7 | 644 | 5 | US-10-876-673-27 | Sequence 27, Appl |
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| 171 | 34 | 60.7 | 866 | 4 | US-10-437-963-122836 | Sequence 122836, |
| 172 | 34 | 60.7 | 943 | 4 | US-10-389-566-756 | Sequence 756, App |
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| 189 | 33.5 | 59.8 | 280 | 4 | US-10-302-267-132 | Sequence 132, App |
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| 242 | 33 | 58.9 | 192 | 4 | US-10-267-502-323 | Sequence 323, App |
| 243 | 33 | 58.9 | 192 | 4 | US-10-267-502-326 | Sequence 326, App |
| 244 | 33 | 58.9 | 192 | 4 | US-10-267-502-327 | Sequence 327, App |
| 245 | 33 | 58.9 | 192 | 4 | US-10-267-502-329 | Sequence 329, App |
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| 265 | 33 | 58.9 | 248 | 4 | US-10-150-813-85 | Sequence 85, Appl |
| 266 | 33 | 58.9 | 248 | 4 | US-10-150-811-85 | Sequence 85, Appl |
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| 270 | 33 | 58.9 | 267 | 4 | US-10-139-854-83 | Sequence 83, Appl |
| 271 | 33 | 58.9 | 267 | 4 | US-10-150-813-83 | Sequence 83, Appl |
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| 343 | 33 | 58.9 | 1013 | 4 | US-10-336-472-128 | Sequence 128, App |
| 344 | 33 | 58.9 | 1013 | 4 | US-10-236-417-152 | Sequence 152, App |
| 345 | 33 | 58.9 | 1018 | 4 | US-10-336-472-126 | Sequence 126, App |
| 346 | 33 | 58.9 | 1018 | 4 | US-10-236-417-154 | Sequence 154, App |
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| 362 | 33 | 58.9 | 1937 | 5 | US-10-732-923-8815 | Sequence 8815, Ap |
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| 364 | 33 | 58.9 | 1944 | 5 | US-10-732-923-8814 | Sequence 8814, Ap |
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| 366 | 33 | 58.9 | 1944 | 5 | US-10-947-476-34 | Sequence 34, Appl |
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| 371 | 33 | 58.9 | 2201 | 4 | US-10-170-385-293 | Sequence 293, App |
| 372 | 33 | 58.9 | 2201 | 4 | US-10-331-496A-29 | Sequence 29, Appl |
| 373 | 33 | 58.9 | 2201 | 4 | US-10-429-160-4 | Sequence 4, Appli |
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| 375 | 33 | 58.9 | 2201 | 5 | US-10-719-993-521 | Sequence 521, App |
| 376 | 33 | 58.9 | 2201 | 5 | US-10-719-993-524 | Sequence 524, App |
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| 379 | 33 | 58.9 | 2201 | 5 | US-10-852-335A-186 | Sequence 186, App |
| 380 | 33 | 58.9 | 2201 | 5 | US-10-287-436A-611 | Sequence 611, App |
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| 394 | 33 | 58.9 | 2261 | 3 | US-09-984-827-136 | Sequence 136, App |
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| 396 | 33 | 58.9 | 2261 | 4 | US-10-313-641-9 | Sequence 9, Appli |
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| 398 | 33 | 58.9 | 2261 | 4 | US-10-336-215-118 | Sequence 118, App |
| 399 | 33 | 58.9 | 2261 | 4 | US-10-336-219-118 | Sequence 118, App |
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| 438 | 32.5 | 58.0 | 868 | 4 | US-10-437-963-171781 | Sequence 171781, |
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| 440 | 32.5 | 58.0 | 894 | 4 | US-10-437-963-175036 | Sequence 175036, |
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| 445 | 32.5 | 58.0 | 935 | 4 | US-10-437-963-175155 | Sequence 175155, |
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| 617 | 32 | 57.1 | 176 | 4 | US-10-425-115-334185 | Sequence 334185, |
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| 625 | 32 | 57.1 | 217 | 5 | US-10-494-672-240 | Sequence 240, App |
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| 630 | 32 | 57.1 | 244 | 3 | US-09-796-294-11 | Sequence 11, Appl |
| 631 | 32 | 57.1 | 244 | 4 | US-10-461-787-11 | Sequence 11, Appl |
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| 633 | 32 | 57.1 | 250 | 4 | US-10-080-170-524 | Sequence 524, App |
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| 637 | 32 | 57.1 | 250 | 4 | US-10-468-356-88 | Sequence 88, Appl |
| 638 | 32 | 57.1 | 250 | 4 | US-10-468-356-524 | Sequence 524, App |
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| 643 | 32 | 57.1 | 267 | 4 | US-10-074-566-4 | Sequence 4, Appli |
| 644 | 32 | 57.1 | 267 | 4 | US-10-074-566-123 | Sequence 123, App |
| 645 | 32 | 57.1 | 267 | 4 | US-10-156-214A-274 | Sequence 274, App |
| 646 | 32 | 57.1 | 267 | 4 | US-10-729-807-8 | Sequence 8, Appli |
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| 654 | 32 | 57.1 | 286 | 4 | US-10-302-267-152 | Sequence 152, App |
| 655 | 32 | 57.1 | 286 | 4 | US-10-412-699B-846 | Sequence 846, App |
| 656 | 32 | 57.1 | 290 | 3 | US-09-910-174A-19 | Sequence 19, Appl |
| 657 | 32 | 57.1 | 290 | 4 | US-10-644-671-19 | Sequence 19, Appl |
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| 661 | 32 | 57.1 | 294 | 4 | US-10-282-122A-64796 | Sequence 64796, A |
| 662 | 32 | 57.1 | 301 | 4 | US-10-221-097-37 | Sequence 37, Appl |
| 663 | 32 | 57.1 | 305 | 5 | US-10-774-355A-2477 | Sequence 2477, Ap |
| 664 | 32 | 57.1 | 316 | 3 | US-09-800-321A-18 | Sequence 18, Appl |
| 665 | 32 | 57.1 | 316 | 4 | US-10-300-846-38 | Sequence 38, Appl |
| 666 | 32 | 57.1 | 316 | 4 | US-10-292-798-234 | Sequence 234, App |
| 667 | 32 | 57.1 | 316 | 4 | US-10-041-615-44 | Sequence 44, Appl |
| 668 | 32 | 57.1 | 316 | 4 | US-10-072-012-525 | Sequence 525, App |
| 669 | 32 | 57.1 | 322 | 4 | US-10-424-599-218706 | Sequence 218706, |
| 670 | 32 | 57.1 | 329 | 4 | US-10-387-629-36 | Sequence 36, Appl |
| 671 | 32 | 57.1 | 333 | 4 | US-10-369-493-10175 | Sequence 10175, A |
| 672 | 32 | 57.1 | 337 | 4 | US-10-425-115-334187 | Sequence 334187, |
| 673 | 32 | 57.1 | 340 | 4 | US-10-282-122A-50849 | Sequence 50849, A |
| 674 | 32 | 57.1 | 350 | 3 | US-09-910-174A-17 | Sequence 17, Appl |
| 675 | 32 | 57.1 | 350 | 4 | US-10-343-650A-244 | Sequence 244, App |
| 676 | 32 | 57.1 | 350 | 4 | US-10-644-671-17 | Sequence 17, Appl |
| 677 | 32 | 57.1 | 357 | 5 | US-10-739-930-10065 | Sequence 10065, A |
| 678 | 32 | 57.1 | 366 | 4 | US-10-437-963-145275 | Sequence 145275, |
| 679 | 32 | 57.1 | 370 | 3 | US-09-886-055-105 | Sequence 105, App |
| 680 | 32 | 57.1 | 370 | 3 | US-09-886-055-167 | Sequence 167, App |
| 681 | 32 | 57.1 | 370 | 3 | US-09-804-291-105 | Sequence 105, App |
| 682 | 32 | 57.1 | 370 | 3 | US-09-804-291-167 | Sequence 167, App |
| 683 | 32 | 57.1 | 370 | 4 | US-10-017-161-264 | Sequence 264, App |
| 684 | 32 | 57.1 | 370 | 4 | US-10-017-161-552 | Sequence 552, App |

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| 686 | 32 | 57.1 | 370 | 5 | US-10-819-316-167 | Sequence 167, App |
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| 691 | 32 | 57.1 | 386 | 4 | US-10-369-493-1556 | Sequence 1556, Ap |
| 692 | 32 | 57.1 | 395 | 4 | US-10-437-963-174584 | Sequence 174584, |
| 693 | 32 | 57.1 | 395 | 5 | US-10-450-763-33910 | Sequence 33910, A |
| 694 | 32 | 57.1 | 405 | 4 | US-10-437-963-121317 | Sequence 121317, |
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| 696 | 32 | 57.1 | 429 | 4 | US-10-767-701-40359 | Sequence 40359, A |
| 697 | 32 | 57.1 | 431 | 5 | US-10-481-265-51 | Sequence 51, Appl |
| 698 | 32 | 57.1 | 435 | 4 | US-10-437-963-201708 | Sequence 201708, |
| 699 | 32 | 57.1 | 436 | 4 | US-10-282-122A-47489 | Sequence 47489, A |
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| 701 | 32 | 57.1 | 456 | 5 | US-10-450-763-58354 | Sequence 58354, A |
| 702 | 32 | 57.1 | 466 | 4 | US-10-424-599-231112 | Sequence 231112, |
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| 704 | 32 | 57.1 | 466 | 4 | US-10-425-114-56970 | Sequence 56970, A |
| 705 | 32 | 57.1 | 476 | 4 | US-10-437-963-106489 | Sequence 106489, |
| 706 | 32 | 57.1 | 477 | 4 | US-10-425-115-355117 | Sequence 355117, |
| 707 | 32 | 57.1 | 485 | 4 | US-10-437-963-142356 | Sequence 142356, |
| 708 | 32 | 57.1 | 486 | 4 | US-10-424-599-225404 | Sequence 225404, |
| 709 | 32 | 57.1 | 501 | 4 | US-10-074-566-61 | Sequence 61, Appl |
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| 712 | 32 | 57.1 | 518 | 4 | US-10-669-161-24 | Sequence 24, Appl |
| 713 | 32 | 57.1 | 528 | 4 | US-10-369-493-1431 | Sequence 1431, Ap |
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| 715 | 32 | 57.1 | 538 | 5 | US-10-719-993-550 | Sequence 550, App |
| 716 | 32 | 57.1 | 539 | 4 | US-10-156-761-9417 | Sequence 9417, Ap |
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| 759 | 32 | 57.1 | 571 | 4 | US-10-016-177A-132 | Sequence 132, App |
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| 774 | 32 | 57.1 | 571 | 4 | US-10-165-247A-132 | Sequence 132, App |
| 775 | 32 | 57.1 | 571 | 4 | US-10-145-124A-132 | Sequence 132, App |
| 776 | 32 | 57.1 | 571 | 4 | US-10-160-502A-132 | Sequence 132, App |
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| 783 | 32 | 57.1 | 571 | 4 | US-10-013-924A-132 | Sequence 132, App |
| 784 | 32 | 57.1 | 571 | 4 | US-10-017-084A-132 | Sequence 132, App |
| 785 | 32 | 57.1 | 571 | 4 | US-10-145-016A-132 | Sequence 132, App |
| 786 | 32 | 57.1 | 571 | 4 | US-10-145-088A-132 | Sequence 132, App |
| 787 | 32 | 57.1 | 571 | 4 | US-10-145-092A-132 | Sequence 132, App |
| 788 | 32 | 57.1 | 571 | 4 | US-10-145-129A-132 | Sequence 132, App |
| 789 | 32 | 57.1 | 571 | 4 | US-10-165-038A-132 | Sequence 132, App |
| 790 | 32 | 57.1 | 571 | 4 | US-10-165-353A-132 | Sequence 132, App |
| 791 | 32 | 57.1 | 571 | 4 | US-10-167-600-132 | Sequence 132, App |
| 792 | 32 | 57.1 | 571 | 4 | US-10-170-481A-132 | Sequence 132, App |
| 793 | 32 | 57.1 | 571 | 4 | US-10-172-039A-132 | Sequence 132, App |
| 794 | 32 | 57.1 | 571 | 4 | US-10-210-028-132 | Sequence 132, App |
| 795 | 32 | 57.1 | 571 | 4 | US-10-017-085A-132 | Sequence 132, App |
| 796 | 32 | 57.1 | 571 | 4 | US-10-013-916A-132 | Sequence 132, App |
| 797 | 32 | 57.1 | 571 | 4 | US-10-074-566-122 | Sequence 122, App |
| 798 | 32 | 57.1 | 571 | 4 | US-10-143-026B-132 | Sequence 132, App |
| 799 | 32 | 57.1 | 571 | 4 | US-10-013-918A-132 | Sequence 132, App |
| 800 | 32 | 57.1 | 571 | 4 | US-10-162-521A-132 | Sequence 132, App |
| 801 | 32 | 57.1 | 571 | 4 | US-10-013-928A-132 | Sequence 132, App |
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| 807 | 32 | 57.1 | 571 | 4 | US-10-013-919A-132 | Sequence 132, App |
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| 810 | 32 | 57.1 | 571 | 4 | US-10-013-917A-132 | Sequence 132, App |
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| 812 | 32 | 57.1 | 571 | 5 | US-10-918-851-132 | Sequence 132, App |
| 813 | 32 | 57.1 | 571 | 5 | US-10-805-667-132 | Sequence 132, App |
| 814 | 32 | 57.1 | 571 | 5 | US-10-897-359-132 | Sequence 132, App |
| 815 | 32 | 57.1 | 571 | 5 | US-10-893-802-132 | Sequence 132, App |
| 816 | 32 | 57.1 | 571 | 5 | US-10-897-360-132 | Sequence 132, App |
| 817 | 32 | 57.1 | 571 | 5 | US-10-165-036A-132 | Sequence 132, App |
| 818 | 32 | 57.1 | 571 | 6 | US-11-129-762-132 | Sequence 132, App |
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| 822 | 32 | 57.1 | 587 | 4 | US-10-425-115-206411 | Sequence 206411, |
| 823 | 32 | 57.1 | 596 | 4 | US-10-437-963-141118 | Sequence 141118, |
| 824 | 32 | 57.1 | 598 | 5 | US-10-739-930-8584 | Sequence 8584, Ap |
| 825 | 32 | 57.1 | 599 | 3 | US-09-775-181-4 | Sequence 4, Appli |
| 826 | 32 | 57.1 | 599 | 5 | US-10-870-450-4 | Sequence 4, Appli |
| 827 | 32 | 57.1 | 608 | 4 | US-10-425-115-207752 | Sequence 207752, |
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| 829 | 32 | 57.1 | 613 | 4 | US-10-156-761-12098 | Sequence 12098, A |
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| 848 | 32 | 57.1 | 918 | 5 | US-10-732-923-8293 | Sequence 8293, Ap |
| 849 | 32 | 57.1 | 956 | 4 | US-10-424-599-159835 | Sequence 159835, |
| 850 | 32 | 57.1 | 993 | 4 | US-10-437-963-182980 | Sequence 182980, |
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| 852 | 32 | 57.1 | 1054 | 4 | US-10-424-599-205772 | Sequence 205772, |
| 853 | 32 | 57.1 | 1062 | 4 | US-10-437-963-156300 | Sequence 156300, |
| 854 | 32 | 57.1 | 1183 | 5 | US-10-485-006A-4 | Sequence 4, Appli |
| 855 | 32 | 57.1 | 1212 | 5 | US-10-485-006A-2 | Sequence 2, Appli |
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| 857 | 32 | 57.1 | 1215 | 4 | US-10-232-539-2 | Sequence 2, Appli |
| 858 | 32 | 57.1 | 1215 | 5 | US-10-870-450-2 | Sequence 2, Appli |
| 859 | 32 | 57.1 | 1309 | 4 | US-10-437-963-106842 | Sequence 106842, |
| 860 | 32 | 57.1 | 1317 | 6 | US-11-097-143-22293 | Sequence 22293, A |
| 861 | 32 | 57.1 | 1352 | 5 | US-10-732-923-8619 | Sequence 8619, Ap |
| 862 | 32 | 57.1 | 1359 | 4 | US-10-369-493-22090 | Sequence 22090, A |
| 863 | 32 | 57.1 | 1359 | 5 | US-10-732-923-8618 | Sequence 8618, Ap |
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| 867 | 32 | 57.1 | 1948 | 4 | US-10-032-585-7611 | Sequence 7611, Ap |
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| 871 | 32 | 57.1 | 2396 | 4 | US-10-737-658-2 | Sequence 2, Appli |
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| 873 | 32 | 57.1 | 2402 | 4 | US-10-203-224-2 | Sequence 2, Appli |
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| 875 | 32 | 57.1 | 2470 | 6 | US-11-097-143-10533 | Sequence 10533, A |
| 876 | 32 | 57.1 | 2692 | 5 | US-10-732-923-13993 | Sequence 13993, A |
| 877 | 32 | 57.1 | 2695 | 5 | US-10-732-923-13994 | Sequence 13994, A |
| 878 | 32 | 57.1 | 2697 | 4 | US-10-369-493-5036 | Sequence 5036, Ap |
| 879 | 32 | 57.1 | 2697 | 5 | US-10-732-923-13995 | Sequence 13995, A |
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| 884 | 31.5 | 56.2 | 260 | 4 | US-10-424-599-158615 | Sequence 158615, |
| 885 | 31.5 | 56.2 | 1438 | 4 | US-10-324-967-30 | Sequence 30, Appl |
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| 887 | 31 | 55.4 | 29 | 3 | US-09-962-756-1397 | Sequence 1397, Ap |
| 888 | 31 | 55.4 | 29 | 4 | US-10-253-471-1397 | Sequence 1397, Ap |
| 889 | 31 | 55.4 | 29 | 4 | US-10-253-493-1397 | Sequence 1397, Ap |
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| 891 | 31 | 55.4 | 53 | 4 | US-10-437-963-176991 | Sequence 176991, |
| 892 | 31 | 55.4 | 55 | 4 | US-10-424-599-159457 | Sequence 159457, |
| 893 | 31 | 55.4 | 56 | 4 | US-10-424-599-158309 | Sequence 158309, |
| 894 | 31 | 55.4 | 56 | 4 | US-10-425-115-243247 | Sequence 243247, |
| 895 | 31 | 55.4 | 59 | 4 | US-10-424-599-282237 | Sequence 282237, |
| 896 | 31 | 55.4 | 59 | 4 | US-10-425-115-246817 | Sequence 246817, |
| 897 | 31 | 55.4 | 59 | 4 | US-10-425-115-275456 | Sequence 275456, |
| 898 | 31 | 55.4 | 64 | 4 | US-10-424-599-210748 | Sequence 210748, |
| 899 | 31 | 55.4 | 65 | 4 | US-10-437-963-118373 | Sequence 118373, |
| 900 | 31 | 55.4 | 67 | 4 | US-10-424-599-161058 | Sequence 161058, |
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| 902 | 31 | 55.4 | 70 | 4 | US-10-424-599-275025 | Sequence 275025, |
| 903 | 31 | 55.4 | 70 | 4 | US-10-425-115-200009 | Sequence 200009, |
| 904 | 31 | 55.4 | 72 | 4 | US-10-425-115-308642 | Sequence 308642, |
| 905 | 31 | 55.4 | 73 | 4 | US-10-424-599-186190 | Sequence 186190, |
| 906 | 31 | 55.4 | 74 | 4 | US-10-437-963-160688 | Sequence 160688, |
| 907 | 31 | 55.4 | 74 | 4 | US-10-425-115-296809 | Sequence 296809, |
| 908 | 31 | 55.4 | 75 | 4 | US-10-425-115-226645 | Sequence 226645, |
| 909 | 31 | 55.4 | 76 | 4 | US-10-437-963-120174 | Sequence 120174, |
| 910 | 31 | 55.4 | 78 | 4 | US-10-424-599-258248 | Sequence 258248, |
| 911 | 31 | 55.4 | 78 | 4 | US-10-437-963-137322 | Sequence 137322, |
| 912 | 31 | 55.4 | 78 | 4 | US-10-425-115-223958 | Sequence 223958, |
| 913 | 31 | 55.4 | 78 | 4 | US-10-425-115-325385 | Sequence 325385, |
| 914 | 31 | 55.4 | 79 | 5 | US-10-501-282-1694 | Sequence 1694, Ap |
| 915 | 31 | 55.4 | 80 | 4 | US-10-424-599-257686 | Sequence 257686, |
| 916 | 31 | 55.4 | 80 | 4 | US-10-425-115-234791 | Sequence 234791, |
| 917 | 31 | 55.4 | 81 | 4 | US-10-425-115-187366 | Sequence 187366, |
| 918 | 31 | 55.4 | 82 | 4 | US-10-437-963-185600 | Sequence 185600, |
| 919 | 31 | 55.4 | 86 | 3 | US-09-884-465A-22 | Sequence 22, Appl |
| 920 | 31 | 55.4 | 86 | 4 | US-10-424-599-173042 | Sequence 173042, |
| 921 | 31 | 55.4 | 86 | 4 | US-10-767-701-40613 | Sequence 40613, A |
| 922 | 31 | 55.4 | 87 | 4 | US-10-425-115-341734 | Sequence 341734, |
| 923 | 31 | 55.4 | 92 | 4 | US-10-424-599-220354 | Sequence 220354, |
| 924 | 31 | 55.4 | 93 | 4 | US-10-424-599-242927 | Sequence 242927, |
| 925 | 31 | 55.4 | 93 | 4 | US-10-424-599-263132 | Sequence 263132, |
| 926 | 31 | 55.4 | 96 | 4 | US-10-425-115-226498 | Sequence 226498, |
| 927 | 31 | 55.4 | 97 | 3 | US-09-826-734-220 | Sequence 220, App |
| 928 | 31 | 55.4 | 98 | 4 | US-10-424-599-187917 | Sequence 187917, |
| 929 | 31 | 55.4 | 98 | 4 | US-10-425-115-216100 | Sequence 216100, |
| 930 | 31 | 55.4 | 98 | 4 | US-10-425-115-279649 | Sequence 279649, |
| 931 | 31 | 55.4 | 99 | 4 | US-10-425-115-294677 | Sequence 294677, |
| 932 | 31 | 55.4 | 101 | 4 | US-10-424-599-152160 | Sequence 152160, |
| 933 | 31 | 55.4 | 102 | 4 | US-10-425-115-271350 | Sequence 271350, |
| 934 | 31 | 55.4 | 104 | 4 | US-10-437-963-198536 | Sequence 198536, |
| 935 | 31 | 55.4 | 105 | 4 | US-10-767-701-51717 | Sequence 51717, A |
| 936 | 31 | 55.4 | 106 | 4 | US-10-424-599-268824 | Sequence 268824, |
| 937 | 31 | 55.4 | 107 | 4 | US-10-425-115-322251 | Sequence 322251, |
| 938 | 31 | 55.4 | 109 | 4 | US-10-437-963-168698 | Sequence 168698, |
| 939 | 31 | 55.4 | 109 | 4 | US-10-425-115-283469 | Sequence 283469, |
| 940 | 31 | 55.4 | 112 | 4 | US-10-425-115-191537 | Sequence 191537, |
| 941 | 31 | 55.4 | 113 | 4 | US-10-425-115-305811 | Sequence 305811, |
| 942 | 31 | 55.4 | 115 | 4 | US-10-424-599-176370 | Sequence 176370, |
| 943 | 31 | 55.4 | 115 | 4 | US-10-425-115-222674 | Sequence 222674, |
| 944 | 31 | 55.4 | 118 | 4 | US-10-086-623-19 | Sequence 19, Appl |
| 945 | 31 | 55.4 | 118 | 4 | US-10-260-539-19 | Sequence 19, Appl |
| 946 | 31 | 55.4 | 118 | 5 | US-10-794-392-19 | Sequence 19, Appl |
| 947 | 31 | 55.4 | 121 | 4 | US-10-425-115-356102 | Sequence 356102, |
| 948 | 31 | 55.4 | 130 | 4 | US-10-424-599-148710 | Sequence 148710, |
| 949 | 31 | 55.4 | 137 | 4 | US-10-424-599-194879 | Sequence 194879, |
| 950 | 31 | 55.4 | 140 | 4 | US-10-258-557-6 | Sequence 6, Appli |
| 951 | 31 | 55.4 | 144 | 4 | US-10-425-115-255166 | Sequence 255166, |
| 952 | 31 | 55.4 | 145 | 6 | US-11-097-143-34386 | Sequence 34386, A |
| 953 | 31 | 55.4 | 148 | 4 | US-10-226-489-11 | Sequence 11, Appl |
| 954 | 31 | 55.4 | 148 | 4 | US-10-767-701-38604 | Sequence 38604, A |
| 955 | 31 | 55.4 | 153 | 4 | US-10-128-714-3113 | Sequence 3113, Ap |
| 956 | 31 | 55.4 | 159 | 3 | US-09-915-582-75 | Sequence 75, Appl |
| 957 | 31 | 55.4 | 159 | 3 | US-09-833-245-1479 | Sequence 1479, Ap |
| 958 | 31 | 55.4 | 159 | 4 | US-10-277-802-75 | Sequence 75, Appl |
| 959 | 31 | 55.4 | 159 | 5 | US-10-896-972-75 | Sequence 75, Appl |
| 960 | 31 | 55.4 | 160 | 4 | US-10-425-115-319206 | Sequence 319206, |
| 961 | 31 | 55.4 | 161 | 4 | US-10-767-701-43122 | Sequence 43122, A |
| 962 | 31 | 55.4 | 161 | 4 | US-10-767-701-54778 | Sequence 54778, A |
| 963 | 31 | 55.4 | 165 | 4 | US-10-424-599-158781 | Sequence 158781, |
| 964 | 31 | 55.4 | 168 | 4 | US-10-437-963-107797 | Sequence 107797, |
| 965 | 31 | 55.4 | 185 | 4 | US-10-424-599-203644 | Sequence 203644, |
| 966 | 31 | 55.4 | 188 | 5 | US-10-501-282-3668 | Sequence 3668, Ap |
| 967 | 31 | 55.4 | 189 | 4 | US-10-424-599-210311 | Sequence 210311, |
| 968 | 31 | 55.4 | 191 | 4 | US-10-369-493-5456 | Sequence 5456, Ap |
| 969 | 31 | 55.4 | 192 | 4 | US-10-128-714-8113 | Sequence 8113, Ap |
| 970 | 31 | 55.4 | 194 | 4 | US-10-280-114-5 | Sequence 5, Appli |
| 971 | 31 | 55.4 | 194 | 5 | US-10-492-072-4 | Sequence 4, Appli |
| 972 | 31 | 55.4 | 197 | 5 | US-10-450-763-38274 | Sequence 38274, A |
| 973 | 31 | 55.4 | 197 | 5 | US-10-450-763-56627 | Sequence 56627, A |
| 974 | 31 | 55.4 | 203 | 4 | US-10-324-143-31 | Sequence 31, Appl |
| 975 | 31 | 55.4 | 204 | 4 | US-10-437-963-166990 | Sequence 166990, |
| 976 | 31 | 55.4 | 205 | 4 | US-10-282-122A-66736 | Sequence 66736, A |

| | | | | | | |
|---|---|---|---|---|---|---|
| 977 | 31 | 55.4 | 207 | 4 | US-10-424-599-282492 | Sequence 282492, |
| 978 | 31 | 55.4 | 207 | 5 | US-10-450-763-59738 | Sequence 59738, A |
| 979 | 31 | 55.4 | 210 | 4 | US-10-424-599-207733 | Sequence 207733, |
| 980 | 31 | 55.4 | 210 | 6 | US-11-097-143-11421 | Sequence 11421, A |
| 981 | 31 | 55.4 | 211 | 4 | US-10-424-599-282488 | Sequence 282488, |
| 982 | 31 | 55.4 | 211 | 4 | US-10-425-114-42150 | Sequence 42150, A |
| 983 | 31 | 55.4 | 211 | 4 | US-10-425-114-61380 | Sequence 61380, A |
| 984 | 31 | 55.4 | 213 | 4 | US-10-425-115-323324 | Sequence 323324, |
| 985 | 31 | 55.4 | 219 | 5 | US-10-450-763-38277 | Sequence 38277, A |
| 986 | 31 | 55.4 | 220 | 4 | US-10-198-677-138 | Sequence 138, App |
| 987 | 31 | 55.4 | 220 | 4 | US-10-425-114-58443 | Sequence 58443, A |
| 988 | 31 | 55.4 | 220 | 5 | US-10-473-238-20 | Sequence 20, Appl |
| 989 | 31 | 55.4 | 224 | 4 | US-10-437-963-177099 | Sequence 177099, |
| 990 | 31 | 55.4 | 226 | 4 | US-10-029-386-34033 | Sequence 34033, A |
| 991 | 31 | 55.4 | 229 | 4 | US-10-437-963-160205 | Sequence 160205, |
| 992 | 31 | 55.4 | 229 | 4 | US-10-724-972A-5401 | Sequence 5401, Ap |
| 993 | 31 | 55.4 | 245 | 4 | US-10-424-599-221372 | Sequence 221372, |
| 994 | 31 | 55.4 | 245 | 4 | US-10-437-963-138190 | Sequence 138190, |
| 995 | 31 | 55.4 | 246 | 5 | US-10-497-526-8 | Sequence 8, Appli |
| 996 | 31 | 55.4 | 248 | 4 | US-10-424-599-187376 | Sequence 187376, |
| 997 | 31 | 55.4 | 256 | 4 | US-10-424-599-274815 | Sequence 274815, |
| 998 | 31 | 55.4 | 256 | 4 | US-10-425-115-196210 | Sequence 196210, |
| 999 | 31 | 55.4 | 258 | 4 | US-10-459-190-12 | Sequence 12, Appl |
| 1000 | 31 | 55.4 | 259 | 3 | US-09-884-465A-374 | Sequence 374, App |

ALIGNMENTS

```
RESULT 1
US-10-476-570-43
; Sequence 43, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 43
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 130-144
US-10-476-570-43

  Query Match             100.0%;  Score 56;  DB 4;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.011;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db          2 RFHNIRGRW 10


RESULT 2
US-10-476-570-41
; Sequence 41, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 41
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 121-140
US-10-476-570-41

  Query Match             100.0%;  Score 56;  DB 4;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.014;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db         11 RFHNIRGRW 19


RESULT 3
US-10-476-570-56
; Sequence 56, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 56
;   LENGTH: 22
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 118-139
US-10-476-570-56

  Query Match             100.0%;  Score 56;  DB 4;  Length 22;
  Best Local Similarity   100.0%;  Pred. No. 0.016;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db         14 RFHNIRGRW 22
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```
RESULT 4
US-10-858-384-10
; Sequence 10, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
;  TITLE OF INVENTION:  OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: 0508-1037-1
;  CURRENT APPLICATION NUMBER: US/10/858,384
;  CURRENT FILING DATE:  2004-06-02
;  PRIOR APPLICATION NUMBER: FR 9907012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 10
;   LENGTH: 22
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
;   OTHER INFORMATION: for E6 of HPV
US-10-858-384-10

  Query Match            100.0%;  Score 56;  DB 5;  Length 22;
  Best Local Similarity   100.0%;  Pred. No. 0.016;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db         14 RFHNIRGRW 22


RESULT 5
US-10-476-570-40
; Sequence 40, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
;  APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
;  APPLICANT:  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
;  APPLICANT:  MAILLERE, Bernard
;  APPLICANT:  BOURGAULT-VILLADA, Isabelle
;  APPLICANT:  POUVELLE-MORATILLE, Sandra
;  APPLICANT:  GUILLET, Jean-Gerard
;  TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
;  TITLE OF INVENTION:  papillomavirus proteins and uses thereof
;  FILE REFERENCE: 45636-5071-US
;  CURRENT APPLICATION NUMBER: US/10/476,570
;  CURRENT FILING DATE:  2003-11-04
;  PRIOR APPLICATION NUMBER: PCT/FR02/01533
;  PRIOR FILING DATE: 2002-05-03
;  PRIOR APPLICATION NUMBER: FR 01 05980
;  PRIOR FILING DATE: 2001-05-04
;  NUMBER OF SEQ ID NOS: 63
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 40
;   LENGTH: 23
;   TYPE: PRT
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Description of the artificial sequence: peptide E6 118-140
US-10-476-570-40

  Query Match            100.0%;  Score 56;  DB 4;  Length 23;
  Best Local Similarity   100.0%;  Pred. No. 0.016;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db         14 RFHNIRGRW 22


RESULT 6
US-11-021-949-5
; Sequence 5, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
;   LENGTH: 24
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-5

  Query Match            100.0%;  Score 56;  DB 6;  Length 24;
  Best Local Similarity   100.0%;  Pred. No. 0.017;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db          8 RFHNIRGRW 16


RESULT 7
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
;  APPLICANT: Schuler, Gerold
;  APPLICANT:  N.V. Antwerps Innovatiecentrum
;  TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
;  TITLE OF INVENTION:  Polynucleotides by Electroporation
;  FILE REFERENCE: 021505wo/JH/ml
;  CURRENT APPLICATION NUMBER: US/10/177,390
;  CURRENT FILING DATE:  2002-06-20
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-177-390-6

  Query Match            100.0%;  Score 56;  DB 4;  Length 151;
  Best Local Similarity   100.0%;  Pred. No. 0.085;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        124 RFHNIRGRW 132


RESULT 8
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
;  APPLICANT: SASTRY, K. JAGANNADHA
```

; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-20

Query Match 100.0%; Score 56; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.085;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RFHNIRGRW 9
||||||||| 
Db 124 RFHNIRGRW 132

RESULT 9
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-27

Query Match 100.0%; Score 56; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.085;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RFHNIRGRW 9
||||||||| 
Db 124 RFHNIRGRW 132

RESULT 10
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-858-384-2

Query Match 100.0%; Score 56; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.088;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RFHNIRGRW 9
||||||||| 
Db 131 RFHNIRGRW 139

RESULT 11
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
; APPLICANT: Cuthill, Scott;
; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; APPLICANT: Ooi, Chean Eng
; TITLE OF INVENTION: Complexes and Methods of Using Same
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/256,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 16
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-367-057-16

Query Match 100.0%; Score 56; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.088;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RFHNIRGRW 9
||||||||| 
Db 131 RFHNIRGRW 139

RESULT 12
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23

```
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

  Query Match            100.0%;  Score 56;  DB 6;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.088;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        131 RFHNIRGRW 139


RESULT 13
US-10-472-724-2
; Sequence 2, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
;  APPLICANT: Cid-Arregui, Angel
;  APPLICANT:  Zur Hausen, Harald
;  TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
;  FILE REFERENCE: 4121-154
;  CURRENT APPLICATION NUMBER: US/10/472,724
;  CURRENT FILING DATE:  2003-09-17
;  PRIOR APPLICATION NUMBER: PCT/EP02/03271
;  PRIOR FILING DATE: 2002-03-22
;  PRIOR APPLICATION NUMBER: EP 01107271.7
;  PRIOR FILING DATE: 2001-03-23
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
;   LENGTH: 171
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

  Query Match            100.0%;  Score 56;  DB 4;  Length 171;
  Best Local Similarity   100.0%;  Pred. No. 0.095;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        136 RFHNIRGRW 144


RESULT 14
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
;  APPLICANT: KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE: 017753-122
;  CURRENT APPLICATION NUMBER: US/11/072,288
;  CURRENT FILING DATE:  2005-03-07
;  PRIOR APPLICATION NUMBER: US/09/462,993
;  PRIOR FILING DATE: 2000-04-17
;  PRIOR APPLICATION NUMBER: PCT/FR98/01576
;  PRIOR FILING DATE: 1998-07-17
;  PRIOR APPLICATION NUMBER: FR 97/09152
;  PRIOR FILING DATE: 1997-07-18
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
;   LENGTH: 243
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Derivated from
;   OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
;   OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

  Query Match            100.0%;  Score 56;  DB 6;  Length 243;
  Best Local Similarity   100.0%;  Pred. No. 0.13;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        154 RFHNIRGRW 162


RESULT 15
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
;  APPLICANT: MACFARLAN, RODERICK I.
;  APPLICANT:  MALLIAROS, JIM
;  TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
;  FILE REFERENCE: 017227/0149
;  CURRENT APPLICATION NUMBER: US/09/367,309A
;  CURRENT FILING DATE:  1999-08-11
;  PRIOR APPLICATION NUMBER: PCT/AU98/00080
;  PRIOR FILING DATE: 1998-02-13
;  PRIOR APPLICATION NUMBER: AU PO 5178
;  PRIOR FILING DATE: 1997-02-19
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 266
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

  Query Match            100.0%;  Score 56;  DB 3;  Length 266;
  Best Local Similarity   100.0%;  Pred. No. 0.14;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        131 RFHNIRGRW 139


RESULT 16
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
```

```
;   ORGANISM: Homo sapien
US-10-000-903-4

  Query Match             100.0%;  Score 56;  DB 4;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 0.14;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        237 RFHNIRGRW 245


RESULT 17
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 273
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
;   OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-4

  Query Match             100.0%;  Score 56;  DB 5;  Length 273;
  Best Local Similarity   100.0%;  Pred. No. 0.14;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        237 RFHNIRGRW 245


RESULT 18
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-000-903-10

  Query Match             100.0%;  Score 56;  DB 4;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.15;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        256 RFHNIRGRW 264


RESULT 19
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
;  APPLICANT: Dalemans, Wilfried L.J.
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;  TITLE OF INVENTION:  and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
;  FILE REFERENCE: B45124
;  CURRENT APPLICATION NUMBER: US/10/899,771
;  CURRENT FILING DATE:  2004-07-27
;  PRIOR APPLICATION NUMBER: US/09/581,976
;  PRIOR FILING DATE: 2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/08563
;  PRIOR FILING DATE: 1998-12-18
;  PRIOR APPLICATION NUMBER: GB 9727262.9
;  PRIOR FILING DATE: 1997-12-24
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 292
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
;   OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
;   OTHER INFORMATION: 16)
US-10-899-771-10

  Query Match             100.0%;  Score 56;  DB 5;  Length 292;
  Best Local Similarity   100.0%;  Pred. No. 0.15;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        256 RFHNIRGRW 264


RESULT 20
US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
;  APPLICANT: Bruck, Claudine
;  APPLICANT:  Cabezon Silva, Teresa
;  APPLICANT:  Delisse, Anne-Marie Eva Fernande
;  APPLICANT:  Gerard, Catherine Marie Ghislaine
;  APPLICANT:  Lombardo-Bencheikh, Angela
;  TITLE OF INVENTION: Vaccine
;  FILE REFERENCE: B45107
;  CURRENT APPLICATION NUMBER: US/10/000,903
;  CURRENT FILING DATE:  2001-10-01
;  PRIOR APPLICATION NUMBER: PCT/EP98/05285
;  PRIOR FILING DATE: 1998-08-17
;  PRIOR APPLICATION NUMBER: GB 9717953.5
;  PRIOR FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 23
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
```

; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-6

Query Match 100.0%; Score 56; DB 4; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RFHNIRGRW 9
||||||||| 
Db 237 RFHNIRGRW 245

RESULT 21
US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilius
; OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-6

Query Match 100.0%; Score 56; DB 5; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RFHNIRGRW 9
||||||||| 
Db 237 RFHNIRGRW 245

RESULT 22
US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-14

Query Match 100.0%; Score 56; DB 4; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RFHNIRGRW 9
||||||||| 
Db 256 RFHNIRGRW 264

RESULT 23
US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-14

Query Match 100.0%; Score 56; DB 5; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RFHNIRGRW 9
||||||||| 
Db 256 RFHNIRGRW 264

RESULT 24
US-11-021-949-17
; Sequence 17, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 17
; LENGTH: 148
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-17

Query Match 89.3%; Score 50; DB 6; Length 148;
Best Local Similarity 88.9%; Pred. No. 0.9;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 RFHNIRGRW 9
||||| |||
Db 124 RFHNIMGRW 132

RESULT 25
US-11-021-949-15
; Sequence 15, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-15

Query Match 89.3%; Score 50; DB 6; Length 149;
Best Local Similarity 88.9%; Pred. No. 0.9;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 RFHNIRGRW 9
||||| |||
Db 124 RFHNISGRW 132

RESULT 26
US-11-021-949-16
; Sequence 16, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-16

Query Match 89.3%; Score 50; DB 6; Length 149;
Best Local Similarity 88.9%; Pred. No. 0.9;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 RFHNIRGRW 9
||||| |||
Db 124 RFHNISGRW 132

RESULT 27
US-11-021-949-14
; Sequence 14, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-14

Query Match 87.5%; Score 49; DB 6; Length 149;
Best Local Similarity 88.9%; Pred. No. 1.3;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 RFHNIRGRW 9
||||| |||
Db 124 RFHNIGGRW 132

RESULT 28
US-11-021-949-18
; Sequence 18, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-18

Query Match 87.5%; Score 49; DB 6; Length 149;
Best Local Similarity 88.9%; Pred. No. 1.3;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 RFHNIRGRW 9
              ||||| |||
Db        124 RFHNIGGRW 132
```

RESULT 29
US-10-476-570-42
; Sequence 42, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 42
; LENGTH: 14
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 124-138
US-10-476-570-42

Query Match 80.4%; Score 45; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.82;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 RFHNIRGR 8
              ||||||||
Db          7 RFHNIRGR 14
```

RESULT 30
US-11-021-949-360
; Sequence 360, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 360
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-360

Query Match 78.6%; Score 44; DB 6; Length 149;
Best Local Similarity 77.8%; Pred. No. 9.7;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```
Qy          1 RFHNIRGRW 9
              ||||| ||
Db        124 RFHNISNRW 132
```

RESULT 31
US-11-021-949-24
; Sequence 24, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 151
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-24

Query Match 78.6%; Score 44; DB 6; Length 151;
Best Local Similarity 77.8%; Pred. No. 9.9;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```
Qy          1 RFHNIRGRW 9
              ||| | |||
Db        124 RFHEIAGRW 132
```

RESULT 32
US-11-021-949-25
; Sequence 25, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 151
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-25

Query Match 78.6%; Score 44; DB 6; Length 151;
Best Local Similarity 77.8%; Pred. No. 9.9;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```
Qy          1 RFHNIRGRW 9
              ||| | |||
Db        124 RFHEIAGRW 132
```

```
RESULT 33
US-10-774-355A-1752
; Sequence 1752, Application US/10774355A
; Publication No. US20050043513A1
; GENERAL INFORMATION:
;  APPLICANT: Firestein, Stuart
;  APPLICANT:  Zhang, Xinmin
;  TITLE OF INVENTION: MOUSE OLFACTORY RECEPTOR GENE SUPERFAMILY
;  FILE REFERENCE: A34570-PCT-USA-A 070050.2520
;  CURRENT APPLICATION NUMBER: US/10/774,355A
;  CURRENT FILING DATE:  2004-02-06
;  PRIOR APPLICATION NUMBER: PCT/US02/25556
;  PRIOR FILING DATE: 2002-08-09
;  PRIOR APPLICATION NUMBER: 60/311,159
;  PRIOR FILING DATE: 2001-08-09
;  PRIOR APPLICATION NUMBER: 60/339,694
;  PRIOR FILING DATE: 2001-12-12
;  NUMBER OF SEQ ID NOS: 2596
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1752
;   LENGTH: 317
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-10-774-355A-1752

  Query Match             73.2%;  Score 41;  DB 5;  Length 317;
  Best Local Similarity   55.6%;  Pred. No. 62;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              : |::|||| 
Db        230 KIHSVRGRW 238


RESULT 34
US-10-767-701-60553
; Sequence 60553, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
;  APPLICANT: Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof For Plant Improvement
;  FILE REFERENCE: 38-21(53535)B
;  CURRENT APPLICATION NUMBER: US/10/767,701
;  CURRENT FILING DATE:  2004-01-29
;  NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 60553
;   LENGTH: 114
;   TYPE: PRT
;   ORGANISM: Sorghum bicolor
;   FEATURE:
;   OTHER INFORMATION: Clone ID: 8090756.pep
US-10-767-701-60553

  Query Match             71.4%;  Score 40;  DB 4;  Length 114;
  Best Local Similarity   85.7%;  Pred. No. 38;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 HNIRGRW 9
              |:|||||
Db         36 HSIRGRW 42


RESULT 35
US-11-021-949-27
; Sequence 27, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
;  APPLICANT: LU, PETER
;  APPLICANT:  GARMAN, JONATHAN DAVID
;  APPLICANT:  BELMARES, MICHAEL P.
;  APPLICANT:  DIAZ-SARMIENTO, CHAMORRO SOMOZA
;  APPLICANT:  SCHWEIZER, JOHANNES
;  TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: VITA-012
;  CURRENT APPLICATION NUMBER: US/11/021,949
;  CURRENT FILING DATE:  2004-12-23
;  PRIOR APPLICATION NUMBER: 60/532,373
;  PRIOR FILING DATE: 2003-12-23
;  NUMBER OF SEQ ID NOS: 361
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 27
;   LENGTH: 150
;   TYPE: PRT
;   ORGANISM: human papilloma virus (HPV)
US-11-021-949-27

  Query Match             71.4%;  Score 40;  DB 6;  Length 150;
  Best Local Similarity   66.7%;  Pred. No. 48;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              ||| | |:|
Db        124 RFHEIAGQW 132


RESULT 36
US-10-424-599-182541
; Sequence 182541, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 182541
;   LENGTH: 557
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(557)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_135847C.1.pep
US-10-424-599-182541

  Query Match             71.4%;  Score 40;  DB 4;  Length 557;
  Best Local Similarity   66.7%;  Pred. No. 1.5e+02;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              :|||| | |
Db        260 KFHNIFGHW 268


RESULT 37
US-10-094-407A-33
; Sequence 33, Application US/10094407A
; Publication No. US20030170761A1
; GENERAL INFORMATION:
;  APPLICANT: Stephens, Richard S.
;  APPLICANT:  Kubo, Aya
;  TITLE OF INVENTION: PorinB (PorB) as a Therapeutic Target
;  TITLE OF INVENTION:  for Prevention and Treatment of Infection by  Chlamydia
;  FILE REFERENCE: BERK-018
;  CURRENT APPLICATION NUMBER: US/10/094,407A
```

```
;  CURRENT FILING DATE:  2002-03-07
;  NUMBER OF SEQ ID NOS: 46
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 33
;   LENGTH: 18
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: synthetic peptide
US-10-094-407A-33

  Query Match             69.6%;  Score 39;  DB 4;  Length 18;
  Best Local Similarity   62.5%;  Pred. No. 11;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 FHNIRGRW 9
              |:|: |||
Db          8 FYNVEGRW 15


RESULT 38
US-10-938-249-534
; Sequence 534, Application US/10938249
; Publication No. US20050037969A1
; GENERAL INFORMATION:
;  APPLICANT: Lu, Peter S.
;  APPLICANT:  Rabinowitz, Joshua D.
;  APPLICANT:  Schweizer, Johannes
;  APPLICANT:  Arbor Vita Corporation
;  TITLE OF INVENTION: Molecular Interactions in Hematopoietic
;  TITLE OF INVENTION:  Cells
;  FILE REFERENCE: 020054-001130US
;  CURRENT APPLICATION NUMBER: US/10/938,249
;  CURRENT FILING DATE:  2004-09-10
;  PRIOR APPLICATION NUMBER: US/09/724,553
;  PRIOR FILING DATE: 2000-11-28
;  PRIOR APPLICATION NUMBER: US 60/134,114
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US 60/134,117
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US 60/134,118
;  PRIOR FILING DATE: 1999-05-14
;  PRIOR APPLICATION NUMBER: US 60/160,860
;  PRIOR FILING DATE: 1999-10-21
;  PRIOR APPLICATION NUMBER: US 60/162,498
;  PRIOR FILING DATE: 1999-10-29
;  PRIOR APPLICATION NUMBER: US 60/170,453
;  PRIOR FILING DATE: 1999-12-13
;  PRIOR APPLICATION NUMBER: US 60/176,195
;  PRIOR FILING DATE: 2000-01-14
;  PRIOR APPLICATION NUMBER: US 60/182,296
;  PRIOR FILING DATE: 2000-02-14
;  PRIOR APPLICATION NUMBER: US 60/196,267
;  PRIOR FILING DATE: 2000-04-11
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 543
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 534
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: HPV54 E6 C-terminal
US-10-938-249-534

  Query Match             69.6%;  Score 39;  DB 5;  Length 20;
  Best Local Similarity   66.7%;  Pred. No. 12;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              ||| :|| |
Db          2 RFHCVRGYW 10


RESULT 39
US-10-425-115-290549
; Sequence 290549, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa, Thomas J.
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants
;  FILE REFERENCE: 38-21(53222)B
;  CURRENT APPLICATION NUMBER: US/10/425,115
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 290549
;   LENGTH: 126
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: MRT4577_28070C.1.pep
US-10-425-115-290549

  Query Match             69.6%;  Score 39;  DB 4;  Length 126;
  Best Local Similarity   66.7%;  Pred. No. 61;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              ||| :| ||
Db         23 RFHCLRSRW 31


RESULT 40
US-09-775-195-2
; Sequence 2, Application US/09775195
; Patent No. US20010048927A1
; GENERAL INFORMATION:
;  APPLICANT:  Stephens, Richard S.
;  APPLICANT:  Kubo, Aya
;  TITLE OF INVENTION:  PorinB (PorB) as a Therapeutic Target
;  TITLE OF INVENTION:  for Prevention and Treatment of Infection by  Chlamydia
;  FILE REFERENCE:  BERK-006
;  CURRENT APPLICATION NUMBER: US/09/775,195
;  CURRENT FILING DATE:  2001-01-31
;  PRIOR APPLICATION NUMBER:  60/179,592
;  PRIOR FILING DATE:  2000-02-01
;  NUMBER OF SEQ ID NOS:  6
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 340
;   TYPE: PRT
;   ORGANISM: C. trachomatis
US-09-775-195-2

  Query Match             69.6%;  Score 39;  DB 3;  Length 340;
  Best Local Similarity   62.5%;  Pred. No. 1.5e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 FHNIRGRW 9
              |:|: |||
Db        319 FYNVEGRW 326


RESULT 41
US-09-775-195-5
; Sequence 5, Application US/09775195
; Patent No. US20010048927A1
; GENERAL INFORMATION:
;  APPLICANT:  Stephens, Richard S.
;  APPLICANT:  Kubo, Aya
;  TITLE OF INVENTION:  PorinB (PorB) as a Therapeutic Target
;  TITLE OF INVENTION:  for Prevention and Treatment of Infection by  Chlamydia
```

```
;  FILE REFERENCE:  BERK-006
;  CURRENT APPLICATION NUMBER: US/09/775,195
;  CURRENT FILING DATE:  2001-01-31
;  PRIOR APPLICATION NUMBER:  60/179,592
;  PRIOR FILING DATE:  2000-02-01
;  NUMBER OF SEQ ID NOS:  6
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 5
;   LENGTH: 340
;   TYPE: PRT
;   ORGANISM: C. trachomatis (L2)
US-09-775-195-5

  Query Match             69.6%;  Score 39;  DB 3;  Length 340;
  Best Local Similarity   62.5%;  Pred. No. 1.5e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 FHNIRGRW 9
              |:|: |||
Db        319 FYNVEGRW 326


RESULT 42
US-09-775-195-6
; Sequence 6, Application US/09775195
; Patent No. US20010048927A1
; GENERAL INFORMATION:
;  APPLICANT:  Stephens, Richard S.
;  APPLICANT:  Kubo, Aya
;  TITLE OF INVENTION:  PorinB (PorB) as a Therapeutic Target
;  TITLE OF INVENTION:  for Prevention and Treatment of Infection by  Chlamydia
;  FILE REFERENCE:  BERK-006
;  CURRENT APPLICATION NUMBER: US/09/775,195
;  CURRENT FILING DATE:  2001-01-31
;  PRIOR APPLICATION NUMBER:  60/179,592
;  PRIOR FILING DATE:  2000-02-01
;  NUMBER OF SEQ ID NOS:  6
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 6
;   LENGTH: 340
;   TYPE: PRT
;   ORGANISM: C. trachomatis (C)
US-09-775-195-6

  Query Match             69.6%;  Score 39;  DB 3;  Length 340;
  Best Local Similarity   62.5%;  Pred. No. 1.5e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 FHNIRGRW 9
              |:|: |||
Db        319 FYNVEGRW 326


RESULT 43
US-10-155-947-2
; Sequence 2, Application US/10155947
; Publication No. US20030021801A1
; GENERAL INFORMATION:
;  APPLICANT: Stephens, Richard S.
;  APPLICANT:  Kubo, Aya
;  TITLE OF INVENTION: PorinB (PorB) as a Therapeutic Target
;  TITLE OF INVENTION:  for Prevention and Treatment of Infection by  Chlamydia
;  FILE REFERENCE: BERK-006
;  CURRENT APPLICATION NUMBER: US/10/155,947
;  CURRENT FILING DATE:  2002-05-24
;  PRIOR APPLICATION NUMBER: US/09/775,195
;  PRIOR FILING DATE: 2001-01-31
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 340
;   TYPE: PRT
;   ORGANISM: C. trachomatis
US-10-155-947-2

  Query Match             69.6%;  Score 39;  DB 4;  Length 340;
  Best Local Similarity   62.5%;  Pred. No. 1.5e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 FHNIRGRW 9
              |:|: |||
Db        319 FYNVEGRW 326


RESULT 44
US-10-155-947-5
; Sequence 5, Application US/10155947
; Publication No. US20030021801A1
; GENERAL INFORMATION:
;  APPLICANT: Stephens, Richard S.
;  APPLICANT:  Kubo, Aya
;  TITLE OF INVENTION: PorinB (PorB) as a Therapeutic Target
;  TITLE OF INVENTION:  for Prevention and Treatment of Infection by  Chlamydia
;  FILE REFERENCE: BERK-006
;  CURRENT APPLICATION NUMBER: US/10/155,947
;  CURRENT FILING DATE:  2002-05-24
;  PRIOR APPLICATION NUMBER: US/09/775,195
;  PRIOR FILING DATE: 2001-01-31
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
;   LENGTH: 340
;   TYPE: PRT
;   ORGANISM: C. trachomatis (L2)
US-10-155-947-5

  Query Match             69.6%;  Score 39;  DB 4;  Length 340;
  Best Local Similarity   62.5%;  Pred. No. 1.5e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 FHNIRGRW 9
              |:|: |||
Db        319 FYNVEGRW 326


RESULT 45
US-10-155-947-6
; Sequence 6, Application US/10155947
; Publication No. US20030021801A1
; GENERAL INFORMATION:
;  APPLICANT: Stephens, Richard S.
;  APPLICANT:  Kubo, Aya
;  TITLE OF INVENTION: PorinB (PorB) as a Therapeutic Target
;  TITLE OF INVENTION:  for Prevention and Treatment of Infection by  Chlamydia
;  FILE REFERENCE: BERK-006
;  CURRENT APPLICATION NUMBER: US/10/155,947
;  CURRENT FILING DATE:  2002-05-24
;  PRIOR APPLICATION NUMBER: US/09/775,195
;  PRIOR FILING DATE: 2001-01-31
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
;   LENGTH: 340
;   TYPE: PRT
;   ORGANISM: C. trachomatis (C)
US-10-155-947-6

  Query Match             69.6%;  Score 39;  DB 4;  Length 340;
  Best Local Similarity   62.5%;  Pred. No. 1.5e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 FHNIRGRW 9
              |:|: |||
Db        319 FYNVEGRW 326
```

```
RESULT 46
US-10-094-407A-2
; Sequence 2, Application US/10094407A
; Publication No. US20030170761A1
; GENERAL INFORMATION:
;  APPLICANT: Stephens, Richard S.
;  APPLICANT:  Kubo, Aya
;  TITLE OF INVENTION: PorinB (PorB) as a Therapeutic Target
;  TITLE OF INVENTION:  for Prevention and Treatment of Infection by  Chlamydia
;  FILE REFERENCE: BERK-018
;  CURRENT APPLICATION NUMBER: US/10/094,407A
;  CURRENT FILING DATE:  2002-03-07
;  NUMBER OF SEQ ID NOS: 46
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 340
;   TYPE: PRT
;   ORGANISM: C. trachomatis
US-10-094-407A-2

  Query Match             69.6%;  Score 39;  DB 4;  Length 340;
  Best Local Similarity   62.5%;  Pred. No. 1.5e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 FHNIRGRW 9
              |:|: |||
Db        319 FYNVEGRW 326


RESULT 47
US-10-094-407A-5
; Sequence 5, Application US/10094407A
; Publication No. US20030170761A1
; GENERAL INFORMATION:
;  APPLICANT: Stephens, Richard S.
;  APPLICANT:  Kubo, Aya
;  TITLE OF INVENTION: PorinB (PorB) as a Therapeutic Target
;  TITLE OF INVENTION:  for Prevention and Treatment of Infection by  Chlamydia
;  FILE REFERENCE: BERK-018
;  CURRENT APPLICATION NUMBER: US/10/094,407A
;  CURRENT FILING DATE:  2002-03-07
;  NUMBER OF SEQ ID NOS: 46
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
;   LENGTH: 340
;   TYPE: PRT
;   ORGANISM: C. trachomatis (L2)
US-10-094-407A-5

  Query Match             69.6%;  Score 39;  DB 4;  Length 340;
  Best Local Similarity   62.5%;  Pred. No. 1.5e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 FHNIRGRW 9
              |:|: |||
Db        319 FYNVEGRW 326


RESULT 48
US-10-094-407A-6
; Sequence 6, Application US/10094407A
; Publication No. US20030170761A1
; GENERAL INFORMATION:
;  APPLICANT: Stephens, Richard S.
;  APPLICANT:  Kubo, Aya
;  TITLE OF INVENTION: PorinB (PorB) as a Therapeutic Target
;  TITLE OF INVENTION:  for Prevention and Treatment of Infection by  Chlamydia
;  FILE REFERENCE: BERK-018
;  CURRENT APPLICATION NUMBER: US/10/094,407A
;  CURRENT FILING DATE:  2002-03-07
;  NUMBER OF SEQ ID NOS: 46
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
;   LENGTH: 340
;   TYPE: PRT
;   ORGANISM: C. trachomatis (C)
US-10-094-407A-6

  Query Match             69.6%;  Score 39;  DB 4;  Length 340;
  Best Local Similarity   62.5%;  Pred. No. 1.5e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 FHNIRGRW 9
              |:|: |||
Db        319 FYNVEGRW 326


RESULT 49
US-10-467-534-2
; Sequence 2, Application US/10467534
; Publication No. US20040131625A1
; GENERAL INFORMATION:
;  APPLICANT: Berthet, Francois-Xavier Jacques
;  APPLICANT:  Lobet, Yves
;  APPLICANT:  Poolman, Jan
;  APPLICANT:  Verlant, Vincent Georges Christian Louis
;  TITLE OF INVENTION: Vaccine Composition
;  FILE REFERENCE: B45261
;  CURRENT APPLICATION NUMBER: US/10/467,534
;  CURRENT FILING DATE:  2003-08-08
;  PRIOR APPLICATION NUMBER: PCT/EP02/01356
;  PRIOR FILING DATE: 2002-02-08
;  PRIOR APPLICATION NUMBER: GB 0103169.9
;  PRIOR FILING DATE: 2001-02-08
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 340
;   TYPE: PRT
;   ORGANISM: Chlamydia trachomatis
US-10-467-534-2

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  Best Local Similarity   62.5%;  Pred. No. 1.5e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

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Db        319 FYNVEGRW 326


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; Publication No. US20040131625A1
; GENERAL INFORMATION:
;  APPLICANT: Berthet, Francois-Xavier Jacques
;  APPLICANT:  Lobet, Yves
;  APPLICANT:  Poolman, Jan
;  APPLICANT:  Verlant, Vincent Georges Christian Louis
;  TITLE OF INVENTION: Vaccine Composition
;  FILE REFERENCE: B45261
;  CURRENT APPLICATION NUMBER: US/10/467,534
;  CURRENT FILING DATE:  2003-08-08
;  PRIOR APPLICATION NUMBER: PCT/EP02/01356
;  PRIOR FILING DATE: 2002-02-08
;  PRIOR APPLICATION NUMBER: GB 0103169.9
;  PRIOR FILING DATE: 2001-02-08
;  NUMBER OF SEQ ID NOS: 108
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;   ORGANISM: Chlamydia trachomatis
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OM protein - protein search, using sw model

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Scoring table: BLOSUM62
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Post-processing: Minimum Match 0%
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Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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| 212 | 30 | 53.6 | 166 | 11 | US-11-096-568A-24434 | Sequence 24434, A |
| 213 | 30 | 53.6 | 170 | 11 | US-11-087-099-9071 | Sequence 9071, Ap |
| 214 | 30 | 53.6 | 174 | 11 | US-11-087-099-6647 | Sequence 6647, Ap |
| 215 | 30 | 53.6 | 176 | 11 | US-11-096-568A-17368 | Sequence 17368, A |
| 216 | 30 | 53.6 | 179 | 11 | US-11-072-512-2752 | Sequence 2752, Ap |
| 217 | 30 | 53.6 | 183 | 11 | US-11-096-568A-24433 | Sequence 24433, A |
| 218 | 30 | 53.6 | 188 | 11 | US-11-096-568A-34043 | Sequence 34043, A |
| 219 | 30 | 53.6 | 189 | 11 | US-11-096-568A-17367 | Sequence 17367, A |
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| 221 | 30 | 53.6 | 192 | 11 | US-11-072-175-193 | Sequence 193, App |
| 222 | 30 | 53.6 | 192 | 11 | US-11-087-099-4008 | Sequence 4008, Ap |
| 223 | 30 | 53.6 | 194 | 11 | US-11-087-099-11334 | Sequence 11334, A |
| 224 | 30 | 53.6 | 195 | 11 | US-11-096-568A-6043 | Sequence 6043, Ap |
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| 226 | 30 | 53.6 | 199 | 11 | US-11-096-568A-24973 | Sequence 24973, A |
| 227 | 30 | 53.6 | 205 | 11 | US-11-172-740-1459 | Sequence 1459, Ap |
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| 229 | 30 | 53.6 | 217 | 11 | US-11-172-740-1462 | Sequence 1462, Ap |
| 230 | 30 | 53.6 | 219 | 11 | US-11-050-857-781 | Sequence 781, App |
| 231 | 30 | 53.6 | 224 | 11 | US-11-087-099-7249 | Sequence 7249, Ap |
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| 236 | 30 | 53.6 | 233 | 11 | US-11-096-568A-21774 | Sequence 21774, A |
| 237 | 30 | 53.6 | 238 | 11 | US-11-050-857-779 | Sequence 779, App |
| 238 | 30 | 53.6 | 242 | 11 | US-11-087-099-8575 | Sequence 8575, Ap |
| 239 | 30 | 53.6 | 244 | 11 | US-11-050-857-780 | Sequence 780, App |
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| 253 | 30 | 53.6 | 261 | 11 | US-11-050-857-777 | Sequence 777, App |
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| 262 | 30 | 53.6 | 291 | 11 | US-11-096-568A-21559 | Sequence 21559, A |
| 263 | 30 | 53.6 | 293 | 11 | US-11-087-099-513 | Sequence 513, App |
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| 266 | 30 | 53.6 | 300 | 11 | US-11-087-099-8453 | Sequence 8453, Ap |
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| 269 | 30 | 53.6 | 310 | 11 | US-11-087-099-2317 | Sequence 2317, Ap |
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| 307 | 30 | 53.6 | 466 | 11 | US-11-096-568A-12570 | Sequence 12570, A |
| 308 | 30 | 53.6 | 468 | 11 | US-11-072-512-3829 | Sequence 3829, Ap |
| 309 | 30 | 53.6 | 471 | 11 | US-11-188-298-15625 | Sequence 15625, A |
| 310 | 30 | 53.6 | 473 | 11 | US-11-188-298-2143 | Sequence 2143, Ap |
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| 312 | 30 | 53.6 | 511 | 9 | US-10-510-947-3 | Sequence 3, Appli |
| 313 | 30 | 53.6 | 514 | 11 | US-11-051-720-1346 | Sequence 1346, Ap |
| 314 | 30 | 53.6 | 516 | 11 | US-11-188-298-17942 | Sequence 17942, A |
| 315 | 30 | 53.6 | 542 | 11 | US-11-031-206-110 | Sequence 110, App |
| 316 | 30 | 53.6 | 555 | 9 | US-10-330-773-653 | Sequence 653, App |
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| 321 | 30 | 53.6 | 647 | 9 | US-10-501-841-121 | Sequence 121, App |
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| 323 | 30 | 53.6 | 707 | 11 | US-11-096-568A-6966 | Sequence 6966, Ap |
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| 330 | 30 | 53.6 | 1270 | 9 | US-10-501-841-120 | Sequence 120, App |
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| 333 | 29.5 | 52.7 | 140 | 9 | US-10-506-454-228 | Sequence 228, App |
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| 339 | 29 | 51.8 | 10 | 9 | US-10-530-061-530 | Sequence 530, App |
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| 347 | 29 | 51.8 | 158 | 9 | US-10-530-253-19 | Sequence 19, Appl |
| 348 | 29 | 51.8 | 161 | 9 | US-10-965-694-12 | Sequence 12, Appl |
| 349 | 29 | 51.8 | 161 | 9 | US-10-965-694-17 | Sequence 17, Appl |
| 350 | 29 | 51.8 | 161 | 11 | US-11-096-568A-32762 | Sequence 32762, A |
| 351 | 29 | 51.8 | 171 | 9 | US-10-506-454-254 | Sequence 254, App |
| 352 | 29 | 51.8 | 198 | 11 | US-11-096-568A-16258 | Sequence 16258, A |
| 353 | 29 | 51.8 | 199 | 9 | US-10-506-454-998 | Sequence 998, App |
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| 357 | 29 | 51.8 | 221 | 11 | US-11-038-285A-11 | Sequence 11, Appl |
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| 361 | 29 | 51.8 | 250 | 11 | US-11-188-298-9972 | Sequence 9972, Ap |
| 362 | 29 | 51.8 | 253 | 9 | US-10-524-647-84 | Sequence 84, Appl |
| 363 | 29 | 51.8 | 253 | 9 | US-10-524-972-92 | Sequence 92, Appl |
| 364 | 29 | 51.8 | 253 | 9 | US-10-541-513-4 | Sequence 4, Appli |
| 365 | 29 | 51.8 | 256 | 11 | US-11-087-099-614 | Sequence 614, App |
| 366 | 29 | 51.8 | 257 | 9 | US-10-524-972-132 | Sequence 132, App |
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| 368 | 29 | 51.8 | 274 | 11 | US-11-096-568A-26829 | Sequence 26829, A |
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| 374 | 29 | 51.8 | 313 | 11 | US-11-087-099-6384 | Sequence 6384, Ap |
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| 377 | 29 | 51.8 | 321 | 11 | US-11-079-463-7686 | Sequence 7686, Ap |
| 378 | 29 | 51.8 | 324 | 11 | US-11-096-568A-18763 | Sequence 18763, A |
| 379 | 29 | 51.8 | 327 | 9 | US-10-055-877-337 | Sequence 337, App |
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| 381 | 29 | 51.8 | 337 | 11 | US-11-079-463-7873 | Sequence 7873, Ap |
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| 388 | 29 | 51.8 | 362 | 11 | US-11-096-568A-19008 | Sequence 19008, A |
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| 397 | 29 | 51.8 | 449 | 11 | US-11-087-099-1709 | Sequence 1709, Ap |
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| 399 | 29 | 51.8 | 462 | 11 | US-11-096-568A-18762 | Sequence 18762, A |
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| 404 | 29 | 51.8 | 492 | 11 | US-11-188-298-3413 | Sequence 3413, Ap |
| 405 | 29 | 51.8 | 492 | 11 | US-11-188-298-18447 | Sequence 18447, A |
| 406 | 29 | 51.8 | 492 | 11 | US-11-188-298-20689 | Sequence 20689, A |
| 407 | 29 | 51.8 | 493 | 11 | US-11-087-099-2821 | Sequence 2821, Ap |
| 408 | 29 | 51.8 | 493 | 11 | US-11-188-298-13708 | Sequence 13708, A |
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| 412 | 29 | 51.8 | 514 | 9 | US-10-840-688-4 | Sequence 4, Appli |
| 413 | 29 | 51.8 | 514 | 9 | US-10-840-688-5 | Sequence 5, Appli |
| 414 | 29 | 51.8 | 514 | 9 | US-10-840-688-6 | Sequence 6, Appli |
| 415 | 29 | 51.8 | 514 | 9 | US-10-840-688-7 | Sequence 7, Appli |
| 416 | 29 | 51.8 | 514 | 9 | US-10-840-688-8 | Sequence 8, Appli |
| 417 | 29 | 51.8 | 514 | 9 | US-10-840-688-9 | Sequence 9, Appli |
| 418 | 29 | 51.8 | 514 | 9 | US-10-840-688-10 | Sequence 10, Appl |
| 419 | 29 | 51.8 | 514 | 9 | US-10-840-688-11 | Sequence 11, Appl |
| 420 | 29 | 51.8 | 514 | 9 | US-10-840-688-12 | Sequence 12, Appl |
| 421 | 29 | 51.8 | 514 | 9 | US-10-840-688-13 | Sequence 13, Appl |
| 422 | 29 | 51.8 | 514 | 9 | US-10-840-688-21 | Sequence 21, Appl |
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| 424 | 29 | 51.8 | 542 | 11 | US-11-094-917-12 | Sequence 12, Appl |
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| 429 | 29 | 51.8 | 666 | 11 | US-11-188-298-19853 | Sequence 19853, A |
| 430 | 29 | 51.8 | 689 | 9 | US-10-469-469-191 | Sequence 191, App |
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| 432 | 29 | 51.8 | 726 | 11 | US-11-052-554A-217 | Sequence 217, App |
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| 437 | 29 | 51.8 | 828 | 11 | US-11-188-298-6360 | Sequence 6360, Ap |
| 438 | 29 | 51.8 | 844 | 11 | US-11-188-298-16973 | Sequence 16973, A |
| 439 | 29 | 51.8 | 908 | 11 | US-11-019-711-4 | Sequence 4, Appli |
| 440 | 29 | 51.8 | 917 | 11 | US-11-169-041-145 | Sequence 145, App |
| 441 | 29 | 51.8 | 953 | 11 | US-11-019-711-50 | Sequence 50, Appl |
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| 445 | 29 | 51.8 | 1640 | 11 | US-11-019-711-8 | Sequence 8, Appli |
| 446 | 29 | 51.8 | 1645 | 8 | US-10-505-928-582 | Sequence 582, App |
| 447 | 29 | 51.8 | 1649 | 9 | US-10-995-561-974 | Sequence 974, App |
| 448 | 29 | 51.8 | 1694 | 11 | US-11-135-855-36 | Sequence 36, Appl |
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| 450 | 29 | 51.8 | 1700 | 9 | US-10-453-372-412 | Sequence 412, App |
| 451 | 29 | 51.8 | 1700 | 9 | US-10-453-372-414 | Sequence 414, App |
| 452 | 29 | 51.8 | 1700 | 9 | US-10-453-372-416 | Sequence 416, App |
| 453 | 29 | 51.8 | 1700 | 9 | US-10-453-372-418 | Sequence 418, App |
| 454 | 29 | 51.8 | 1709 | 9 | US-10-995-561-973 | Sequence 973, App |
| 455 | 29 | 51.8 | 1709 | 9 | US-10-453-372-410 | Sequence 410, App |
| 456 | 29 | 51.8 | 1709 | 11 | US-11-135-855-35 | Sequence 35, Appl |
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| 458 | 29 | 51.8 | 1730 | 11 | US-11-193-715-4 | Sequence 4, Appli |
| 459 | 29 | 51.8 | 1900 | 9 | US-10-513-786-3 | Sequence 3, Appli |
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| 461 | 29 | 51.8 | 3690 | 9 | US-10-995-561-1016 | Sequence 1016, Ap |
| 462 | 29 | 51.8 | 3704 | 9 | US-10-513-786-1 | Sequence 1, Appli |
| 463 | 29 | 51.8 | 3714 | 9 | US-10-995-561-1015 | Sequence 1015, Ap |
| 464 | 29 | 51.8 | 3717 | 9 | US-10-821-234-1076 | Sequence 1076, Ap |
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| 467 | 28.5 | 50.9 | 453 | 11 | US-11-087-099-7775 | Sequence 7775, Ap |
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| 469 | 28 | 50.0 | 69 | 11 | US-11-040-830-10 | Sequence 10, Appl |
| 470 | 28 | 50.0 | 70 | 11 | US-11-079-463-6318 | Sequence 6318, Ap |
| 471 | 28 | 50.0 | 90 | 11 | US-11-096-568A-21046 | Sequence 21046, A |
| 472 | 28 | 50.0 | 95 | 11 | US-11-087-099-1721 | Sequence 1721, Ap |
| 473 | 28 | 50.0 | 99 | 9 | US-10-853-807A-10 | Sequence 10, Appl |
| 474 | 28 | 50.0 | 123 | 11 | US-11-098-686-11187 | Sequence 11187, A |
| 475 | 28 | 50.0 | 125 | 11 | US-11-072-512-2090 | Sequence 2090, Ap |
| 476 | 28 | 50.0 | 127 | 11 | US-11-096-568A-21045 | Sequence 21045, A |
| 477 | 28 | 50.0 | 132 | 11 | US-11-264-728-10 | Sequence 10, Appl |
| 478 | 28 | 50.0 | 133 | 11 | US-11-072-512-2650 | Sequence 2650, Ap |
| 479 | 28 | 50.0 | 136 | 11 | US-11-096-568A-8733 | Sequence 8733, Ap |
| 480 | 28 | 50.0 | 139 | 11 | US-11-087-099-11509 | Sequence 11509, A |
| 481 | 28 | 50.0 | 146 | 9 | US-10-467-657-3166 | Sequence 3166, Ap |
| 482 | 28 | 50.0 | 151 | 11 | US-11-087-099-4460 | Sequence 4460, Ap |
| 483 | 28 | 50.0 | 156 | 11 | US-11-072-512-3692 | Sequence 3692, Ap |
| 484 | 28 | 50.0 | 158 | 9 | US-10-793-626-2650 | Sequence 2650, Ap |
| 485 | 28 | 50.0 | 174 | 11 | US-11-045-004-1031 | Sequence 1031, Ap |
| 486 | 28 | 50.0 | 175 | 11 | US-11-087-099-6106 | Sequence 6106, Ap |
| 487 | 28 | 50.0 | 177 | 9 | US-10-506-454-608 | Sequence 608, App |
| 488 | 28 | 50.0 | 187 | 9 | US-10-506-454-56 | Sequence 56, Appl |
| 489 | 28 | 50.0 | 187 | 11 | US-11-188-298-4690 | Sequence 4690, Ap |
| 490 | 28 | 50.0 | 189 | 11 | US-11-087-099-7354 | Sequence 7354, Ap |
| 491 | 28 | 50.0 | 195 | 11 | US-11-087-099-7562 | Sequence 7562, Ap |
| 492 | 28 | 50.0 | 197 | 11 | US-11-188-298-5573 | Sequence 5573, Ap |
| 493 | 28 | 50.0 | 199 | 11 | US-11-052-554A-61 | Sequence 61, Appl |
| 494 | 28 | 50.0 | 199 | 11 | US-11-052-554A-62 | Sequence 62, Appl |
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| 496 | 28 | 50.0 | 199 | 11 | US-11-052-554A-64 | Sequence 64, Appl |
| 497 | 28 | 50.0 | 199 | 11 | US-11-188-298-14303 | Sequence 14303, A |
| 498 | 28 | 50.0 | 200 | 9 | US-10-454-437-246 | Sequence 246, App |
| 499 | 28 | 50.0 | 213 | 11 | US-11-079-463-8999 | Sequence 8999, Ap |
| 500 | 28 | 50.0 | 214 | 9 | US-10-793-626-1898 | Sequence 1898, Ap |
| 501 | 28 | 50.0 | 215 | 11 | US-11-096-568A-18250 | Sequence 18250, A |
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| 503 | 28 | 50.0 | 224 | 9 | US-10-793-626-1002 | Sequence 1002, Ap |
| 504 | 28 | 50.0 | 227 | 11 | US-11-096-568A-4176 | Sequence 4176, Ap |
| 505 | 28 | 50.0 | 227 | 11 | US-11-096-568A-15336 | Sequence 15336, A |
| 506 | 28 | 50.0 | 231 | 11 | US-11-087-099-9419 | Sequence 9419, Ap |
| 507 | 28 | 50.0 | 232 | 11 | US-11-087-099-547 | Sequence 547, App |
| 508 | 28 | 50.0 | 236 | 11 | US-11-079-463-5430 | Sequence 5430, Ap |
| 509 | 28 | 50.0 | 244 | 11 | US-11-079-463-10147 | Sequence 10147, A |
| 510 | 28 | 50.0 | 251 | 11 | US-11-087-099-5492 | Sequence 5492, Ap |
| 511 | 28 | 50.0 | 254 | 11 | US-11-054-515-844 | Sequence 844, App |
| 512 | 28 | 50.0 | 254 | 11 | US-11-266-444-844 | Sequence 844, App |
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| 516 | 28 | 50.0 | 267 | 11 | US-11-087-099-9190 | Sequence 9190, Ap |
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| 518 | 28 | 50.0 | 267 | 11 | US-11-188-298-8547 | Sequence 8547, Ap |
| 519 | 28 | 50.0 | 267 | 11 | US-11-188-298-19666 | Sequence 19666, A |
| 520 | 28 | 50.0 | 273 | 11 | US-11-087-099-12430 | Sequence 12430, A |
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| 523 | 28 | 50.0 | 274 | 9 | US-10-467-657-3060 | Sequence 3060, Ap |
| 524 | 28 | 50.0 | 280 | 11 | US-11-087-099-7716 | Sequence 7716, Ap |
| 525 | 28 | 50.0 | 281 | 11 | US-11-045-004-2151 | Sequence 2151, Ap |
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| 527 | 28 | 50.0 | 283 | 11 | US-11-072-175-221 | Sequence 221, App |
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| 530 | 28 | 50.0 | 291 | 11 | US-11-264-096-2119 | Sequence 2119, Ap |
| 531 | 28 | 50.0 | 298 | 11 | US-11-087-099-6737 | Sequence 6737, Ap |
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| 536 | 28 | 50.0 | 308 | 9 | US-10-793-626-578 | Sequence 578, App |
| 537 | 28 | 50.0 | 313 | 11 | US-11-188-298-274 | Sequence 274, App |
| 538 | 28 | 50.0 | 313 | 11 | US-11-229-769-318 | Sequence 318, App |
| 539 | 28 | 50.0 | 318 | 9 | US-10-873-528-192 | Sequence 192, App |
| 540 | 28 | 50.0 | 318 | 11 | US-11-052-554A-233 | Sequence 233, App |
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| 542 | 28 | 50.0 | 318 | 11 | US-11-264-096-609 | Sequence 609, App |
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| 551 | 28 | 50.0 | 348 | 11 | US-11-188-298-8361 | Sequence 8361, Ap |
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| 553 | 28 | 50.0 | 351 | 11 | US-11-172-740-1104 | Sequence 1104, Ap |
| 554 | 28 | 50.0 | 351 | 11 | US-11-172-740-1105 | Sequence 1105, Ap |
| 555 | 28 | 50.0 | 352 | 11 | US-11-264-096-2122 | Sequence 2122, Ap |
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| 557 | 28 | 50.0 | 354 | 9 | US-10-467-657-1952 | Sequence 1952, Ap |
| 558 | 28 | 50.0 | 356 | 11 | US-11-087-099-6892 | Sequence 6892, Ap |
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| 560 | 28 | 50.0 | 364 | 9 | US-10-467-657-2822 | Sequence 2822, Ap |
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| 562 | 28 | 50.0 | 370 | 11 | US-11-087-099-7005 | Sequence 7005, Ap |
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| 568 | 28 | 50.0 | 395 | 11 | US-11-096-568A-16250 | Sequence 16250, A |
| 569 | 28 | 50.0 | 398 | 11 | US-11-087-099-4749 | Sequence 4749, Ap |
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| 571 | 28 | 50.0 | 403 | 11 | US-11-096-568A-23495 | Sequence 23495, A |
| 572 | 28 | 50.0 | 404 | 11 | US-11-264-096-2108 | Sequence 2108, Ap |
| 573 | 28 | 50.0 | 409 | 11 | US-11-096-568A-3003 | Sequence 3003, Ap |
| 574 | 28 | 50.0 | 409 | 11 | US-11-096-568A-3006 | Sequence 3006, Ap |
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| 584 | 28 | 50.0 | 434 | 9 | US-10-467-657-4482 | Sequence 4482, Ap |
| 585 | 28 | 50.0 | 435 | 11 | US-11-150-845-26 | Sequence 26, Appl |
| 586 | 28 | 50.0 | 435 | 11 | US-11-150-487-26 | Sequence 26, Appl |
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| 593 | 28 | 50.0 | 468 | 11 | US-11-087-099-3808 | Sequence 3808, Ap |
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| 595 | 28 | 50.0 | 469 | 11 | US-11-188-298-2413 | Sequence 2413, Ap |
| 596 | 28 | 50.0 | 469 | 11 | US-11-188-298-10565 | Sequence 10565, A |
| 597 | 28 | 50.0 | 472 | 9 | US-10-511-989-163 | Sequence 163, App |
| 598 | 28 | 50.0 | 473 | 11 | US-11-188-298-1021 | Sequence 1021, Ap |
| 599 | 28 | 50.0 | 473 | 11 | US-11-188-298-4129 | Sequence 4129, Ap |
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| 604 | 28 | 50.0 | 485 | 11 | US-11-096-568A-14749 | Sequence 14749, A |
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| 606 | 28 | 50.0 | 489 | 9 | US-10-194-487-116 | Sequence 116, App |
| 607 | 28 | 50.0 | 489 | 9 | US-10-195-883-116 | Sequence 116, App |
| 608 | 28 | 50.0 | 489 | 9 | US-10-195-888-116 | Sequence 116, App |
| 609 | 28 | 50.0 | 489 | 9 | US-10-195-889-116 | Sequence 116, App |
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| 614 | 28 | 50.0 | 516 | 11 | US-11-045-802-36 | Sequence 36, Appl |
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| 616 | 28 | 50.0 | 519 | 11 | US-11-079-463-6278 | Sequence 6278, Ap |
| 617 | 28 | 50.0 | 523 | 11 | US-11-188-298-15643 | Sequence 15643, A |
| 618 | 28 | 50.0 | 540 | 11 | US-11-045-802-35 | Sequence 35, Appl |
| 619 | 28 | 50.0 | 565 | 11 | US-11-045-802-34 | Sequence 34, Appl |
| 620 | 28 | 50.0 | 577 | 11 | US-11-124-368A-232 | Sequence 232, App |
| 621 | 28 | 50.0 | 579 | 11 | US-11-045-802-32 | Sequence 32, Appl |
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| 625 | 28 | 50.0 | 579 | 11 | US-11-188-298-2412 | Sequence 2412, Ap |
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| 628 | 28 | 50.0 | 584 | 11 | US-11-045-802-31 | Sequence 31, Appl |
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| 634 | 28 | 50.0 | 614 | 11 | US-11-096-568A-27682 | Sequence 27682, A |
| 635 | 28 | 50.0 | 629 | 11 | US-11-098-686-11359 | Sequence 11359, A |
| 636 | 28 | 50.0 | 629 | 11 | US-11-188-298-655 | Sequence 655, App |
| 637 | 28 | 50.0 | 655 | 11 | US-11-045-802-29 | Sequence 29, Appl |
| 638 | 28 | 50.0 | 655 | 11 | US-11-087-099-1670 | Sequence 1670, Ap |
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| 640 | 28 | 50.0 | 661 | 11 | US-11-188-298-20346 | Sequence 20346, A |
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| 643 | 28 | 50.0 | 692 | 11 | US-11-087-099-654 | Sequence 654, App |
| 644 | 28 | 50.0 | 710 | 11 | US-11-045-802-2 | Sequence 2, Appli |
| 645 | 28 | 50.0 | 710 | 11 | US-11-045-802-19 | Sequence 19, Appl |
| 646 | 28 | 50.0 | 710 | 11 | US-11-045-802-20 | Sequence 20, Appl |
| 647 | 28 | 50.0 | 710 | 11 | US-11-045-802-21 | Sequence 21, Appl |
| 648 | 28 | 50.0 | 710 | 11 | US-11-045-802-22 | Sequence 22, Appl |
| 649 | 28 | 50.0 | 710 | 11 | US-11-045-802-23 | Sequence 23, Appl |
| 650 | 28 | 50.0 | 710 | 11 | US-11-045-802-24 | Sequence 24, Appl |
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| 652 | 28 | 50.0 | 767 | 11 | US-11-087-099-3708 | Sequence 3708, Ap |
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| 654 | 28 | 50.0 | 774 | 11 | US-11-087-099-892 | Sequence 892, App |
| 655 | 28 | 50.0 | 775 | 11 | US-11-087-099-11638 | Sequence 11638, A |
| 656 | 28 | 50.0 | 791 | 9 | US-10-821-234-962 | Sequence 962, App |
| 657 | 28 | 50.0 | 804 | 11 | US-11-072-512-3161 | Sequence 3161, Ap |
| 658 | 28 | 50.0 | 807 | 11 | US-11-144-630-6 | Sequence 6, Appli |
| 659 | 28 | 50.0 | 837 | 11 | US-11-087-099-9370 | Sequence 9370, Ap |
| 660 | 28 | 50.0 | 858 | 11 | US-11-188-298-8992 | Sequence 8992, Ap |
| 661 | 28 | 50.0 | 892 | 9 | US-10-511-989-8 | Sequence 8, Appli |
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| 663 | 28 | 50.0 | 923 | 11 | US-11-057-058-66 | Sequence 66, Appl |
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| 666 | 28 | 50.0 | 989 | 11 | US-11-079-463-7130 | Sequence 7130, Ap |
| 667 | 28 | 50.0 | 1003 | 11 | US-11-204-755-7 | Sequence 7, Appli |
| 668 | 28 | 50.0 | 1003 | 11 | US-11-204-755-9 | Sequence 9, Appli |
| 669 | 28 | 50.0 | 1003 | 11 | US-11-204-755-11 | Sequence 11, Appl |
| 670 | 28 | 50.0 | 1006 | 9 | US-10-511-989-4 | Sequence 4, Appli |
| 671 | 28 | 50.0 | 1018 | 11 | US-11-079-463-5592 | Sequence 5592, Ap |
| 672 | 28 | 50.0 | 1062 | 9 | US-10-511-989-2 | Sequence 2, Appli |
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| 674 | 28 | 50.0 | 1122 | 9 | US-10-467-657-6112 | Sequence 6112, Ap |
| 675 | 28 | 50.0 | 1892 | 11 | US-11-075-185-6 | Sequence 6, Appli |
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| 678 | 27.5 | 49.1 | 412 | 11 | US-11-096-568A-16738 | Sequence 16738, A |

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| 685 | 27.5 | 49.1 | 556 | 11 | US-11-188-298-12210 | Sequence 12210, A |
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| 688 | 27.5 | 49.1 | 688 | 11 | US-11-188-298-3515 | Sequence 3515, Ap |
| 689 | 27.5 | 49.1 | 796 | 11 | US-11-188-298-5448 | Sequence 5448, Ap |
| 690 | 27.5 | 49.1 | 796 | 11 | US-11-188-298-7476 | Sequence 7476, Ap |
| 691 | 27.5 | 49.1 | 796 | 11 | US-11-188-298-20219 | Sequence 20219, A |
| 692 | 27.5 | 49.1 | 797 | 11 | US-11-188-298-2104 | Sequence 2104, Ap |
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| 695 | 27.5 | 49.1 | 797 | 11 | US-11-188-298-6055 | Sequence 6055, Ap |
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| 698 | 27.5 | 49.1 | 797 | 11 | US-11-188-298-15067 | Sequence 15067, A |
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| 701 | 27.5 | 49.1 | 890 | 11 | US-11-188-298-427 | Sequence 427, App |
| 702 | 27 | 48.2 | 13 | 9 | US-10-511-559-922 | Sequence 922, App |
| 703 | 27 | 48.2 | 13 | 9 | US-10-511-559-923 | Sequence 923, App |
| 704 | 27 | 48.2 | 13 | 9 | US-10-511-559-924 | Sequence 924, App |
| 705 | 27 | 48.2 | 16 | 9 | US-10-909-769-12 | Sequence 12, Appl |
| 706 | 27 | 48.2 | 19 | 9 | US-10-503-575-274 | Sequence 274, App |
| 707 | 27 | 48.2 | 47 | 11 | US-11-235-009-7 | Sequence 7, Appli |
| 708 | 27 | 48.2 | 52 | 11 | US-11-033-105A-13 | Sequence 13, Appl |
| 709 | 27 | 48.2 | 60 | 9 | US-10-502-972-15 | Sequence 15, Appl |
| 710 | 27 | 48.2 | 63 | 9 | US-10-745-586-124 | Sequence 124, App |
| 711 | 27 | 48.2 | 63 | 11 | US-11-079-463-6446 | Sequence 6446, Ap |
| 712 | 27 | 48.2 | 72 | 11 | US-11-188-298-21585 | Sequence 21585, A |
| 713 | 27 | 48.2 | 85 | 11 | US-11-226-869-509 | Sequence 509, App |
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| 716 | 27 | 48.2 | 90 | 9 | US-10-644-807-213 | Sequence 213, App |
| 717 | 27 | 48.2 | 90 | 9 | US-10-644-807-302 | Sequence 302, App |
| 718 | 27 | 48.2 | 90 | 9 | US-10-986-405-340 | Sequence 340, App |
| 719 | 27 | 48.2 | 90 | 9 | US-10-986-405-367 | Sequence 367, App |
| 720 | 27 | 48.2 | 90 | 9 | US-10-986-405-368 | Sequence 368, App |
| 721 | 27 | 48.2 | 92 | 11 | US-11-264-096-1889 | Sequence 1889, Ap |
| 722 | 27 | 48.2 | 92 | 11 | US-11-264-096-1890 | Sequence 1890, Ap |
| 723 | 27 | 48.2 | 102 | 11 | US-11-072-512-2024 | Sequence 2024, Ap |
| 724 | 27 | 48.2 | 103 | 7 | US-09-978-360A-767 | Sequence 767, App |
| 725 | 27 | 48.2 | 103 | 9 | US-10-475-075-245 | Sequence 245, App |
| 726 | 27 | 48.2 | 103 | 9 | US-10-475-075-515 | Sequence 515, App |
| 727 | 27 | 48.2 | 104 | 11 | US-11-072-512-3915 | Sequence 3915, Ap |
| 728 | 27 | 48.2 | 105 | 11 | US-11-079-463-10433 | Sequence 10433, A |
| 729 | 27 | 48.2 | 106 | 11 | US-11-087-099-8467 | Sequence 8467, Ap |
| 730 | 27 | 48.2 | 107 | 11 | US-11-096-568A-24945 | Sequence 24945, A |
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| 732 | 27 | 48.2 | 113 | 11 | US-11-096-568A-1865 | Sequence 1865, Ap |
| 733 | 27 | 48.2 | 114 | 9 | US-10-793-626-256 | Sequence 256, App |
| 734 | 27 | 48.2 | 114 | 9 | US-10-793-626-330 | Sequence 330, App |
| 735 | 27 | 48.2 | 114 | 9 | US-10-793-626-660 | Sequence 660, App |
| 736 | 27 | 48.2 | 114 | 9 | US-10-793-626-766 | Sequence 766, App |
| 737 | 27 | 48.2 | 114 | 9 | US-10-793-626-1238 | Sequence 1238, Ap |
| 738 | 27 | 48.2 | 114 | 9 | US-10-793-626-1556 | Sequence 1556, Ap |
| 739 | 27 | 48.2 | 114 | 9 | US-10-793-626-1584 | Sequence 1584, Ap |
| 740 | 27 | 48.2 | 114 | 9 | US-10-793-626-1706 | Sequence 1706, Ap |
| 741 | 27 | 48.2 | 114 | 9 | US-10-793-626-1984 | Sequence 1984, Ap |
| 742 | 27 | 48.2 | 114 | 9 | US-10-793-626-2032 | Sequence 2032, Ap |
| 743 | 27 | 48.2 | 114 | 9 | US-10-793-626-2522 | Sequence 2522, Ap |
| 744 | 27 | 48.2 | 114 | 9 | US-10-793-626-2678 | Sequence 2678, Ap |
| 745 | 27 | 48.2 | 114 | 11 | US-11-072-512-3339 | Sequence 3339, Ap |
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| 751 | 27 | 48.2 | 122 | 11 | US-11-072-512-2573 | Sequence 2573, Ap |
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| 754 | 27 | 48.2 | 129 | 11 | US-11-096-568A-20300 | Sequence 20300, A |
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| 767 | 27 | 48.2 | 147 | 11 | US-11-043-889-49 | Sequence 49, Appl |
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| 771 | 27 | 48.2 | 154 | 11 | US-11-144-947-428 | Sequence 428, App |
| 772 | 27 | 48.2 | 155 | 11 | US-11-045-004-157 | Sequence 157, App |
| 773 | 27 | 48.2 | 157 | 11 | US-11-096-568A-11814 | Sequence 11814, A |
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| 776 | 27 | 48.2 | 162 | 9 | US-10-195-883-556 | Sequence 556, App |
| 777 | 27 | 48.2 | 162 | 9 | US-10-195-888-556 | Sequence 556, App |
| 778 | 27 | 48.2 | 162 | 9 | US-10-195-889-556 | Sequence 556, App |
| 779 | 27 | 48.2 | 166 | 11 | US-11-079-463-7566 | Sequence 7566, Ap |
| 780 | 27 | 48.2 | 167 | 11 | US-11-087-099-4859 | Sequence 4859, Ap |
| 781 | 27 | 48.2 | 173 | 11 | US-11-096-568A-29046 | Sequence 29046, A |
| 782 | 27 | 48.2 | 173 | 11 | US-11-188-298-10457 | Sequence 10457, A |
| 783 | 27 | 48.2 | 174 | 11 | US-11-072-512-2398 | Sequence 2398, Ap |
| 784 | 27 | 48.2 | 174 | 11 | US-11-264-096-1328 | Sequence 1328, Ap |
| 785 | 27 | 48.2 | 177 | 11 | US-11-079-463-5364 | Sequence 5364, Ap |
| 786 | 27 | 48.2 | 178 | 11 | US-11-087-099-7382 | Sequence 7382, Ap |
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| 789 | 27 | 48.2 | 184 | 11 | US-11-096-568A-19495 | Sequence 19495, A |
| 790 | 27 | 48.2 | 189 | 11 | US-11-188-298-5166 | Sequence 5166, Ap |
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| 798 | 27 | 48.2 | 213 | 11 | US-11-096-568A-16318 | Sequence 16318, A |
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| 801 | 27 | 48.2 | 217 | 11 | US-11-096-568A-2279 | Sequence 2279, Ap |
| 802 | 27 | 48.2 | 217 | 11 | US-11-079-463-6999 | Sequence 6999, Ap |
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| 815 | 27 | 48.2 | 253 | 11 | US-11-096-568A-2860 | Sequence 2860, Ap |
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| 817 | 27 | 48.2 | 254 | 11 | US-11-096-568A-4664 | Sequence 4664, Ap |
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| 821 | 27 | 48.2 | 259 | 9 | US-10-455-772-826 | Sequence 826, App |
| 822 | 27 | 48.2 | 259 | 9 | US-10-455-772-828 | Sequence 828, App |
| 823 | 27 | 48.2 | 259 | 9 | US-10-455-772-830 | Sequence 830, App |
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| 837 | 27 | 48.2 | 294 | 11 | US-11-079-463-7497 | Sequence 7497, Ap |
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| 839 | 27 | 48.2 | 296 | 11 | US-11-246-980-27 | Sequence 27, Appl |
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| 854 | 27 | 48.2 | 327 | 9 | US-10-455-772-814 | Sequence 814, App |
| 855 | 27 | 48.2 | 327 | 9 | US-10-455-772-818 | Sequence 818, App |
| 856 | 27 | 48.2 | 327 | 9 | US-10-455-772-820 | Sequence 820, App |
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| 863 | 27 | 48.2 | 340 | 11 | US-11-087-099-7336 | Sequence 7336, Ap |
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| 869 | 27 | 48.2 | 349 | 11 | US-11-188-298-761 | Sequence 761, App |
| 870 | 27 | 48.2 | 349 | 11 | US-11-188-298-6592 | Sequence 6592, Ap |
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| 873 | 27 | 48.2 | 349 | 11 | US-11-188-298-16372 | Sequence 16372, A |
| 874 | 27 | 48.2 | 349 | 11 | US-11-188-298-16453 | Sequence 16453, A |
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| 876 | 27 | 48.2 | 349 | 11 | US-11-188-298-19267 | Sequence 19267, A |
| 877 | 27 | 48.2 | 349 | 11 | US-11-188-298-20192 | Sequence 20192, A |
| 878 | 27 | 48.2 | 349 | 11 | US-11-188-298-21581 | Sequence 21581, A |
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| 893 | 27 | 48.2 | 370 | 11 | US-11-096-568A-13041 | Sequence 13041, A |
| 894 | 27 | 48.2 | 370 | 11 | US-11-096-568A-17170 | Sequence 17170, A |
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| 944 | 27 | 48.2 | 431 | 11 | US-11-079-463-9769 | Sequence 9769, Ap |
| 945 | 27 | 48.2 | 431 | 11 | US-11-079-463-9824 | Sequence 9824, Ap |
| 946 | 27 | 48.2 | 431 | 11 | US-11-079-463-10012 | Sequence 10012, A |
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| 955 | 27 | 48.2 | 440 | 11 | US-11-103-195-134 | Sequence 134, App |
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| 958 | 27 | 48.2 | 447 | 11 | US-11-188-298-12635 | Sequence 12635, A |
| 959 | 27 | 48.2 | 450 | 11 | US-11-079-463-6904 | Sequence 6904, Ap |
| 960 | 27 | 48.2 | 456 | 9 | US-10-467-657-5786 | Sequence 5786, Ap |
| 961 | 27 | 48.2 | 456 | 11 | US-11-188-298-4865 | Sequence 4865, Ap |
| 962 | 27 | 48.2 | 457 | 11 | US-11-188-298-1120 | Sequence 1120, Ap |
| 963 | 27 | 48.2 | 457 | 11 | US-11-188-298-10973 | Sequence 10973, A |
| 964 | 27 | 48.2 | 458 | 11 | US-11-096-568A-15478 | Sequence 15478, A |
| 965 | 27 | 48.2 | 459 | 11 | US-11-188-298-4704 | Sequence 4704, Ap |
| 966 | 27 | 48.2 | 459 | 11 | US-11-188-298-16548 | Sequence 16548, A |
| 967 | 27 | 48.2 | 461 | 11 | US-11-045-004-246 | Sequence 246, App |
| 968 | 27 | 48.2 | 467 | 9 | US-10-821-234-1688 | Sequence 1688, Ap |
| 969 | 27 | 48.2 | 469 | 9 | US-10-330-773-292 | Sequence 292, App |
| 970 | 27 | 48.2 | 470 | 9 | US-10-218-784-68 | Sequence 68, Appl |

| | | | | | | |
|---|---|---|---|---|---|---|
| 971 | 27 | 48.2 | 470 | 9 | US-10-219-061-68 | Sequence 68, Appl |
| 972 | 27 | 48.2 | 470 | 9 | US-10-219-062-68 | Sequence 68, Appl |
| 973 | 27 | 48.2 | 470 | 9 | US-10-219-064-68 | Sequence 68, Appl |
| 974 | 27 | 48.2 | 470 | 9 | US-10-233-134-68 | Sequence 68, Appl |
| 975 | 27 | 48.2 | 470 | 11 | US-11-264-096-1260 | Sequence 1260, Ap |
| 976 | 27 | 48.2 | 471 | 11 | US-11-087-099-474 | Sequence 474, App |
| 977 | 27 | 48.2 | 473 | 11 | US-11-188-298-19070 | Sequence 19070, A |
| 978 | 27 | 48.2 | 474 | 11 | US-11-188-298-14501 | Sequence 14501, A |
| 979 | 27 | 48.2 | 477 | 11 | US-11-188-298-15141 | Sequence 15141, A |
| 980 | 27 | 48.2 | 478 | 11 | US-11-096-568A-18016 | Sequence 18016, A |
| 981 | 27 | 48.2 | 485 | 11 | US-11-264-096-1259 | Sequence 1259, Ap |
| 982 | 27 | 48.2 | 486 | 11 | US-11-096-568A-28374 | Sequence 28374, A |
| 983 | 27 | 48.2 | 487 | 11 | US-11-188-298-6934 | Sequence 6934, Ap |
| 984 | 27 | 48.2 | 490 | 11 | US-11-051-724-32 | Sequence 32, Appl |
| 985 | 27 | 48.2 | 492 | 11 | US-11-096-568A-19249 | Sequence 19249, A |
| 986 | 27 | 48.2 | 492 | 11 | US-11-188-298-6372 | Sequence 6372, Ap |
| 987 | 27 | 48.2 | 492 | 11 | US-11-188-298-10998 | Sequence 10998, A |
| 988 | 27 | 48.2 | 492 | 11 | US-11-188-298-18940 | Sequence 18940, A |
| 989 | 27 | 48.2 | 493 | 11 | US-11-096-568A-11400 | Sequence 11400, A |
| 990 | 27 | 48.2 | 494 | 11 | US-11-188-298-21345 | Sequence 21345, A |
| 991 | 27 | 48.2 | 495 | 11 | US-11-096-568A-30615 | Sequence 30615, A |
| 992 | 27 | 48.2 | 500 | 11 | US-11-096-568A-11399 | Sequence 11399, A |
| 993 | 27 | 48.2 | 500 | 11 | US-11-188-298-14951 | Sequence 14951, A |
| 994 | 27 | 48.2 | 502 | 11 | US-11-079-463-6523 | Sequence 6523, Ap |
| 995 | 27 | 48.2 | 503 | 11 | US-11-188-298-6812 | Sequence 6812, Ap |
| 996 | 27 | 48.2 | 508 | 11 | US-11-087-099-10814 | Sequence 10814, A |
| 997 | 27 | 48.2 | 509 | 11 | US-11-096-568A-11398 | Sequence 11398, A |
| 998 | 27 | 48.2 | 512 | 11 | US-11-096-568A-15477 | Sequence 15477, A |
| 999 | 27 | 48.2 | 515 | 9 | US-10-821-234-1211 | Sequence 1211, Ap |
| 1000 | 27 | 48.2 | 516 | 11 | US-11-188-298-2062 | Sequence 2062, Ap |

ALIGNMENTS

RESULT 1
US-10-530-061-42
; Sequence 42, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-42

Query Match 100.0%; Score 56; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RFHNIRGRW 9
||||||||| 
Db 1 RFHNIRGRW 9

RESULT 2
US-10-530-061-777
; Sequence 777, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 777
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-777

Query Match 100.0%; Score 56; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RFHNIRGRW 9
||||||||| 
Db 1 RFHNIRGRW 9

RESULT 3
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-13

Query Match 100.0%; Score 56; DB 9; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.0032;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RFHNIRGRW 9
||||||||| 
Db 124 RFHNIRGRW 132

RESULT 4
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
; APPLICANT: HealthBanks Biotech CO. LTD.
; TITLE OF INVENTION: Fusion protein for inhibiting cervcal cancer

```
;  FILE REFERENCE: P7819/0613
;  CURRENT APPLICATION NUMBER: US/11/206,138
;  CURRENT FILING DATE:  2005-08-18
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
;    LENGTH: 158
;    TYPE: PRT
;    ORGANISM: Human papillomavirus type 16
US-11-206-138-3

  Query Match             100.0%;  Score 56;  DB 11;  Length 158;
  Best Local Similarity   100.0%;  Pred. No. 0.0033;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        131 RFHNIRGRW 139


RESULT 5
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;    LENGTH: 248
;    TYPE: PRT
;    ORGANISM: Human papillomavirus type 16
US-10-530-253-1

  Query Match             100.0%;  Score 56;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.0051;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        124 RFHNIRGRW 132


RESULT 6
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;    LENGTH: 248
;    TYPE: PRT
;    ORGANISM: Human papillomavirus type 16
US-10-530-253-3

  Query Match             100.0%;  Score 56;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.0051;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        124 RFHNIRGRW 132


RESULT 7
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;    LENGTH: 248
;    TYPE: PRT
;    ORGANISM: Human papillomavirus type 16
US-10-530-253-5

  Query Match             100.0%;  Score 56;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.0051;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        124 RFHNIRGRW 132


RESULT 8
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
;    LENGTH: 248
;    TYPE: PRT
;    ORGANISM: Human papillomavirus type 16
US-10-530-253-7
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  Query Match           100.0%;  Score 56;  DB 9;  Length 248;
  Best Local Similarity  100.0%;  Pred. No. 0.0051;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        221 RFHNIRGRW 229


RESULT 9
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-9

  Query Match           100.0%;  Score 56;  DB 9;  Length 248;
  Best Local Similarity  100.0%;  Pred. No. 0.0051;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        221 RFHNIRGRW 229


RESULT 10
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-11

  Query Match           100.0%;  Score 56;  DB 9;  Length 248;
  Best Local Similarity  100.0%;  Pred. No. 0.0051;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        221 RFHNIRGRW 229


RESULT 11
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
;  APPLICANT: PANG, XIAOWU
;  TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
;  TITLE OF INVENTION:  RECOMBINANT REPLICON
;  FILE REFERENCE: 116620-003
;  CURRENT APPLICATION NUMBER: US/11/192,923A
;  CURRENT FILING DATE:  2005-07-29
;  PRIOR APPLICATION NUMBER: CN 03115272.4
;  PRIOR FILING DATE: 2003-01-30
;  PRIOR APPLICATION NUMBER: CN 03115273.2
;  PRIOR FILING DATE: 2003-01-30
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
;   LENGTH: 256
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-11-192-923A-2

  Query Match           100.0%;  Score 56;  DB 11;  Length 256;
  Best Local Similarity  100.0%;  Pred. No. 0.0053;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||||||||
Db        229 RFHNIRGRW 237


RESULT 12
US-10-530-061-80
; Sequence 80, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 80
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-80

  Query Match           94.6%;  Score 53;  DB 9;  Length 9;
  Best Local Similarity  88.9%;  Pred. No. 1.9e+05;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |:|||||||
Db          1 RYHNIRGRW 9


RESULT 13
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US-10-530-061-805
; Sequence 805, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 805
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-805

  Query Match             94.6%;  Score 53;  DB 9;  Length 9;
  Best Local Similarity   88.9%;  Pred. No. 1.9e+05;
  Matches    8;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |:|||||||
Db          1 RYHNIRGRW 9


RESULT 14
US-10-530-061-44
; Sequence 44, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 44
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-44

  Query Match             89.3%;  Score 50;  DB 9;  Length 9;
  Best Local Similarity   88.9%;  Pred. No. 1.9e+05;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              ||||| |||
Db          1 RFHNISGRW 9


RESULT 15
US-10-530-061-779
; Sequence 779, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 779
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-779

  Query Match             89.3%;  Score 50;  DB 9;  Length 9;
  Best Local Similarity   88.9%;  Pred. No. 1.9e+05;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              ||||| |||
Db          1 RFHNISGRW 9


RESULT 16
US-10-530-253-22
; Sequence 22, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 22
;   LENGTH: 148
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 52
US-10-530-253-22

  Query Match             89.3%;  Score 50;  DB 9;  Length 148;
  Best Local Similarity   88.9%;  Pred. No. 0.04;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              ||||| |||
Db        124 RFHNIMGRW 132


RESULT 17
US-10-530-253-17
; Sequence 17, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
```

```
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 33
US-10-530-253-17

  Query Match             89.3%;  Score 50;  DB 9;  Length 149;
  Best Local Similarity   88.9%;  Pred. No. 0.04;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              ||||| |||
Db        124 RFHNISGRW 132


RESULT 18
US-10-530-253-24
; Sequence 24, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 24
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 58
US-10-530-253-24

  Query Match             89.3%;  Score 50;  DB 9;  Length 149;
  Best Local Similarity   88.9%;  Pred. No. 0.04;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              ||||| |||
Db        124 RFHNISGRW 132


RESULT 19
US-10-530-253-16
; Sequence 16, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 31
US-10-530-253-16

  Query Match             87.5%;  Score 49;  DB 9;  Length 149;
  Best Local Similarity   88.9%;  Pred. No. 0.061;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              ||||| |||
Db        124 RFHNIGGRW 132


RESULT 20
US-10-530-253-18
; Sequence 18, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
;   LENGTH: 149
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 35
US-10-530-253-18

  Query Match             87.5%;  Score 49;  DB 9;  Length 149;
  Best Local Similarity   88.9%;  Pred. No. 0.061;
  Matches    8;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              ||||| |||
Db        124 RFHNIGGRW 132


RESULT 21
US-10-530-061-90
; Sequence 90, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
```

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;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 90
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-90

  Query Match             83.9%;  Score 47;  DB 9;  Length 9;
  Best Local Similarity   77.8%;  Pred. No. 1.9e+05;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |:||| |||
Db          1 RYHNISGRW 9


RESULT 22
US-10-530-061-100
; Sequence 100, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 100
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-100

  Query Match             83.9%;  Score 47;  DB 9;  Length 9;
  Best Local Similarity   77.8%;  Pred. No. 1.9e+05;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |:||| |||
Db          1 RYHNIMGRW 9


RESULT 23
US-10-530-061-819
; Sequence 819, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 819
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-819

  Query Match             83.9%;  Score 47;  DB 9;  Length 9;
  Best Local Similarity   77.8%;  Pred. No. 1.9e+05;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |:||| |||
Db          1 RYHNISGRW 9


RESULT 24
US-10-530-061-833
; Sequence 833, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 833
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-833

  Query Match             83.9%;  Score 47;  DB 9;  Length 9;
  Best Local Similarity   77.8%;  Pred. No. 1.9e+05;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |:||| |||
Db          1 RYHNIMGRW 9


RESULT 25
US-10-530-061-81
; Sequence 81, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 81
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
```

US-10-530-061-81

Query Match 82.1%; Score 46; DB 9; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.9e+05;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RFHNIRGRW 9
||||||||:
Db 1 RFHNIRGRF 9

RESULT 26
US-10-530-061-806
; Sequence 806, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 806
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-806

Query Match 82.1%; Score 46; DB 9; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.9e+05;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RFHNIRGRW 9
||||||||:
Db 1 RFHNIRGRF 9

RESULT 27
US-10-530-061-509
; Sequence 509, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 509
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-509

Query Match 80.4%; Score 45; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RFHNIRGR 8
||||||||
Db 3 RFHNIRGR 10

RESULT 28
US-10-530-253-21
; Sequence 21, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 21
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 51
US-10-530-253-21

Query Match 78.6%; Score 44; DB 9; Length 151;
Best Local Similarity 77.8%; Pred. No. 0.52;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 RFHNIRGRW 9
||| | |||
Db 124 RFHEIAGRW 132

RESULT 29
US-10-530-253-39
; Sequence 39, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 39
; LENGTH: 152
; TYPE: PRT
; ORGANISM: Human papillomavirus
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(152)
; OTHER INFORMATION: where Xaa is any amino acid
US-10-530-253-39

Query Match 78.6%; Score 44; DB 9; Length 152;
Best Local Similarity 77.8%; Pred. No. 0.52;

```
  Matches    7;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              ||||| | |
Db        126 RFHNIXGXW 134


RESULT 30
US-10-530-061-510
; Sequence 510, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 510
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-510

  Query Match             75.0%;  Score 42;  DB 9;  Length 10;
  Best Local Similarity   87.5%;  Pred. No. 0.087;
  Matches    7;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGR 8
              |||||||:
Db          3 RFHNIRGK 10


RESULT 31
US-10-530-061-101
; Sequence 101, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 101
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-101

  Query Match             71.4%;  Score 40;  DB 9;  Length 9;
  Best Local Similarity   77.8%;  Pred. No. 1.9e+05;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              ||||| ||:
Db          1 RFHNIMGRF 9


RESULT 32
US-10-530-061-108
; Sequence 108, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 108
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-108

  Query Match             71.4%;  Score 40;  DB 9;  Length 9;
  Best Local Similarity   77.8%;  Pred. No. 1.9e+05;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              ||||| ||:
Db          1 RFHNISGRF 9


RESULT 33
US-10-530-061-834
; Sequence 834, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 834
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-834

  Query Match             71.4%;  Score 40;  DB 9;  Length 9;
  Best Local Similarity   77.8%;  Pred. No. 1.9e+05;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              ||||| ||:
Db          1 RFHNIMGRF 9
```

```
RESULT 34
US-10-530-061-845
; Sequence 845, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 845
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-845

  Query Match             71.4%;  Score 40;  DB 9;  Length 9;
  Best Local Similarity   77.8%;  Pred. No. 1.9e+05;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              ||||| ||:
Db          1 RFHNISGRF 9


RESULT 35
US-11-100-352-2
; Sequence 2, Application US/11100352
; Publication No. US20050266016A1
; GENERAL INFORMATION:
;  APPLICANT: Stephens, Richard S.
;  APPLICANT:  Kubo, Aya
;  TITLE OF INVENTION: PorinB (PorB) as a Therapeutic Target
;  TITLE OF INVENTION:  for Prevention and Treatment of Infection by  Chlamydia
;  FILE REFERENCE: BERK-006
;  CURRENT APPLICATION NUMBER: US/11/100,352
;  CURRENT FILING DATE:  2005-04-05
;  PRIOR APPLICATION NUMBER: US/10/155,947
;  PRIOR FILING DATE: 2002-05-24
;  PRIOR APPLICATION NUMBER: US/09/775,195
;  PRIOR FILING DATE: 2001-01-31
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 340
;   TYPE: PRT
;   ORGANISM: C. trachomatis
US-11-100-352-2

  Query Match             69.6%;  Score 39;  DB 11;  Length 340;
  Best Local Similarity   62.5%;  Pred. No. 9.5;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 FHNIRGRW 9
              |:|: |||
Db        319 FYNVEGRW 326


RESULT 36
US-11-100-352-5
; Sequence 5, Application US/11100352
; Publication No. US20050266016A1
; GENERAL INFORMATION:
;  APPLICANT: Stephens, Richard S.
;  APPLICANT:  Kubo, Aya
;  TITLE OF INVENTION: PorinB (PorB) as a Therapeutic Target
;  TITLE OF INVENTION:  for Prevention and Treatment of Infection by  Chlamydia
;  FILE REFERENCE: BERK-006
;  CURRENT APPLICATION NUMBER: US/11/100,352
;  CURRENT FILING DATE:  2005-04-05
;  PRIOR APPLICATION NUMBER: US/10/155,947
;  PRIOR FILING DATE: 2002-05-24
;  PRIOR APPLICATION NUMBER: US/09/775,195
;  PRIOR FILING DATE: 2001-01-31
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
;   LENGTH: 340
;   TYPE: PRT
;   ORGANISM: C. trachomatis (L2)
US-11-100-352-5

  Query Match             69.6%;  Score 39;  DB 11;  Length 340;
  Best Local Similarity   62.5%;  Pred. No. 9.5;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 FHNIRGRW 9
              |:|: |||
Db        319 FYNVEGRW 326


RESULT 37
US-11-100-352-6
; Sequence 6, Application US/11100352
; Publication No. US20050266016A1
; GENERAL INFORMATION:
;  APPLICANT: Stephens, Richard S.
;  APPLICANT:  Kubo, Aya
;  TITLE OF INVENTION: PorinB (PorB) as a Therapeutic Target
;  TITLE OF INVENTION:  for Prevention and Treatment of Infection by  Chlamydia
;  FILE REFERENCE: BERK-006
;  CURRENT APPLICATION NUMBER: US/11/100,352
;  CURRENT FILING DATE:  2005-04-05
;  PRIOR APPLICATION NUMBER: US/10/155,947
;  PRIOR FILING DATE: 2002-05-24
;  PRIOR APPLICATION NUMBER: US/09/775,195
;  PRIOR FILING DATE: 2001-01-31
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
;   LENGTH: 340
;   TYPE: PRT
;   ORGANISM: C. trachomatis (C)
US-11-100-352-6

  Query Match             69.6%;  Score 39;  DB 11;  Length 340;
  Best Local Similarity   62.5%;  Pred. No. 9.5;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 FHNIRGRW 9
              |:|: |||
Db        319 FYNVEGRW 326


RESULT 38
US-11-103-957-2
; Sequence 2, Application US/11103957
; Publication No. US20050281847A1
; GENERAL INFORMATION:
;  APPLICANT: Berthet, Francois-Xavier Jacques
;  APPLICANT:  Lobet, Yves
;  APPLICANT:  Poolman, Jan
;  APPLICANT:  Verlant, Vincent Georges Christian Louis
;  TITLE OF INVENTION: Vaccine Composition
;  FILE REFERENCE: B45261
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;  CURRENT APPLICATION NUMBER: US/11/103,957
;  CURRENT FILING DATE:  2005-04-12
;  PRIOR APPLICATION NUMBER: US/10/467,534
;  PRIOR FILING DATE: 2004-02-03
;  PRIOR APPLICATION NUMBER: PCT/EP02/01356
;  PRIOR FILING DATE: 2002-02-08
;  PRIOR APPLICATION NUMBER: GB 0103169.9
;  PRIOR FILING DATE: 2001-02-08
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 340
;   TYPE: PRT
;   ORGANISM: Chlamydia trachomatis
US-11-103-957-2

  Query Match             69.6%;  Score 39;  DB 11;  Length 340;
  Best Local Similarity   62.5%;  Pred. No. 9.5;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 FHNIRGRW 9
              |:|: |||
Db        319 FYNVEGRW 326


RESULT 39
US-11-103-957-17
; Sequence 17, Application US/11103957
; Publication No. US20050281847A1
; GENERAL INFORMATION:
;  APPLICANT: Berthet, Francois-Xavier Jacques
;  APPLICANT:  Lobet, Yves
;  APPLICANT:  Poolman, Jan
;  APPLICANT:  Verlant, Vincent Georges Christian Louis
;  TITLE OF INVENTION: Vaccine Composition
;  FILE REFERENCE: B45261
;  CURRENT APPLICATION NUMBER: US/11/103,957
;  CURRENT FILING DATE:  2005-04-12
;  PRIOR APPLICATION NUMBER: US/10/467,534
;  PRIOR FILING DATE: 2004-02-03
;  PRIOR APPLICATION NUMBER: PCT/EP02/01356
;  PRIOR FILING DATE: 2002-02-08
;  PRIOR APPLICATION NUMBER: GB 0103169.9
;  PRIOR FILING DATE: 2001-02-08
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 17
;   LENGTH: 340
;   TYPE: PRT
;   ORGANISM: Chlamydia trachomatis
US-11-103-957-17

  Query Match             69.6%;  Score 39;  DB 11;  Length 340;
  Best Local Similarity   62.5%;  Pred. No. 9.5;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 FHNIRGRW 9
              |:|: |||
Db        319 FYNVEGRW 326


RESULT 40
US-11-018-868-38
; Sequence 38, Application US/11018868
; Publication No. US20060034871A1
; GENERAL INFORMATION:
;  APPLICANT: Chiron Corporation
;  APPLICANT:  Grandi, Guido
;  APPLICANT:  Ratti, Guilio
;  APPLICANT:  Bonci, Alessandro
;  APPLICANT:  Finco, Oretta
;  TITLE OF INVENTION: Immunogenic Compositions for Chlamydia trachomatis
;  FILE REFERENCE: 002441.00099 (PP23152.001)
;  CURRENT APPLICATION NUMBER: US/11/018,868
;  CURRENT FILING DATE:  2004-12-22
;  NUMBER OF SEQ ID NOS: 186
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 38
;   LENGTH: 340
;   TYPE: PRT
;   ORGANISM: Chlamydia trachomatis
US-11-018-868-38

  Query Match             69.6%;  Score 39;  DB 11;  Length 340;
  Best Local Similarity   62.5%;  Pred. No. 9.5;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 FHNIRGRW 9
              |:|: |||
Db        319 FYNVEGRW 326


RESULT 41
US-11-079-463-10242
; Sequence 10242, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PATH00-03DIV2
;  CURRENT APPLICATION NUMBER: US/11/079,463
;  CURRENT FILING DATE:  2005-03-14
;  PRIOR APPLICATION NUMBER: US 60/128,705
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/540,209
;  PRIOR FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 10242
;   LENGTH: 840
;   TYPE: PRT
;   ORGANISM: B.fragilis
US-11-079-463-10242

  Query Match             66.1%;  Score 37;  DB 11;  Length 840;
  Best Local Similarity   75.0%;  Pred. No. 53;
  Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 FHNIRGRW 9
              ||||  ||
Db        445 FHNIARRW 452


RESULT 42
US-11-079-463-7962
; Sequence 7962, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
;  TITLE OF INVENTION:  FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PATH00-03DIV2
;  CURRENT APPLICATION NUMBER: US/11/079,463
;  CURRENT FILING DATE:  2005-03-14
;  PRIOR APPLICATION NUMBER: US 60/128,705
;  PRIOR FILING DATE: 1999-04-09
;  PRIOR APPLICATION NUMBER: US 09/540,209
;  PRIOR FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 7962
;   LENGTH: 1087
;   TYPE: PRT
;   ORGANISM: B.fragilis
US-11-079-463-7962

  Query Match             66.1%;  Score 37;  DB 11;  Length 1087;
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Best Local Similarity 75.0%; Pred. No. 68;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```
Qy          2 FHNIRGRW 9
              ||||  ||
Db        440 FHNIARRW 447
```

RESULT 43
US-11-079-463-8973
; Sequence 8973, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 8973
; LENGTH: 1095
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-8973

Query Match 66.1%; Score 37; DB 11; Length 1095;
Best Local Similarity 75.0%; Pred. No. 69;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```
Qy          2 FHNIRGRW 9
              ||||  ||
Db        449 FHNIARRW 456
```

RESULT 44
US-10-530-061-531
; Sequence 531, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 531
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-531

Query Match 64.3%; Score 36; DB 9; Length 10;
Best Local Similarity 66.7%; Pred. No. 1.1;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```
Qy          1 RFHNIRGRW 9
              ||||| | :
Db          1 RFHNIAGHY 9
```

RESULT 45
US-10-530-253-15
; Sequence 15, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-530-253-15

Query Match 64.3%; Score 36; DB 9; Length 158;
Best Local Similarity 66.7%; Pred. No. 16;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```
Qy          1 RFHNIRGRW 9
              ||||| | :
Db        126 RFHNIAGHY 134
```

RESULT 46
US-11-079-463-6397
; Sequence 6397, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRAC
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 6397
; LENGTH: 904
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-6397

Query Match 64.3%; Score 36; DB 11; Length 904;
Best Local Similarity 62.5%; Pred. No. 87;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```
Qy          2 FHNIRGRW 9
              |||:  ||
Db        439 FHNVARRW 446
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RESULT 47
US-10-530-061-85
; Sequence 85, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT

```
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 85
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-85

  Query Match             62.5%;  Score 35;  DB 9;  Length 9;
  Best Local Similarity   66.7%;  Pred. No. 1.9e+05;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              ||||| | :
Db          1 RFHNIAGHF 9


RESULT 48
US-10-530-061-813
; Sequence 813, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
;  APPLICANT: SIDNEY, JOHN
;  APPLICANT:  SOUTHWOOD, SCOTT
;  APPLICANT:  SETTE, ALESSANDRO
;  TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;  FILE REFERENCE: 2060.033US02/EKS/M-M
;  CURRENT APPLICATION NUMBER: US/10/530,061
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31308
;  PRIOR FILING DATE: 2003-10-03
;  PRIOR APPLICATION NUMBER: 60/416,207
;  PRIOR FILING DATE: 2002-10-03
;  PRIOR APPLICATION NUMBER: 60/417,269
;  PRIOR FILING DATE: 2002-10-08
;  NUMBER OF SEQ ID NOS: 2503
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 813
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-530-061-813

  Query Match             62.5%;  Score 35;  DB 9;  Length 9;
  Best Local Similarity   66.7%;  Pred. No. 1.9e+05;
  Matches    6;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              ||||| | :
Db          1 RFHNIAGHF 9


RESULT 49
US-11-130-559-4
; Sequence 4, Application US/11130559
; Publication No. US20060024784A1
; GENERAL INFORMATION:
;  APPLICANT: Wang, Huaming
;  APPLICANT:  Bodie, Elizabeth A.
;  TITLE OF INVENTION: Phenol Oxidizing Enzymes
;  FILE REFERENCE: GC561-3
;  CURRENT APPLICATION NUMBER: US/11/130,559
;  CURRENT FILING DATE:  2005-05-17
;  PRIOR APPLICATION NUMBER: US 09/220,871
;  PRIOR FILING DATE: 1998-12-23
;  PRIOR APPLICATION NUMBER: US 09/338,723
;  PRIOR FILING DATE: 1999-06-23
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
;   LENGTH: 627
;   TYPE: PRT
;   ORGANISM: Bipolaris spicifera
US-11-130-559-4

  Query Match             62.5%;  Score 35;  DB 11;  Length 627;
  Best Local Similarity   55.6%;  Pred. No. 94;
  Matches    5;  Conservative    0;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 RFHNIRGRW 9
              |||   | |
Db        409 RFHRTNGEW 417


RESULT 50
US-10-530-253-25
; Sequence 25, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 25
;   LENGTH: 160
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 59
US-10-530-253-25

  Query Match             60.7%;  Score 34;  DB 9;  Length 160;
  Best Local Similarity   85.7%;  Pred. No. 38;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RFHNIRG 7
              ||||| |
Db        126 RFHNIAG 132


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OM protein - protein search, using sw model

Run on: May 5, 2006, 03:13:35 ; Search time 21 Seconds
(without alignments)
35.432 Million cell updates/sec

Title: US-08-170-344-74
Perfect score: 49
Sequence: 1 RAHYNIVTF 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/1/iaa/5_COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/6_COMB.pep:*
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4: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
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6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
|---|---|---|---|---|---|---|
| 1 | 49 | 100.0 | 9 | 2 | US-08-159-339A-138 | Sequence 138, App |
| 2 | 49 | 100.0 | 9 | 2 | US-09-593-870A-25 | Sequence 25, Appl |
| 3 | 49 | 100.0 | 9 | 2 | US-09-000-003A-5 | Sequence 5, Appli |
| 4 | 49 | 100.0 | 9 | 2 | US-09-501-097A-5 | Sequence 5, Appli |
| 5 | 49 | 100.0 | 9 | 2 | US-10-365-908-48 | Sequence 48, Appl |
| 6 | 49 | 100.0 | 10 | 2 | US-10-365-908-32 | Sequence 32, Appl |
| 7 | 49 | 100.0 | 14 | 2 | US-08-075-541D-4 | Sequence 4, Appli |
| 8 | 49 | 100.0 | 14 | 2 | US-08-075-541D-29 | Sequence 29, Appl |
| 9 | 49 | 100.0 | 14 | 2 | US-08-075-541D-56 | Sequence 56, Appl |
| 10 | 49 | 100.0 | 15 | 2 | US-08-075-541D-18 | Sequence 18, Appl |
| 11 | 49 | 100.0 | 15 | 2 | US-09-601-729-279 | Sequence 279, App |
| 12 | 49 | 100.0 | 17 | 2 | US-08-075-541D-25 | Sequence 25, Appl |
| 13 | 49 | 100.0 | 17 | 2 | US-09-980-523A-16 | Sequence 16, Appl |
| 14 | 49 | 100.0 | 18 | 2 | US-08-075-541D-30 | Sequence 30, Appl |
| 15 | 49 | 100.0 | 19 | 2 | US-08-075-541D-3 | Sequence 3, Appli |
| 16 | 49 | 100.0 | 20 | 1 | US-08-934-915-48 | Sequence 48, Appl |
| 17 | 49 | 100.0 | 20 | 1 | US-08-934-915-155 | Sequence 155, App |
| 18 | 49 | 100.0 | 20 | 2 | US-08-075-541D-10 | Sequence 10, Appl |
| 19 | 49 | 100.0 | 20 | 2 | US-09-980-177A-73 | Sequence 73, Appl |
| 20 | 49 | 100.0 | 26 | 2 | US-08-075-541D-20 | Sequence 20, Appl |
| 21 | 49 | 100.0 | 30 | 1 | US-08-934-915-52 | Sequence 52, Appl |
| 22 | 49 | 100.0 | 30 | 2 | US-09-486-394-3 | Sequence 3, Appli |
| 23 | 49 | 100.0 | 32 | 2 | US-08-075-541D-7 | Sequence 7, Appli |
| 24 | 49 | 100.0 | 32 | 2 | US-08-075-541D-8 | Sequence 8, Appli |
| 25 | 49 | 100.0 | 38 | 2 | US-09-501-097A-6 | Sequence 6, Appli |
| 26 | 49 | 100.0 | 59 | 2 | US-09-390-027-6 | Sequence 6, Appli |
| 27 | 49 | 100.0 | 98 | 1 | US-08-406-248-6 | Sequence 6, Appli |
| 28 | 49 | 100.0 | 98 | 2 | US-08-075-541D-42 | Sequence 42, Appl |
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| 31 | 49 | 100.0 | 98 | 2 | US-09-820-764-4 | Sequence 4, Appli |
| 32 | 49 | 100.0 | 98 | 2 | US-09-613-303-8 | Sequence 8, Appli |
| 33 | 49 | 100.0 | 98 | 2 | US-09-566-420-19 | Sequence 19, Appl |
| 34 | 49 | 100.0 | 98 | 2 | US-09-986-118A-4 | Sequence 4, Appli |
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| 36 | 49 | 100.0 | 98 | 2 | US-09-824-017-4 | Sequence 4, Appli |
| 37 | 49 | 100.0 | 98 | 2 | US-10-267-311-8 | Sequence 8, Appli |
| 38 | 49 | 100.0 | 98 | 2 | US-10-201-764-19 | Sequence 19, Appl |
| 39 | 49 | 100.0 | 98 | 2 | US-09-637-746-3 | Sequence 3, Appli |
| 40 | 49 | 100.0 | 98 | 2 | US-09-501-097A-7 | Sequence 7, Appli |
| 41 | 49 | 100.0 | 98 | 2 | US-09-980-523A-12 | Sequence 12, Appl |
| 42 | 49 | 100.0 | 121 | 2 | US-09-613-303-12 | Sequence 12, Appl |
| 43 | 49 | 100.0 | 121 | 2 | US-10-267-311-12 | Sequence 12, Appl |
| 44 | 49 | 100.0 | 172 | 2 | US-08-860-165-12 | Sequence 12, Appl |
| 45 | 49 | 100.0 | 172 | 2 | US-08-860-165-14 | Sequence 14, Appl |
| 46 | 49 | 100.0 | 172 | 2 | US-09-359-382-12 | Sequence 12, Appl |
| 47 | 49 | 100.0 | 172 | 2 | US-09-359-382-14 | Sequence 14, Appl |
| 48 | 49 | 100.0 | 185 | 2 | US-09-462-993-2 | Sequence 2, Appli |
| 49 | 49 | 100.0 | 198 | 2 | US-09-613-303-35 | Sequence 35, Appl |
| 50 | 49 | 100.0 | 198 | 2 | US-10-267-311-35 | Sequence 35, Appl |
| 51 | 49 | 100.0 | 220 | 2 | US-09-485-885-1 | Sequence 1, Appli |
| 52 | 49 | 100.0 | 220 | 2 | US-09-485-885-8 | Sequence 8, Appli |
| 53 | 49 | 100.0 | 239 | 2 | US-09-485-885-12 | Sequence 12, Appl |
| 54 | 49 | 100.0 | 253 | 1 | US-08-459-818-20 | Sequence 20, Appl |
| 55 | 49 | 100.0 | 253 | 1 | US-08-889-666-20 | Sequence 20, Appl |
| 56 | 49 | 100.0 | 253 | 1 | US-08-465-078-20 | Sequence 20, Appl |
| 57 | 49 | 100.0 | 253 | 1 | US-08-725-776-20 | Sequence 20, Appl |
| 58 | 49 | 100.0 | 253 | 1 | US-08-488-062-20 | Sequence 20, Appl |
| 59 | 49 | 100.0 | 263 | 1 | US-08-117-083-9 | Sequence 9, Appli |
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| 63 | 49 | 100.0 | 287 | 2 | US-09-501-097A-25 | Sequence 25, Appl |
| 64 | 49 | 100.0 | 295 | 2 | US-09-613-303-33 | Sequence 33, Appl |
| 65 | 49 | 100.0 | 295 | 2 | US-10-267-311-33 | Sequence 33, Appl |
| 66 | 49 | 100.0 | 324 | 2 | US-09-613-303-25 | Sequence 25, Appl |
| 67 | 49 | 100.0 | 324 | 2 | US-10-267-311-25 | Sequence 25, Appl |
| 68 | 49 | 100.0 | 371 | 2 | US-09-485-885-6 | Sequence 6, Appli |
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| 70 | 49 | 100.0 | 420 | 2 | US-09-501-097A-22 | Sequence 22, Appl |
| 71 | 49 | 100.0 | 493 | 2 | US-09-613-303-19 | Sequence 19, Appl |
| 72 | 49 | 100.0 | 493 | 2 | US-10-267-311-19 | Sequence 19, Appl |
| 73 | 49 | 100.0 | 639 | 2 | US-09-613-303-17 | Sequence 17, Appl |
| 74 | 49 | 100.0 | 639 | 2 | US-10-267-311-17 | Sequence 17, Appl |
| 75 | 49 | 100.0 | 641 | 2 | US-09-613-303-51 | Sequence 51, Appl |
| 76 | 49 | 100.0 | 641 | 2 | US-10-267-311-51 | Sequence 51, Appl |
| 77 | 49 | 100.0 | 647 | 2 | US-09-613-303-53 | Sequence 53, Appl |
| 78 | 49 | 100.0 | 647 | 2 | US-10-267-311-53 | Sequence 53, Appl |
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| 80 | 49 | 100.0 | 648 | 2 | US-10-267-311-29 | Sequence 29, Appl |
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| 82 | 49 | 100.0 | 711 | 2 | US-10-267-311-41 | Sequence 41, Appl |
| 83 | 49 | 100.0 | 723 | 2 | US-09-501-097A-20 | Sequence 20, Appl |
| 84 | 49 | 100.0 | 724 | 2 | US-09-613-303-45 | Sequence 45, Appl |
| 85 | 49 | 100.0 | 724 | 2 | US-10-267-311-45 | Sequence 45, Appl |
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| 87 | 44 | 89.8 | 13 | 2 | US-08-075-541D-28 | Sequence 28, Appl |
| 88 | 44 | 89.8 | 25 | 2 | US-08-075-541D-47 | Sequence 47, Appl |
| 89 | 43 | 87.8 | 13 | 2 | US-08-075-541D-24 | Sequence 24, Appl |
| 90 | 43 | 87.8 | 20 | 2 | US-08-075-541D-5 | Sequence 5, Appli |
| 91 | 40 | 81.6 | 9 | 2 | US-08-159-339A-227 | Sequence 227, App |
| 92 | 40 | 81.6 | 9 | 2 | US-10-365-908-9 | Sequence 9, Appli |
| 93 | 40 | 81.6 | 12 | 2 | US-08-075-541D-27 | Sequence 27, Appl |
| 94 | 38 | 77.6 | 10 | 2 | US-09-601-729-281 | Sequence 281, App |
| 95 | 38 | 77.6 | 10 | 2 | US-10-365-908-36 | Sequence 36, Appl |
| 96 | 36 | 73.5 | 497 | 2 | US-09-902-540-15207 | Sequence 15207, A |
| 97 | 35 | 71.4 | 207 | 2 | US-09-902-540-10098 | Sequence 10098, A |
| 98 | 35 | 71.4 | 296 | 2 | US-09-134-001C-2976 | Sequence 2976, Ap |
| 99 | 34 | 69.4 | 7 | 2 | US-08-075-541D-11 | Sequence 11, Appl |
| 100 | 34 | 69.4 | 9 | 2 | US-10-365-908-29 | Sequence 29, Appl |

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| 103 | 34 | 69.4 | 10 | 2 | US-09-405-986A-8 | Sequence 8, Appli |
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| 106 | 34 | 69.4 | 18 | 2 | US-08-075-541D-9 | Sequence 9, Appli |
| 107 | 34 | 69.4 | 22 | 2 | US-08-075-541D-6 | Sequence 6, Appli |
| 108 | 34 | 69.4 | 22 | 2 | US-09-367-309A-6 | Sequence 6, Appli |
| 109 | 34 | 69.4 | 67 | 2 | US-08-905-223-335 | Sequence 335, App |
| 110 | 34 | 69.4 | 71 | 2 | US-09-134-000C-4750 | Sequence 4750, Ap |
| 111 | 34 | 69.4 | 272 | 2 | US-09-328-352-7372 | Sequence 7372, Ap |
| 112 | 34 | 69.4 | 332 | 2 | US-09-543-681A-5560 | Sequence 5560, Ap |
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| 114 | 33 | 67.3 | 149 | 2 | US-09-081-320-25 | Sequence 25, Appl |
| 115 | 33 | 67.3 | 149 | 2 | US-09-574-141A-25 | Sequence 25, Appl |
| 116 | 33 | 67.3 | 149 | 2 | US-09-707-780-25 | Sequence 25, Appl |
| 117 | 33 | 67.3 | 149 | 2 | US-09-568-189A-25 | Sequence 25, Appl |
| 118 | 33 | 67.3 | 153 | 2 | US-09-270-767-34840 | Sequence 34840, A |
| 119 | 33 | 67.3 | 153 | 2 | US-09-270-767-50057 | Sequence 50057, A |
| 120 | 33 | 67.3 | 166 | 2 | US-09-134-001C-4203 | Sequence 4203, Ap |
| 121 | 33 | 67.3 | 377 | 2 | US-09-574-141A-65 | Sequence 65, Appl |
| 122 | 33 | 67.3 | 377 | 2 | US-09-574-141A-66 | Sequence 66, Appl |
| 123 | 33 | 67.3 | 377 | 2 | US-09-568-189A-65 | Sequence 65, Appl |
| 124 | 33 | 67.3 | 377 | 2 | US-09-568-189A-66 | Sequence 66, Appl |
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| 126 | 33 | 67.3 | 2161 | 2 | US-09-081-320-3 | Sequence 3, Appli |
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| 131 | 32 | 65.3 | 117 | 2 | US-09-583-110-3095 | Sequence 3095, Ap |
| 132 | 32 | 65.3 | 117 | 2 | US-09-107-433-3612 | Sequence 3612, Ap |
| 133 | 32 | 65.3 | 171 | 2 | US-09-134-001C-5527 | Sequence 5527, Ap |
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| 135 | 32 | 65.3 | 280 | 2 | US-09-248-796A-17222 | Sequence 17222, A |
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| 139 | 32 | 65.3 | 488 | 2 | US-08-487-072A-60 | Sequence 60, Appl |
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| 142 | 31 | 63.3 | 144 | 2 | US-09-134-001C-3705 | Sequence 3705, Ap |
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| 147 | 31 | 63.3 | 207 | 2 | US-09-270-767-50652 | Sequence 50652, A |
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| 165 | 30 | 61.2 | 387 | 2 | US-09-967-552A-36 | Sequence 36, Appl |
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| 167 | 30 | 61.2 | 440 | 2 | US-09-949-016-8373 | Sequence 8373, Ap |
| 168 | 30 | 61.2 | 474 | 2 | US-09-315-444-116 | Sequence 116, App |
| 169 | 30 | 61.2 | 474 | 2 | US-09-721-362-116 | Sequence 116, App |
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| 171 | 30 | 61.2 | 561 | 2 | US-09-270-767-41151 | Sequence 41151, A |
| 172 | 30 | 61.2 | 561 | 2 | US-09-270-767-56367 | Sequence 56367, A |
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| 202 | 29 | 59.2 | 203 | 2 | US-09-438-185A-182 | Sequence 182, App |
| 203 | 29 | 59.2 | 220 | 2 | US-09-252-991A-30617 | Sequence 30617, A |
| 204 | 29 | 59.2 | 239 | 2 | US-09-328-352-4480 | Sequence 4480, Ap |
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| 206 | 29 | 59.2 | 274 | 2 | US-09-270-767-34307 | Sequence 34307, A |
| 207 | 29 | 59.2 | 274 | 2 | US-09-270-767-49524 | Sequence 49524, A |
| 208 | 29 | 59.2 | 282 | 2 | US-09-468-647A-112 | Sequence 112, App |
| 209 | 29 | 59.2 | 283 | 2 | US-09-328-352-6209 | Sequence 6209, Ap |
| 210 | 29 | 59.2 | 293 | 2 | US-09-252-991A-30174 | Sequence 30174, A |
| 211 | 29 | 59.2 | 302 | 2 | US-09-564-595D-54 | Sequence 54, Appl |
| 212 | 29 | 59.2 | 307 | 2 | US-09-252-991A-17664 | Sequence 17664, A |
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| 219 | 29 | 59.2 | 345 | 2 | US-09-564-595D-33 | Sequence 33, Appl |
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| 226 | 29 | 59.2 | 345 | 2 | US-09-468-647A-103 | Sequence 103, App |
| 227 | 29 | 59.2 | 345 | 2 | US-09-468-647A-110 | Sequence 110, App |
| 228 | 29 | 59.2 | 345 | 2 | US-09-468-647A-130 | Sequence 130, App |
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| 232 | 29 | 59.2 | 345 | 2 | US-09-695-121-2 | Sequence 2, Appli |
| 233 | 29 | 59.2 | 345 | 2 | US-09-999-833A-488 | Sequence 488, App |
| 234 | 29 | 59.2 | 345 | 2 | US-10-020-445A-488 | Sequence 488, App |
| 235 | 29 | 59.2 | 345 | 2 | US-09-876-813A-33 | Sequence 33, Appl |
| 236 | 29 | 59.2 | 353 | 2 | US-09-710-279-634 | Sequence 634, App |
| 237 | 29 | 59.2 | 354 | 2 | US-09-468-647A-120 | Sequence 120, App |
| 238 | 29 | 59.2 | 355 | 2 | US-09-468-647A-122 | Sequence 122, App |
| 239 | 29 | 59.2 | 362 | 2 | US-09-303-518D-504 | Sequence 504, App |
| 240 | 29 | 59.2 | 371 | 2 | US-09-303-518D-500 | Sequence 500, App |
| 241 | 29 | 59.2 | 371 | 2 | US-09-303-518D-502 | Sequence 502, App |
| 242 | 29 | 59.2 | 371 | 2 | US-09-303-518D-506 | Sequence 506, App |
| 243 | 29 | 59.2 | 374 | 2 | US-09-468-647A-118 | Sequence 118, App |
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| 245 | 29 | 59.2 | 410 | 2 | US-09-489-039A-9029 | Sequence 9029, Ap |
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| 274 | 29 | 59.2 | 925 | 1 | US-08-504-169-1 | Sequence 1, Appli |
| 275 | 29 | 59.2 | 925 | 4 | PCT-US94-14893-1 | Sequence 1, Appli |
| 276 | 29 | 59.2 | 926 | 2 | US-09-543-681A-6681 | Sequence 6681, Ap |
| 277 | 29 | 59.2 | 962 | 2 | US-09-328-352-7942 | Sequence 7942, Ap |
| 278 | 29 | 59.2 | 988 | 1 | US-08-286-819A-19 | Sequence 19, Appl |
| 279 | 29 | 59.2 | 988 | 2 | US-08-980-357-19 | Sequence 19, Appl |
| 280 | 29 | 59.2 | 988 | 2 | US-09-357-375-19 | Sequence 19, Appl |
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| 284 | 29 | 59.2 | 2504 | 2 | US-08-851-567B-12 | Sequence 12, Appl |
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| 290 | 28 | 57.1 | 9 | 2 | US-10-365-908-93 | Sequence 93, Appl |
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| 293 | 28 | 57.1 | 91 | 2 | US-09-270-767-37134 | Sequence 37134, A |
| 294 | 28 | 57.1 | 91 | 2 | US-09-270-767-52351 | Sequence 52351, A |
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| 299 | 28 | 57.1 | 131 | 2 | US-09-248-796A-21907 | Sequence 21907, A |
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| 311 | 28 | 57.1 | 157 | 2 | US-09-270-767-48460 | Sequence 48460, A |
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| 316 | 28 | 57.1 | 206 | 2 | US-09-267-177-28 | Sequence 28, Appl |
| 317 | 28 | 57.1 | 206 | 2 | US-09-514-245-14 | Sequence 14, Appl |
| 318 | 28 | 57.1 | 206 | 2 | US-09-514-245-169 | Sequence 169, App |
| 319 | 28 | 57.1 | 206 | 2 | US-09-514-245-170 | Sequence 170, App |
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| 334 | 28 | 57.1 | 315 | 2 | US-09-270-767-54524 | Sequence 54524, A |
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| 336 | 28 | 57.1 | 333 | 2 | US-09-328-352-7780 | Sequence 7780, Ap |
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| 338 | 28 | 57.1 | 351 | 2 | US-09-489-039A-11976 | Sequence 11976, A |
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| 343 | 28 | 57.1 | 372 | 1 | US-08-900-491-6 | Sequence 6, Appli |
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| 367 | 28 | 57.1 | 418 | 2 | US-09-227-721-18 | Sequence 18, Appl |
| 368 | 28 | 57.1 | 418 | 2 | US-09-954-697-18 | Sequence 18, Appl |
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| 374 | 28 | 57.1 | 422 | 2 | US-09-603-448-19 | Sequence 19, Appl |
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| 380 | 28 | 57.1 | 517 | 2 | US-09-514-422-2 | Sequence 2, Appli |
| 381 | 28 | 57.1 | 519 | 2 | US-09-538-092-1292 | Sequence 1292, Ap |
| 382 | 28 | 57.1 | 533 | 2 | US-09-549-519-31 | Sequence 31, Appl |
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| 386 | 28 | 57.1 | 560 | 1 | US-08-805-118-4 | Sequence 4, Appli |
| 387 | 28 | 57.1 | 560 | 2 | US-09-391-958-4 | Sequence 4, Appli |
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| 410 | 28 | 57.1 | 1174 | 1 | US-08-446-345-36 | Sequence 36, Appl |
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| 497 | 27 | 55.1 | 274 | 2 | US-09-328-352-6633 | Sequence 6633, Ap |
| 498 | 27 | 55.1 | 277 | 2 | US-09-328-352-4172 | Sequence 4172, Ap |
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ALIGNMENTS

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RESULT 1
US-08-159-339A-138
; Sequence 138, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  138:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
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;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-138

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RESULT 2
US-09-593-870A-25
; Sequence 25, Application US/09593870A
; Patent No. 6548643
; GENERAL INFORMATION:
;  APPLICANT: McKenzie, Ian F.C.
;  APPLICANT:  Apostolopoulos, Vasso
;  APPLICANT:  Pietersz, Geoff Allan
;  TITLE OF INVENTION: Antigen Carbohydrate Compounds and Their
;  TITLE OF INVENTION:  Use in Immunotherapy
;  FILE REFERENCE: 2368-McKenzie
;  CURRENT APPLICATION NUMBER: US/09/593,870A
;  CURRENT FILING DATE:  2000-06-14
;  PRIOR APPLICATION NUMBER: 09/223,043
;  PRIOR FILING DATE: 1998-12-30
;  NUMBER OF SEQ ID NOS: 69
;  SOFTWARE: FastSEQ for Windows Version 3.0
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;   ORGANISM: Homo sapiens
US-09-593-870A-25

  Query Match             100.0%;  Score 49;  DB 2;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 4.6e+05;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          1 RAHYNIVTF 9


RESULT 3
US-09-000-003A-5
; Sequence 5, Application US/09000003A
; Patent No. 6652850
;   GENERAL INFORMATION:
;        APPLICANT: Philip, Ramila
;                   Lebkowski, Jane S.
;        TITLE OF INVENTION: ADENO-ASSOCIATED VIRAL LIPOSOMES AND
;                            THEIR USE IN TRANSFECTING DENDRITIC CELLS TO STIMULATE
;                            SPECIFIC IMMUNITY
;        NUMBER OF SEQUENCES: 30
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Alexis Barron, Esq.
;             STREET: Suite 2600 Aramark Tower, 1101 Market Street
;             CITY: Philadelphia
;             STATE: PA
;             COUNTRY: United States of America
;             ZIP: 19107
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.25
;        CURRENT APPLICATION DATA:
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;            APPLICATION NUMBER: US/09/000,003A
;            FILING DATE: 15-Jun-1998
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: PCT/US96/12012
;            FILING DATE: 19-JUL-1996
;            APPLICATION NUMBER: US 60/001,312
;            FILING DATE: 21-JUL-1995
;            APPLICATION NUMBER: US 60/007,184
;            FILING DATE: 01-NOV-1995
;            APPLICATION NUMBER: US 08/566,286
;            FILING DATE: 01-DEC-1995
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Barron, Alexis
;            REGISTRATION NUMBER: 22,702
;            REFERENCE/DOCKET NUMBER: 20,846-K USA
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (215) 923-4466
;            TELEFAX: (215) 923-2189
;   INFORMATION FOR SEQ ID NO: 5:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 9 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: peptide
;       FRAGMENT TYPE: internal
;       SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-000-003A-5

  Query Match             100.0%;  Score 49;  DB 2;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 4.6e+05;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          1 RAHYNIVTF 9


RESULT 4
US-09-501-097A-5
; Sequence 5, Application US/09501097A
; Patent No. 6734173
; GENERAL INFORMATION:
;  APPLICANT: Tzyy-Choou Wu
;  APPLICANT:  Chien-Fu Hung
;  TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
;  FILE REFERENCE: 2240-169349
;  CURRENT APPLICATION NUMBER: US/09/501,097A
;  CURRENT FILING DATE:  2000-02-09
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-09-501-097A-5

  Query Match             100.0%;  Score 49;  DB 2;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 4.6e+05;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          1 RAHYNIVTF 9


RESULT 5
US-10-365-908-48
; Sequence 48, Application US/10365908
; Patent No. 6797491
; GENERAL INFORMATION:
;  APPLICANT: Neefe, John R.
;  APPLICANT:  Boux, Leslie J.
;  APPLICANT:  Winnett, Mark T.
;  APPLICANT:  Goldstone, Stephen E.
;  APPLICANT:  Siegel, Marvin
;  TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
;  FILE REFERENCE: 12071-003001
;  CURRENT APPLICATION NUMBER: US/10/365,908
;  CURRENT FILING DATE:  2003-02-13
;  PRIOR APPLICATION NUMBER: US/09/891,823
;  PRIOR FILING DATE: 2001-10-19
;  PRIOR APPLICATION NUMBER: US 60/214,202
;  PRIOR FILING DATE: 2000-06-26
;  NUMBER OF SEQ ID NOS: 140
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 48
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papilloma virus
US-10-365-908-48

  Query Match             100.0%;  Score 49;  DB 2;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 4.6e+05;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          1 RAHYNIVTF 9


RESULT 6
US-10-365-908-32
; Sequence 32, Application US/10365908
; Patent No. 6797491
; GENERAL INFORMATION:
;  APPLICANT: Neefe, John R.
;  APPLICANT:  Boux, Leslie J.
;  APPLICANT:  Winnett, Mark T.
;  APPLICANT:  Goldstone, Stephen E.
;  APPLICANT:  Siegel, Marvin
;  TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
;  FILE REFERENCE: 12071-003001
;  CURRENT APPLICATION NUMBER: US/10/365,908
;  CURRENT FILING DATE:  2003-02-13
;  PRIOR APPLICATION NUMBER: US/09/891,823
;  PRIOR FILING DATE: 2001-10-19
;  PRIOR APPLICATION NUMBER: US 60/214,202
;  PRIOR FILING DATE: 2000-06-26
;  NUMBER OF SEQ ID NOS: 140
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 32
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papilloma virus
US-10-365-908-32

  Query Match             100.0%;  Score 49;  DB 2;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.0029;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          2 RAHYNIVTF 10


RESULT 7
US-08-075-541D-4
; Sequence 4, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
```

```
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  14 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-4

  Query Match             100.0%;  Score 49;  DB 2;  Length 14;
  Best Local Similarity   100.0%;  Pred. No. 0.0041;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          6 RAHYNIVTF 14


RESULT 8
US-08-075-541D-29
; Sequence 29, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  29:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  14 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-29

  Query Match             100.0%;  Score 49;  DB 2;  Length 14;
  Best Local Similarity   100.0%;  Pred. No. 0.0041;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          1 RAHYNIVTF 9


RESULT 9
US-08-075-541D-56
; Sequence 56, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
```

```
;  INFORMATION FOR SEQ ID NO:  56:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  14 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-56

  Query Match             100.0%;  Score 49;  DB 2;  Length 14;
  Best Local Similarity   100.0%;  Pred. No. 0.0041;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          5 RAHYNIVTF 13


RESULT 10
US-08-075-541D-18
; Sequence 18, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  18:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  15 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-18

  Query Match             100.0%;  Score 49;  DB 2;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.0044;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          2 RAHYNIVTF 10


RESULT 11
US-09-601-729-279
; Sequence 279, Application US/09601729
; Patent No. 6683052
; GENERAL INFORMATION:
;  APPLICANT: THIAM, KADER
;  APPLICANT:  AURIAULT, CLAUDE
;  APPLICANT:  GRAS-MASSE, HELENE
;  APPLICANT:  LOING, ESTELLE
;  APPLICANT:  VERWAERDE, CLAUDIE
;  APPLICANT:  GUILLET, JEAN GERARD
;  TITLE OF INVENTION: LIPOPEPTIDES CONTAINING AN INTERFERON FRAGMENT AND USES
;  TITLE OF INVENTION:  THEREOF IN PHARMACEUTICAL COMPOSITIONS
;  FILE REFERENCE: USB-97-AU-IN
;  CURRENT APPLICATION NUMBER: US/09/601,729
;  CURRENT FILING DATE:  2000-11-20
;  PRIOR APPLICATION NUMBER: PCT/FR99/00259
;  PRIOR FILING DATE: 1999-02-05
;  PRIOR APPLICATION NUMBER: 98 01439
;  PRIOR FILING DATE: 1998-02-06
;  NUMBER OF SEQ ID NOS: 281
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 279
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;   OTHER INFORMATION: peptide
US-09-601-729-279

  Query Match             100.0%;  Score 49;  DB 2;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.0044;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          7 RAHYNIVTF 15


RESULT 12
US-08-075-541D-25
; Sequence 25, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
```

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;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  25:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  17 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-25

  Query Match             100.0%;  Score 49;  DB 2;  Length 17;
  Best Local Similarity   100.0%;  Pred. No. 0.005;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          6 RAHYNIVTF 14


RESULT 13
US-09-980-523A-16
; Sequence 16, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
;   LENGTH: 17
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus
US-09-980-523A-16

  Query Match             100.0%;  Score 49;  DB 2;  Length 17;
  Best Local Similarity   100.0%;  Pred. No. 0.005;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          6 RAHYNIVTF 14


RESULT 14
US-08-075-541D-30
; Sequence 30, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  30:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  18 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-30

  Query Match             100.0%;  Score 49;  DB 2;  Length 18;
  Best Local Similarity   100.0%;  Pred. No. 0.0053;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          5 RAHYNIVTF 13


RESULT 15
US-08-075-541D-3
; Sequence 3, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
```

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;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  19 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-3

  Query Match             100.0%;  Score 49;  DB 2;  Length 19;
  Best Local Similarity   100.0%;  Pred. No. 0.0056;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          6 RAHYNIVTF 14


RESULT 16
US-08-934-915-48
; Sequence 48, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  48:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-48

  Query Match             100.0%;  Score 49;  DB 1;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.006;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          3 RAHYNIVTF 11


RESULT 17
US-08-934-915-155
; Sequence 155, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  155:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-155

  Query Match             100.0%;  Score 49;  DB 1;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.006;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
```

```
Db          3 RAHYNIVTF 11


RESULT 18
US-08-075-541D-10
; Sequence 10, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-10

  Query Match             100.0%;  Score 49;  DB 2;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.006;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          7 RAHYNIVTF 15


RESULT 19
US-09-980-177A-73
; Sequence 73, Application US/09980177A
; Patent No. 6838084
; GENERAL INFORMATION:
;  APPLICANT: Jochmus, Ingrid
;  APPLICANT:  Nieland, John
;  TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
;  TITLE OF INVENTION:  Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
;  TITLE OF INVENTION:  Therapy
;  FILE REFERENCE: 50125/036001
;  CURRENT APPLICATION NUMBER: US/09/980,177A
;  CURRENT FILING DATE:  2001-11-29
;  PRIOR APPLICATION NUMBER: PCT/EP00/05006
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: DE 19925199.1
;  PRIOR FILING DATE: 1999-06-01
;  NUMBER OF SEQ ID NOS: 77
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 73
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-980-177A-73

  Query Match             100.0%;  Score 49;  DB 2;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.006;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          5 RAHYNIVTF 13


RESULT 20
US-08-075-541D-20
; Sequence 20, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  26 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-20

  Query Match             100.0%;  Score 49;  DB 2;  Length 26;
  Best Local Similarity   100.0%;  Pred. No. 0.0079;
```

```
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         13 RAHYNIVTF 21


RESULT 21
US-08-934-915-52
; Sequence 52, Application US/08934915
; Patent No. 5932412
;  GENERAL INFORMATION:
;    APPLICANT:  DILLNER, JOAKIM
;    APPLICANT:  DILLNER, LENA
;    APPLICANT:  CHENG, HWEE-MING
;    TITLE OF INVENTION:  SYNTHETIC PEPTIDES OF HUMAN
;    TITLE OF INVENTION:  PAPILLOMAVIRUS 1, 5, 6, 8,
;    TITLE OF INVENTION:  11, 16, 18, 31, 33 AND 56,
;    TITLE OF INVENTION:  USEFUL IN IMMUNOASSAY FOR
;    TITLE OF INVENTION:  DIAGNOSTIC PURPOSES
;    NUMBER OF SEQUENCES:  193
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MASON & ASSOCIATES, P.A.
;      STREET:  17757 U.S. HWY. 19 NORTH, SUITE 500
;      CITY:  CLEARWATER
;      STATE:  FLORIDA
;      COUNTRY:  U.S.A.
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 3.0
;      SOFTWARE:  Microsoft Word 6.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/934,915
;      FILING DATE:  22-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/949,836
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LOUISE A. Foutch
;      REGISTRATION NUMBER:  37,133
;      REFERENCE/DOCKET NUMBER:  1946.6
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  813-538-3800
;      TELEFAX:  813-538-3820
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  52:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  30 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-934-915-52

  Query Match             100.0%;  Score 49;  DB 1;  Length 30;
  Best Local Similarity   100.0%;  Pred. No. 0.0092;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          6 RAHYNIVTF 14


RESULT 22
US-09-486-394-3
; Sequence 3, Application US/09486394
; Patent No. 6478749
; GENERAL INFORMATION:
;  APPLICANT: Hopfl, Reinhard
;  TITLE OF INVENTION: Diagnostic Kit for Skin Tests, and Method
;  FILE REFERENCE: 032929-001
;  CURRENT APPLICATION NUMBER: US/09/486,394
;  CURRENT FILING DATE:  2000-06-20
;  PRIOR APPLICATION NUMBER: PCT/EP98/04773
;  PRIOR FILING DATE: 1998-07-30
;  PRIOR APPLICATION NUMBER: DE 197 37 409.3
;  PRIOR FILING DATE: 1997-08-27
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 30
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(30)
;   OTHER INFORMATION: E7 peptide.
US-09-486-394-3

  Query Match             100.0%;  Score 49;  DB 2;  Length 30;
  Best Local Similarity   100.0%;  Pred. No. 0.0092;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          9 RAHYNIVTF 17


RESULT 23
US-08-075-541D-7
; Sequence 7, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  32 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
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US-08-075-541D-7

Query Match 100.0%; Score 49; DB 2; Length 32;
Best Local Similarity 100.0%; Pred. No. 0.0098;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
||||||||| 
Db 19 RAHYNIVTF 27

RESULT 24
US-08-075-541D-8
; Sequence 8, Application US/08075541D
; Patent No. 6183745
; GENERAL INFORMATION:
; APPLICANT: TINDLE, ROBERT
; APPLICANT: FERNANDO, GERMAIN
; APPLICANT: FRAZER, IAN
; TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
; TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
; STREET: 1601 MARKET STREET, 36TH FLOOR
; CITY: PHILADELPHIA
; STATE: PENNSYLVANIA
; COUNTRY: USA
; ZIP: 19103-2398
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/075,541D
; FILING DATE: 10-JUN-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: AU pk 3876
; FILING DATE: 12-DEC-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: pct/au91/00575
; FILING DATE: 12-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: NADEL, ALAN S
; REGISTRATION NUMBER: 27,363
; REFERENCE/DOCKET NUMBER: 8795-4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-567-2020
; TELEFAX: 215-567-2991
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 32 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-075-541D-8

Query Match 100.0%; Score 49; DB 2; Length 32;
Best Local Similarity 100.0%; Pred. No. 0.0098;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
||||||||| 
Db 1 RAHYNIVTF 9

RESULT 25
US-09-501-097A-6
; Sequence 6, Application US/09501097A
; Patent No. 6734173
; GENERAL INFORMATION:
; APPLICANT: Tzyy-Choou Wu
; APPLICANT: Chien-Fu Hung
; TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
; FILE REFERENCE: 2240-169349
; CURRENT APPLICATION NUMBER: US/09/501,097A
; CURRENT FILING DATE: 2000-02-09
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 38
; TYPE: PRT
; ORGANISM: human papillomavirus
US-09-501-097A-6

Query Match 100.0%; Score 49; DB 2; Length 38;
Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
||||||||| 
Db 20 RAHYNIVTF 28

RESULT 26
US-09-390-027-6
; Sequence 6, Application US/09390027
; Patent No. 6235523
; GENERAL INFORMATION:
; APPLICANT: GAJEWCZYK, Diane M.
; APPLICANT: PERSSON, Roy
; APPLICANT: YAO, Fei-Long
; APPLICANT: CAO, Shi-Xian
; APPLICANT: KLEIN, Michel H.
; APPLICANT: TARTAGLIA, James
; APPLICANT: MOINGEON, Phillipe
; APPLICANT: ROVINSKI, Benjamin
; TITLE OF INVENTION: TREATMENT OF CERVICAL CANCER
; FILE REFERENCE: 1038-982 MIS:jb
; CURRENT APPLICATION NUMBER: US/09/390,027
; CURRENT FILING DATE: 1999-09-03
; EARLIER APPLICATION NUMBER: 60/099,291
; EARLIER FILING DATE: 1998-09-04
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 59
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Synthetic
US-09-390-027-6

Query Match 100.0%; Score 49; DB 2; Length 59;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
||||||||| 
Db 2 RAHYNIVTF 10

RESULT 27
US-08-406-248-6
; Sequence 6, Application US/08406248
; Patent No. 5736318
; GENERAL INFORMATION:
; APPLICANT: Munger, Karl
; APPLICANT: Jones, D. Leanne
; TITLE OF INVENTION: METHOD AND KIT FOR EVALUATING
; TITLE OF INVENTION: TRANSFORMED CELLS
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:

```
;      ADDRESSEE:  Ann-Louise Kerner, Ph.D., Lappin & Kusmer
;      STREET:  200 State Street
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/406,248
;      FILING DATE:
;      CLASSIFICATION:  436
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  McDaniels, Patricia A.
;      REGISTRATION NUMBER:  33,194
;      REFERENCE/DOCKET NUMBER:  HAZ-011
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-330-1300
;      TELEFAX:  617-330-1311
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  98 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-406-248-6

  Query Match             100.0%;  Score 49;  DB 1;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.032;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         49 RAHYNIVTF 57


RESULT 28
US-08-075-541D-42
; Sequence 42, Application US/08075541D
; Patent No. 6183745
;  GENERAL INFORMATION:
;    APPLICANT:  TINDLE, ROBERT
;    APPLICANT:  FERNANDO, GERMAIN
;    APPLICANT:  FRAZER, IAN
;    TITLE OF INVENTION:  SUBUNIT PAPILLOMA VIRUS VACCINE AND
;    TITLE OF INVENTION:  PEPTIDES FOR USE THEREIN
;    NUMBER OF SEQUENCES:  56
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PANITCH SCHWARZE JACOBS & NADEL, P.C.
;      STREET:  1601 MARKET STREET, 36TH FLOOR
;      CITY:  PHILADELPHIA
;      STATE:  PENNSYLVANIA
;      COUNTRY:  USA
;      ZIP:  19103-2398
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/075,541D
;      FILING DATE:  10-JUN-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  AU pk 3876
;      FILING DATE:  12-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  pct/au91/00575
;      FILING DATE:  12-DEC-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  NADEL, ALAN S
;      REGISTRATION NUMBER:  27,363
;      REFERENCE/DOCKET NUMBER:  8795-4
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-567-2020
;      TELEFAX:  215-567-2991
;  INFORMATION FOR SEQ ID NO:  42:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  98 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-075-541D-42

  Query Match             100.0%;  Score 49;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.032;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         49 RAHYNIVTF 57


RESULT 29
US-09-382-616A-1
; Sequence 1, Application US/09382616A
; Patent No. 6200746
; GENERAL INFORMATION:
;  APPLICANT:  Fisher, Christopher
;  APPLICANT:  He, Wanxia
;  TITLE OF INVENTION:  Methods to Identify Anti-Viral Agents
;  FILE REFERENCE:  28341/6216
;  CURRENT APPLICATION NUMBER: US/09/382,616A
;  CURRENT FILING DATE:  1999-08-25
;  PRIOR APPLICATION NUMBER:  09/382,616
;  PRIOR FILING DATE:  1999-08-25
;  NUMBER OF SEQ ID NOS:  43
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH:  98
;   TYPE:  PRT
;   ORGANISM:  Papillomavirus sylvilagi
US-09-382-616A-1

  Query Match             100.0%;  Score 49;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.032;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         49 RAHYNIVTF 57


RESULT 30
US-08-944-368A-4
; Sequence 4, Application US/08944368A
; Patent No. 6228368
;  GENERAL INFORMATION:
;    APPLICANT:  Gissman, et al.
;    TITLE OF INVENTION:  Papilloma Virus Capsomere Vaccine
;    TITLE OF INVENTION:  Formulations and Methods of Use
;    NUMBER OF SEQUENCES:  28
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray &
;      ADDRESSEE:  Borun
;      STREET:  233 South Wacker Drive, 6300 Sears Tower
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  United States of America
;      ZIP:  60606-6402
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
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;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/944,368A
;      FILING DATE:
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Williams Jr., Joseph A.
;      REGISTRATION NUMBER:  38,659
;      REFERENCE/DOCKET NUMBER:  27013/34028
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  312-474-6300
;      TELEFAX:  312-474-0448
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  98 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-944-368A-4

  Query Match             100.0%;  Score 49;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.032;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         49 RAHYNIVTF 57


RESULT 31
US-09-820-764-4
; Sequence 4, Application US/09820764
; Patent No. 6352696
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                            FORMULATIONS AND METHODS OF USE
;        NUMBER OF SEQUENCES: 28
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: FOLEY & LARDNER
;             STREET: 3000 K Street, N.W.
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: U.S.A.
;             ZIP: 20007-5109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/820,764
;             FILING DATE: 30-Mar-2001
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US 09/026,896
;             FILING DATE: 20-FEB-1998
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Sandercock, Colin G.
;             REGISTRATION NUMBER: 31,298
;             REFERENCE/DOCKET NUMBER: 37067/102
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 672-5300
;             TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 98 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-764-4

  Query Match             100.0%;  Score 49;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.032;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         49 RAHYNIVTF 57


RESULT 32
US-09-613-303-8
; Sequence 8, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
;  APPLICANT:  Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION:  INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE:  12071/002001
;  CURRENT APPLICATION NUMBER: US/09/613,303
;  CURRENT FILING DATE:  2000-07-10
;  PRIOR APPLICATION NUMBER:  US 60/143,757
;  PRIOR FILING DATE:  1999-07-08
;  NUMBER OF SEQ ID NOS:  55
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-09-613-303-8

  Query Match             100.0%;  Score 49;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.032;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         49 RAHYNIVTF 57


RESULT 33
US-09-566-420-19
; Sequence 19, Application US/09566420
; Patent No. 6500641
; GENERAL INFORMATION:
;  APPLICANT:  CHEN, SI-YI AND ZHAOYANG, YOU
;  TITLE OF INVENTION:  METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
;  TITLE OF INVENTION:  IMMUNE RESPONSE
;  FILE REFERENCE:  TBA
;  CURRENT APPLICATION NUMBER: US/09/566,420
;  CURRENT FILING DATE:  2000-05-05
;  PRIOR APPLICATION NUMBER:  60/132,752
;  PRIOR FILING DATE:  1999-05-06
;  PRIOR APPLICATION NUMBER:  60/132,750
;  PRIOR FILING DATE:  1999-05-06
;  NUMBER OF SEQ ID NOS:  19
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 19
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type E7
US-09-566-420-19

  Query Match             100.0%;  Score 49;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.032;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
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              |||||||||
Db         49 RAHYNIVTF 57


RESULT 34
US-09-986-118A-4
; Sequence 4, Application US/09986118A
; Patent No. 6562351
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                            FORMULATIONS AND METHODS OF USE
;        NUMBER OF SEQUENCES: 28
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: FOLEY & LARDNER
;             STREET: 3000 K Street, N.W.
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: U.S.A.
;             ZIP: 20007-5109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/986,118A
;             FILING DATE: 07-No. 6562351-2001
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US 09/026,896
;             FILING DATE: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Sandercock, Colin G.
;             REGISTRATION NUMBER: 31,298
;             REFERENCE/DOCKET NUMBER: 37067/102
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 672-5300
;             TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 98 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

  Query Match             100.0%;  Score 49;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.032;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         49 RAHYNIVTF 57


RESULT 35
US-09-728-466-1
; Sequence 1, Application US/09728466
; Patent No. 6641994
; GENERAL INFORMATION:
;  APPLICANT:  Fisher, Christopher
;  APPLICANT:  He, Wanxia
;  TITLE OF INVENTION:  Methods to Identify Anti-Viral Agents
;  FILE REFERENCE:  28341/6216
;  CURRENT APPLICATION NUMBER: US/09/728,466
;  CURRENT FILING DATE:  2000-12-01
;  PRIOR APPLICATION NUMBER:  09/382,616
;  PRIOR FILING DATE:  1999-08-25
;  NUMBER OF SEQ ID NOS:  43
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Papillomavirus sylvilagi
US-09-728-466-1

  Query Match             100.0%;  Score 49;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.032;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         49 RAHYNIVTF 57


RESULT 36
US-09-824-017-4
; Sequence 4, Application US/09824017
; Patent No. 6649167
;   GENERAL INFORMATION:
;        APPLICANT: BURGER, Alexander
;                   HALLEK, Michael
;        TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
;                            FORMULATIONS AND METHODS OF USE
;        NUMBER OF SEQUENCES: 28
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: FOLEY & LARDNER
;             STREET: 3000 K Street, N.W.
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: U.S.A.
;             ZIP: 20007-5109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/824,017
;             FILING DATE: 03-Apr-2001
;             CLASSIFICATION: 424
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 09/026,896
;             FILING DATE: 1998-02-20
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Sandercock, Colin G.
;             REGISTRATION NUMBER: 31,298
;             REFERENCE/DOCKET NUMBER: 37067/102
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 672-5300
;             TELEFAX: (202) 672-5399
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 98 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-824-017-4

  Query Match             100.0%;  Score 49;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.032;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         49 RAHYNIVTF 57


RESULT 37
US-10-267-311-8
; Sequence 8, Application US/10267311
; Patent No. 6657055
```

```
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: fusion sequence
US-10-267-311-8

  Query Match             100.0%;  Score 49;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.032;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         49 RAHYNIVTF 57


RESULT 38
US-10-201-764-19
; Sequence 19, Application US/10201764
; Patent No. 6716623
; GENERAL INFORMATION:
;  APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
;  TITLE OF INVENTION:  IMMUNE RESPONSE
;  FILE REFERENCE: TBA
;  CURRENT APPLICATION NUMBER: US/10/201,764
;  CURRENT FILING DATE:  2002-07-22
;  PRIOR APPLICATION NUMBER: US/09/566,420
;  PRIOR FILING DATE: 2000-05-05
;  PRIOR APPLICATION NUMBER: 60/132,752
;  PRIOR FILING DATE: 1999-05-06
;  PRIOR APPLICATION NUMBER: 60/132,750
;  PRIOR FILING DATE: 1999-05-06
;  NUMBER OF SEQ ID NOS: 19
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type E7
US-10-201-764-19

  Query Match             100.0%;  Score 49;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.032;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         49 RAHYNIVTF 57


RESULT 39
US-09-637-746-3
; Sequence 3, Application US/09637746
; Patent No. 6727079
; GENERAL INFORMATION:
;  APPLICANT: Thorgeirsson, Snorri S.
;  APPLICANT:  Woitach, Joseph T.
;  APPLICANT:  Zhang, Minghuang
;  TITLE OF INVENTION: cDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS PROTEIN
;  TITLE OF INVENTION:  PRODUCT
;  FILE REFERENCE: 11613.29USW1
;  CURRENT APPLICATION NUMBER: US/09/637,746
;  CURRENT FILING DATE:  2000-08-11
;  PRIOR APPLICATION NUMBER: PCT/US99/04142
;  PRIOR FILING DATE: 1999-02-25
;  PRIOR APPLICATION NUMBER: US 60/079,567
;  PRIOR FILING DATE: 1998-03-27
;  PRIOR APPLICATION NUMBER: US 60/075,922
;  PRIOR FILING DATE: 1998-02-25
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-09-637-746-3

  Query Match             100.0%;  Score 49;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.032;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         49 RAHYNIVTF 57


RESULT 40
US-09-501-097A-7
; Sequence 7, Application US/09501097A
; Patent No. 6734173
; GENERAL INFORMATION:
;  APPLICANT: Tzyy-Choou Wu
;  APPLICANT:  Chien-Fu Hung
;  TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
;  FILE REFERENCE: 2240-169349
;  CURRENT APPLICATION NUMBER: US/09/501,097A
;  CURRENT FILING DATE:  2000-02-09
;  NUMBER OF SEQ ID NOS: 25
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-09-501-097A-7

  Query Match             100.0%;  Score 49;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.032;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         49 RAHYNIVTF 57


RESULT 41
US-09-980-523A-12
; Sequence 12, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
;  APPLICANT: CHOPPIN, JEANNINE
;  APPLICANT:  BOURGAULT VILLADA, ISABELLE
;  APPLICANT:  GUILLET, JEAN-GERARD
;  APPLICANT:  CONNAN, FRANCINE
;  APPLICANT:  FERRIES, ESTELLE
;  TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
;  TITLE OF INVENTION:  PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;  TITLE OF INVENTION:  PARTICULARLY IN VACCINATION
;  FILE REFERENCE: WOB1 AO INS
;  CURRENT APPLICATION NUMBER: US/09/980,523A
;  CURRENT FILING DATE:  2002-04-29
;  PRIOR APPLICATION NUMBER: PCT/FR00/01513
```

```
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: FR 99/07012
;  PRIOR FILING DATE: 1999-06-03
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
;    LENGTH: 98
;    TYPE: PRT
;    ORGANISM: Human Papillomavirus
US-09-980-523A-12

  Query Match             100.0%;  Score 49;  DB 2;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.032;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         49 RAHYNIVTF 57


RESULT 42
US-09-613-303-12
; Sequence 12, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
;  APPLICANT:  Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION:  INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE:  12071/002001
;  CURRENT APPLICATION NUMBER: US/09/613,303
;  CURRENT FILING DATE:  2000-07-10
;  PRIOR APPLICATION NUMBER:  US 60/143,757
;  PRIOR FILING DATE:  1999-07-08
;  NUMBER OF SEQ ID NOS:  55
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 12
;    LENGTH: 121
;    TYPE: PRT
;    ORGANISM: Artificial Sequence
;    FEATURE:
;    OTHER INFORMATION: fusion sequence
US-09-613-303-12

  Query Match             100.0%;  Score 49;  DB 2;  Length 121;
  Best Local Similarity   100.0%;  Pred. No. 0.04;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         72 RAHYNIVTF 80


RESULT 43
US-10-267-311-12
; Sequence 12, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
;  APPLICANT: Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE: 12071/002001
;  CURRENT APPLICATION NUMBER: US/10/267,311
;  CURRENT FILING DATE:  2002-10-09
;  PRIOR APPLICATION NUMBER: US/09/613,303
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: US 60/143,757
;  PRIOR FILING DATE: 1999-07-08
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
;    LENGTH: 121
;    TYPE: PRT
;    ORGANISM: Artificial Sequence
;    FEATURE:
;    OTHER INFORMATION: fusion sequence
US-10-267-311-12

  Query Match             100.0%;  Score 49;  DB 2;  Length 121;
  Best Local Similarity   100.0%;  Pred. No. 0.04;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         72 RAHYNIVTF 80


RESULT 44
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;    LENGTH: 172
;    TYPE: PRT
;    ORGANISM: Artificial Sequence
;    FEATURE:
;    OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

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Qy          1 RAHYNIVTF 9
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Db        147 RAHYNIVTF 155


RESULT 45
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; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 17227/130
;  CURRENT APPLICATION NUMBER: US/08/860,165A
;  CURRENT FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 15
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; SEQ ID NO 14
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;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

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Qy          1 RAHYNIVTF 9
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Db         17 RAHYNIVTF 25


RESULT 46
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; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 172
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-09-359-382-12

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RESULT 47
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; Patent No. 6306397
; GENERAL INFORMATION:
;  APPLICANT: EDWARDS, Stirling John
;  APPLICANT: COX, John Cooper
;  APPLICANT: WEBB, Elizabeth Ann
;  APPLICANT: FRAZER, Ian
;  TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;  FILE REFERENCE: 017227/0148
;  CURRENT APPLICATION NUMBER: US/09/359,382
;  CURRENT FILING DATE: 1999-07-23
;  EARLIER APPLICATION NUMBER: US 08/860,165
;  EARLIER FILING DATE: 1997-09-22
;  EARLIER APPLICATION NUMBER: PCT/AU95/00868
;  EARLIER FILING DATE: 1995-12-20
;  EARLIER APPLICATION NUMBER: AU PN0157/94
;  EARLIER FILING DATE: 1994-12-20
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US-09-359-382-14

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Db         17 RAHYNIVTF 25


RESULT 48
US-09-462-993-2
; Sequence 2, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
;  APPLICANT:  KIENY, Marie-Paule
;  APPLICANT:  BALLOUL, Jean-Marc
;  APPLICANT:  BIZOUARNE, Nadine
;  TITLE OF INVENTION:  ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
;  TITLE OF INVENTION:  POLYPEPTIDE WITH MODIFIED CELL LOCATION
;  FILE REFERENCE:  017753-122
;  CURRENT APPLICATION NUMBER: US/09/462,993
;  CURRENT FILING DATE:  2000-04-17
;  PRIOR APPLICATION NUMBER:  PCT/FR98/01576
;  PRIOR FILING DATE:  1998-07-17
;  PRIOR APPLICATION NUMBER:  FR 97/09152
;  PRIOR FILING DATE:  1997-07-18
;  NUMBER OF SEQ ID NOS:  23
;  SOFTWARE:  PatentIn Ver. 2.2
; SEQ ID NO 2
;   LENGTH: 185
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Derivated from human papillomavirus, strain
;   OTHER INFORMATION: HPV-16, E7 fusion signals of the rabies
;   OTHER INFORMATION: glycoprotein, clone E7*TMR.
US-09-462-993-2

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Db         68 RAHYNIVTF 76


RESULT 49
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; Sequence 35, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
;  APPLICANT:  Siegel, Marvin
;  APPLICANT:  Chu, N. Randall
;  APPLICANT:  Mizzen, Lee A.
;  TITLE OF INVENTION:  INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
;  FILE REFERENCE:  12071/002001
;  CURRENT APPLICATION NUMBER: US/09/613,303
;  CURRENT FILING DATE:  2000-07-10
;  PRIOR APPLICATION NUMBER:  US 60/143,757
;  PRIOR FILING DATE:  1999-07-08
;  NUMBER OF SEQ ID NOS:  55
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US-09-613-303-35

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RESULT 50
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; Patent No. 6657055
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 4.0
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; OTHER INFORMATION: fusion sequence
US-10-267-311-35

Query Match 100.0%; Score 49; DB 2; Length 198;
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Db        149 RAHYNIVTF 157
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Title: US-08-170-344-74
Perfect score: 49
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Listing first 1000 summaries

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| 128 | 44 | 89.8 | 9 | 3 | US-09-891-823-40 | Sequence 40, Appl |
| 129 | 44 | 89.8 | 9 | 4 | US-10-365-908-40 | Sequence 40, Appl |
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| 153 | 37 | 75.5 | 612 | 4 | US-10-282-122A-65672 | Sequence 65672, A |
| 154 | 36 | 73.5 | 112 | 4 | US-10-425-115-216358 | Sequence 216358, |
| 155 | 36 | 73.5 | 160 | 4 | US-10-425-115-228469 | Sequence 228469, |
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| 157 | 35 | 71.4 | 168 | 4 | US-10-425-115-208033 | Sequence 208033, |
| 158 | 35 | 71.4 | 296 | 4 | US-10-724-972A-6944 | Sequence 6944, Ap |
| 159 | 34 | 69.4 | 6 | 4 | US-10-648-547-99 | Sequence 99, Appl |
| 160 | 34 | 69.4 | 6 | 4 | US-10-306-541-99 | Sequence 99, Appl |
| 161 | 34 | 69.4 | 7 | 3 | US-09-739-466C-12 | Sequence 12, Appl |
| 162 | 34 | 69.4 | 7 | 4 | US-10-472-661-2 | Sequence 2, Appli |
| 163 | 34 | 69.4 | 8 | 4 | US-10-648-547-60 | Sequence 60, Appl |
| 164 | 34 | 69.4 | 8 | 4 | US-10-306-541-60 | Sequence 60, Appl |
| 165 | 34 | 69.4 | 9 | 2 | US-08-344-824-139 | Sequence 139, App |
| 166 | 34 | 69.4 | 9 | 3 | US-09-891-823-29 | Sequence 29, Appl |
| 167 | 34 | 69.4 | 9 | 4 | US-10-365-908-29 | Sequence 29, Appl |
| 168 | 34 | 69.4 | 9 | 4 | US-10-648-547-50 | Sequence 50, Appl |
| 169 | 34 | 69.4 | 9 | 4 | US-10-306-541-50 | Sequence 50, Appl |
| 170 | 34 | 69.4 | 9 | 5 | US-10-871-138-29 | Sequence 29, Appl |
| 171 | 34 | 69.4 | 9 | 5 | US-10-751-845-110 | Sequence 110, App |
| 172 | 34 | 69.4 | 10 | 3 | US-09-888-721-6 | Sequence 6, Appli |
| 173 | 34 | 69.4 | 10 | 4 | US-10-668-400-8 | Sequence 8, Appli |
| 174 | 34 | 69.4 | 22 | 3 | US-09-367-309A-6 | Sequence 6, Appli |
| 175 | 34 | 69.4 | 75 | 4 | US-10-425-115-332785 | Sequence 332785, |
| 176 | 34 | 69.4 | 79 | 4 | US-10-425-115-367185 | Sequence 367185, |
| 177 | 34 | 69.4 | 86 | 4 | US-10-425-115-210559 | Sequence 210559, |
| 178 | 34 | 69.4 | 165 | 4 | US-10-767-701-57511 | Sequence 57511, A |
| 179 | 34 | 69.4 | 185 | 5 | US-10-732-923-16376 | Sequence 16376, A |
| 180 | 34 | 69.4 | 195 | 5 | US-10-450-763-56693 | Sequence 56693, A |
| 181 | 34 | 69.4 | 1149 | 5 | US-10-732-923-22750 | Sequence 22750, A |
| 182 | 34 | 69.4 | 1161 | 4 | US-10-170-102-4 | Sequence 4, Appli |
| 183 | 34 | 69.4 | 1161 | 5 | US-10-732-923-22728 | Sequence 22728, A |
| 184 | 34 | 69.4 | 1164 | 5 | US-10-732-923-22727 | Sequence 22727, A |
| 185 | 34 | 69.4 | 1193 | 4 | US-10-467-685-2 | Sequence 2, Appli |
| 186 | 34 | 69.4 | 1883 | 4 | US-10-243-552-842 | Sequence 842, App |
| 187 | 34 | 69.4 | 1883 | 5 | US-10-450-763-54829 | Sequence 54829, A |
| 188 | 33 | 67.3 | 6 | 4 | US-10-648-547-98 | Sequence 98, Appl |
| 189 | 33 | 67.3 | 6 | 4 | US-10-306-541-98 | Sequence 98, Appl |
| 190 | 33 | 67.3 | 36 | 3 | US-09-978-360A-549 | Sequence 549, App |
| 191 | 33 | 67.3 | 43 | 4 | US-10-424-599-285331 | Sequence 285331, |
| 192 | 33 | 67.3 | 52 | 4 | US-10-425-115-305184 | Sequence 305184, |
| 193 | 33 | 67.3 | 69 | 4 | US-10-425-115-324506 | Sequence 324506, |
| 194 | 33 | 67.3 | 72 | 4 | US-10-425-115-241226 | Sequence 241226, |
| 195 | 33 | 67.3 | 94 | 4 | US-10-425-115-349672 | Sequence 349672, |
| 196 | 33 | 67.3 | 99 | 4 | US-10-425-115-322729 | Sequence 322729, |
| 197 | 33 | 67.3 | 149 | 5 | US-10-803-063-25 | Sequence 25, Appl |
| 198 | 33 | 67.3 | 166 | 4 | US-10-724-972A-3822 | Sequence 3822, Ap |
| 199 | 33 | 67.3 | 196 | 4 | US-10-437-963-150306 | Sequence 150306, |
| 200 | 33 | 67.3 | 222 | 4 | US-10-473-115-12 | Sequence 12, Appl |
| 201 | 33 | 67.3 | 229 | 4 | US-10-437-963-152447 | Sequence 152447, |
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| 203 | 33 | 67.3 | 377 | 5 | US-10-803-063-65 | Sequence 65, Appl |
| 204 | 33 | 67.3 | 377 | 5 | US-10-803-063-66 | Sequence 66, Appl |
| 205 | 33 | 67.3 | 464 | 4 | US-10-424-599-207280 | Sequence 207280, |
| 206 | 33 | 67.3 | 551 | 4 | US-10-159-257A-202 | Sequence 202, App |
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| 209 | 33 | 67.3 | 934 | 4 | US-10-041-018-256 | Sequence 256, App |
| 210 | 33 | 67.3 | 934 | 4 | US-10-041-018-333 | Sequence 333, App |
| 211 | 33 | 67.3 | 1149 | 5 | US-10-732-923-22562 | Sequence 22562, A |
| 212 | 33 | 67.3 | 1164 | 5 | US-10-732-923-22563 | Sequence 22563, A |
| 213 | 33 | 67.3 | 1394 | 4 | US-10-437-963-203834 | Sequence 203834, |
| 214 | 33 | 67.3 | 2161 | 5 | US-10-803-063-3 | Sequence 3, Appli |
| 215 | 33 | 67.3 | 2177 | 4 | US-10-706-424-6 | Sequence 6, Appli |
| 216 | 33 | 67.3 | 2183 | 4 | US-10-223-070-2 | Sequence 2, Appli |
| 217 | 32 | 65.3 | 6 | 4 | US-10-648-547-100 | Sequence 100, App |
| 218 | 32 | 65.3 | 6 | 4 | US-10-306-541-100 | Sequence 100, App |
| 219 | 32 | 65.3 | 9 | 4 | US-10-648-547-54 | Sequence 54, Appl |
| 220 | 32 | 65.3 | 9 | 4 | US-10-306-541-54 | Sequence 54, Appl |
| 221 | 32 | 65.3 | 10 | 4 | US-10-648-547-108 | Sequence 108, App |
| 222 | 32 | 65.3 | 10 | 4 | US-10-306-541-108 | Sequence 108, App |
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| 229 | 32 | 65.3 | 117 | 5 | US-10-617-320-3612 | Sequence 3612, Ap |
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| 231 | 32 | 65.3 | 141 | 4 | US-10-425-115-214761 | Sequence 214761, |
| 232 | 32 | 65.3 | 142 | 4 | US-10-424-599-205098 | Sequence 205098, |
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| 236 | 32 | 65.3 | 171 | 4 | US-10-724-972A-7251 | Sequence 7251, Ap |
| 237 | 32 | 65.3 | 210 | 4 | US-10-335-977-9488 | Sequence 9488, Ap |
| 238 | 32 | 65.3 | 224 | 4 | US-10-365-742-44 | Sequence 44, Appl |
| 239 | 32 | 65.3 | 230 | 4 | US-10-425-115-261628 | Sequence 261628, |
| 240 | 32 | 65.3 | 237 | 4 | US-10-282-122A-72151 | Sequence 72151, A |
| 241 | 32 | 65.3 | 245 | 3 | US-09-815-242-11003 | Sequence 11003, A |
| 242 | 32 | 65.3 | 245 | 4 | US-10-282-122A-58132 | Sequence 58132, A |
| 243 | 32 | 65.3 | 248 | 3 | US-09-880-748-835 | Sequence 835, App |
| 244 | 32 | 65.3 | 248 | 3 | US-09-880-748-914 | Sequence 914, App |
| 245 | 32 | 65.3 | 248 | 3 | US-09-880-748-916 | Sequence 916, App |
| 246 | 32 | 65.3 | 248 | 3 | US-09-880-748-920 | Sequence 920, App |

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| 247 | 32 | 65.3 | 248 | 3 | US-09-880-748-1323 | Sequence 1323, Ap |
| 248 | 32 | 65.3 | 248 | 4 | US-10-293-418-835 | Sequence 835, App |
| 249 | 32 | 65.3 | 248 | 4 | US-10-293-418-914 | Sequence 914, App |
| 250 | 32 | 65.3 | 248 | 4 | US-10-293-418-916 | Sequence 916, App |
| 251 | 32 | 65.3 | 248 | 4 | US-10-293-418-920 | Sequence 920, App |
| 252 | 32 | 65.3 | 248 | 4 | US-10-293-418-1323 | Sequence 1323, Ap |
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| 254 | 32 | 65.3 | 249 | 3 | US-09-880-748-941 | Sequence 941, App |
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| 259 | 32 | 65.3 | 251 | 3 | US-09-880-748-1309 | Sequence 1309, Ap |
| 260 | 32 | 65.3 | 251 | 3 | US-09-880-748-1317 | Sequence 1317, Ap |
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| 263 | 32 | 65.3 | 251 | 4 | US-10-293-418-1114 | Sequence 1114, Ap |
| 264 | 32 | 65.3 | 251 | 4 | US-10-293-418-1309 | Sequence 1309, Ap |
| 265 | 32 | 65.3 | 251 | 4 | US-10-293-418-1317 | Sequence 1317, Ap |
| 266 | 32 | 65.3 | 251 | 4 | US-10-293-418-1332 | Sequence 1332, Ap |
| 267 | 32 | 65.3 | 252 | 3 | US-09-880-748-988 | Sequence 988, App |
| 268 | 32 | 65.3 | 252 | 4 | US-10-293-418-988 | Sequence 988, App |
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| 270 | 32 | 65.3 | 283 | 4 | US-10-437-963-141542 | Sequence 141542, |
| 271 | 32 | 65.3 | 353 | 4 | US-10-425-114-55286 | Sequence 55286, A |
| 272 | 32 | 65.3 | 392 | 4 | US-10-369-493-17714 | Sequence 17714, A |
| 273 | 32 | 65.3 | 393 | 4 | US-10-422-366-10 | Sequence 10, Appl |
| 274 | 32 | 65.3 | 393 | 5 | US-10-925-216-10 | Sequence 10, Appl |
| 275 | 32 | 65.3 | 393 | 5 | US-10-903-582-10 | Sequence 10, Appl |
| 276 | 32 | 65.3 | 393 | 5 | US-10-918-401A-10 | Sequence 10, Appl |
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| 281 | 32 | 65.3 | 483 | 5 | US-10-732-923-3231 | Sequence 3231, Ap |
| 282 | 32 | 65.3 | 493 | 5 | US-10-732-923-3228 | Sequence 3228, Ap |
| 283 | 32 | 65.3 | 495 | 4 | US-10-424-599-211860 | Sequence 211860, |
| 284 | 32 | 65.3 | 496 | 4 | US-10-335-977-9490 | Sequence 9490, Ap |
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| 286 | 32 | 65.3 | 537 | 5 | US-10-732-923-3226 | Sequence 3226, Ap |
| 287 | 32 | 65.3 | 539 | 5 | US-10-732-923-3234 | Sequence 3234, Ap |
| 288 | 32 | 65.3 | 563 | 5 | US-10-732-923-3229 | Sequence 3229, Ap |
| 289 | 32 | 65.3 | 743 | 5 | US-10-450-763-54684 | Sequence 54684, A |
| 290 | 32 | 65.3 | 1186 | 6 | US-11-097-143-17340 | Sequence 17340, A |
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| 294 | 31 | 63.3 | 20 | 4 | US-10-293-418-3061 | Sequence 3061, Ap |
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| 296 | 31 | 63.3 | 38 | 4 | US-10-425-115-342428 | Sequence 342428, |
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| 317 | 31 | 63.3 | 250 | 4 | US-10-293-418-1548 | Sequence 1548, Ap |
| 318 | 31 | 63.3 | 251 | 3 | US-09-880-748-1555 | Sequence 1555, Ap |
| 319 | 31 | 63.3 | 251 | 3 | US-09-840-743-35 | Sequence 35, Appl |
| 320 | 31 | 63.3 | 251 | 4 | US-10-293-418-1555 | Sequence 1555, Ap |
| 321 | 31 | 63.3 | 252 | 3 | US-09-880-748-1362 | Sequence 1362, Ap |
| 322 | 31 | 63.3 | 252 | 4 | US-10-293-418-1362 | Sequence 1362, Ap |
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| 324 | 31 | 63.3 | 253 | 4 | US-10-293-418-994 | Sequence 994, App |
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| 335 | 31 | 63.3 | 491 | 4 | US-10-437-963-104421 | Sequence 104421, |
| 336 | 31 | 63.3 | 515 | 3 | US-09-801-368-384 | Sequence 384, App |
| 337 | 31 | 63.3 | 515 | 4 | US-10-369-493-1560 | Sequence 1560, Ap |
| 338 | 31 | 63.3 | 520 | 4 | US-10-142-143-8 | Sequence 8, Appli |
| 339 | 31 | 63.3 | 520 | 4 | US-10-642-248-64 | Sequence 64, Appl |
| 340 | 31 | 63.3 | 520 | 4 | US-10-814-752-8 | Sequence 8, Appli |
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| 342 | 31 | 63.3 | 542 | 4 | US-10-398-920-2 | Sequence 2, Appli |
| 343 | 31 | 63.3 | 554 | 4 | US-10-282-122A-57978 | Sequence 57978, A |
| 344 | 31 | 63.3 | 580 | 4 | US-10-398-920-17 | Sequence 17, Appl |
| 345 | 31 | 63.3 | 710 | 4 | US-10-437-963-190351 | Sequence 190351, |
| 346 | 31 | 63.3 | 877 | 4 | US-10-369-493-22547 | Sequence 22547, A |
| 347 | 31 | 63.3 | 959 | 5 | US-10-821-273-108 | Sequence 108, App |
| 348 | 31 | 63.3 | 1152 | 5 | US-10-848-755A-3 | Sequence 3, Appli |
| 349 | 31 | 63.3 | 1189 | 4 | US-10-437-963-127615 | Sequence 127615, |
| 350 | 31 | 63.3 | 1206 | 5 | US-10-732-923-22636 | Sequence 22636, A |
| 351 | 31 | 63.3 | 1206 | 5 | US-10-732-923-22637 | Sequence 22637, A |
| 352 | 31 | 63.3 | 1222 | 5 | US-10-732-923-22713 | Sequence 22713, A |
| 353 | 31 | 63.3 | 1275 | 4 | US-10-473-670-3 | Sequence 3, Appli |
| 354 | 31 | 63.3 | 1275 | 5 | US-10-840-512-192 | Sequence 192, App |
| 355 | 31 | 63.3 | 1314 | 4 | US-10-800-333-8 | Sequence 8, Appli |
| 356 | 31 | 63.3 | 1332 | 3 | US-09-840-743-11 | Sequence 11, Appl |
| 357 | 31 | 63.3 | 1421 | 4 | US-10-108-605-323 | Sequence 323, App |
| 358 | 31 | 63.3 | 1429 | 6 | US-11-097-143-41946 | Sequence 41946, A |
| 359 | 31 | 63.3 | 1432 | 5 | US-10-732-923-22583 | Sequence 22583, A |
| 360 | 31 | 63.3 | 1539 | 5 | US-10-840-512-207 | Sequence 207, App |
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| 364 | 30 | 61.2 | 10 | 5 | US-10-751-845-98 | Sequence 98, Appl |
| 365 | 30 | 61.2 | 15 | 4 | US-10-648-547-91 | Sequence 91, Appl |
| 366 | 30 | 61.2 | 15 | 4 | US-10-306-541-91 | Sequence 91, Appl |
| 367 | 30 | 61.2 | 19 | 3 | US-09-880-748-2885 | Sequence 2885, Ap |
| 368 | 30 | 61.2 | 19 | 4 | US-10-293-418-2885 | Sequence 2885, Ap |
| 369 | 30 | 61.2 | 20 | 3 | US-09-880-748-2747 | Sequence 2747, Ap |
| 370 | 30 | 61.2 | 20 | 4 | US-10-293-418-2747 | Sequence 2747, Ap |
| 371 | 30 | 61.2 | 20 | 4 | US-10-432-465-47 | Sequence 47, Appl |
| 372 | 30 | 61.2 | 20 | 5 | US-10-890-526-72 | Sequence 72, Appl |
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| 375 | 30 | 61.2 | 52 | 4 | US-10-425-115-269750 | Sequence 269750, |
| 376 | 30 | 61.2 | 53 | 4 | US-10-425-115-208353 | Sequence 208353, |
| 377 | 30 | 61.2 | 61 | 4 | US-10-424-599-182099 | Sequence 182099, |
| 378 | 30 | 61.2 | 62 | 4 | US-10-424-599-280001 | Sequence 280001, |
| 379 | 30 | 61.2 | 62 | 4 | US-10-425-115-268636 | Sequence 268636, |
| 380 | 30 | 61.2 | 67 | 4 | US-10-424-599-162569 | Sequence 162569, |
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| 383 | 30 | 61.2 | 84 | 4 | US-10-424-599-244145 | Sequence 244145, |
| 384 | 30 | 61.2 | 90 | 4 | US-10-425-115-214623 | Sequence 214623, |
| 385 | 30 | 61.2 | 91 | 4 | US-10-424-599-206884 | Sequence 206884, |
| 386 | 30 | 61.2 | 94 | 4 | US-10-424-599-171895 | Sequence 171895, |
| 387 | 30 | 61.2 | 99 | 3 | US-09-864-408A-7518 | Sequence 7518, Ap |
| 388 | 30 | 61.2 | 102 | 4 | US-10-425-115-309265 | Sequence 309265, |
| 389 | 30 | 61.2 | 105 | 4 | US-10-425-115-235003 | Sequence 235003, |
| 390 | 30 | 61.2 | 108 | 4 | US-10-424-599-279259 | Sequence 279259, |
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| 393 | 30 | 61.2 | 131 | 4 | US-10-425-115-267711 | Sequence 267711, |
| 394 | 30 | 61.2 | 132 | 4 | US-10-424-599-229061 | Sequence 229061, |
| 395 | 30 | 61.2 | 137 | 4 | US-10-767-701-59527 | Sequence 59527, A |
| 396 | 30 | 61.2 | 150 | 4 | US-10-767-701-59172 | Sequence 59172, A |
| 397 | 30 | 61.2 | 151 | 4 | US-10-767-701-53516 | Sequence 53516, A |
| 398 | 30 | 61.2 | 157 | 4 | US-10-369-493-4156 | Sequence 4156, Ap |
| 399 | 30 | 61.2 | 157 | 4 | US-10-424-599-184527 | Sequence 184527, |
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| 401 | 30 | 61.2 | 179 | 4 | US-10-425-115-244609 | Sequence 244609, |
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| 403 | 30 | 61.2 | 183 | 4 | US-10-437-963-202547 | Sequence 202547, |
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| 530 | 30 | 61.2 | 651 | 4 | US-10-173-999-127 | Sequence 127, App |
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| 563 | 29 | 59.2 | 9 | 5 | US-10-871-138-86 | Sequence 86, Appl |
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| 914 | 29 | 59.2 | 345 | 4 | US-10-152-397-286 | Sequence 286, App |
| 915 | 29 | 59.2 | 345 | 4 | US-10-153-586-286 | Sequence 286, App |
| 916 | 29 | 59.2 | 345 | 4 | US-10-158-786-286 | Sequence 286, App |
| 917 | 29 | 59.2 | 345 | 4 | US-10-143-031A-488 | Sequence 488, App |
| 918 | 29 | 59.2 | 345 | 4 | US-10-137-870-286 | Sequence 286, App |
| 919 | 29 | 59.2 | 345 | 4 | US-10-140-018-286 | Sequence 286, App |
| 920 | 29 | 59.2 | 345 | 4 | US-10-140-021-286 | Sequence 286, App |
| 921 | 29 | 59.2 | 345 | 4 | US-10-140-471-286 | Sequence 286, App |
| 922 | 29 | 59.2 | 345 | 4 | US-10-140-922-286 | Sequence 286, App |
| 923 | 29 | 59.2 | 345 | 4 | US-10-145-631-286 | Sequence 286, App |
| 924 | 29 | 59.2 | 345 | 4 | US-10-145-633-286 | Sequence 286, App |
| 925 | 29 | 59.2 | 345 | 4 | US-10-158-783-286 | Sequence 286, App |
| 926 | 29 | 59.2 | 345 | 4 | US-10-140-274-286 | Sequence 286, App |
| 927 | 29 | 59.2 | 345 | 4 | US-10-143-030A-488 | Sequence 488, App |
| 928 | 29 | 59.2 | 345 | 4 | US-10-002-967A-488 | Sequence 488, App |
| 929 | 29 | 59.2 | 345 | 4 | US-10-017-083A-488 | Sequence 488, App |
| 930 | 29 | 59.2 | 345 | 4 | US-10-140-019-286 | Sequence 286, App |
| 931 | 29 | 59.2 | 345 | 4 | US-10-140-022-286 | Sequence 286, App |
| 932 | 29 | 59.2 | 345 | 4 | US-10-140-861-286 | Sequence 286, App |
| 933 | 29 | 59.2 | 345 | 4 | US-10-140-862-286 | Sequence 286, App |
| 934 | 29 | 59.2 | 345 | 4 | US-10-141-697-286 | Sequence 286, App |
| 935 | 29 | 59.2 | 345 | 4 | US-10-141-700-286 | Sequence 286, App |
| 936 | 29 | 59.2 | 345 | 4 | US-10-141-705-286 | Sequence 286, App |
| 937 | 29 | 59.2 | 345 | 4 | US-10-141-753-286 | Sequence 286, App |
| 938 | 29 | 59.2 | 345 | 4 | US-10-141-758-286 | Sequence 286, App |
| 939 | 29 | 59.2 | 345 | 4 | US-10-142-418-286 | Sequence 286, App |
| 940 | 29 | 59.2 | 345 | 4 | US-10-142-420-286 | Sequence 286, App |
| 941 | 29 | 59.2 | 345 | 4 | US-10-142-422-286 | Sequence 286, App |
| 942 | 29 | 59.2 | 345 | 4 | US-10-142-427-286 | Sequence 286, App |
| 943 | 29 | 59.2 | 345 | 4 | US-10-142-760-286 | Sequence 286, App |
| 944 | 29 | 59.2 | 345 | 4 | US-10-145-821-286 | Sequence 286, App |
| 945 | 29 | 59.2 | 345 | 4 | US-10-152-531-286 | Sequence 286, App |
| 946 | 29 | 59.2 | 345 | 4 | US-10-127-840A-286 | Sequence 286, App |
| 947 | 29 | 59.2 | 345 | 4 | US-10-142-424-286 | Sequence 286, App |
| 948 | 29 | 59.2 | 345 | 4 | US-10-142-761-286 | Sequence 286, App |
| 949 | 29 | 59.2 | 345 | 4 | US-10-142-763-286 | Sequence 286, App |
| 950 | 29 | 59.2 | 345 | 4 | US-10-142-765-286 | Sequence 286, App |
| 951 | 29 | 59.2 | 345 | 4 | US-10-142-887-286 | Sequence 286, App |
| 952 | 29 | 59.2 | 345 | 4 | US-10-142-888-286 | Sequence 286, App |
| 953 | 29 | 59.2 | 345 | 4 | US-10-143-034-286 | Sequence 286, App |
| 954 | 29 | 59.2 | 345 | 4 | US-10-143-116-286 | Sequence 286, App |
| 955 | 29 | 59.2 | 345 | 4 | US-10-144-957-286 | Sequence 286, App |
| 956 | 29 | 59.2 | 345 | 4 | US-10-144-992-286 | Sequence 286, App |
| 957 | 29 | 59.2 | 345 | 4 | US-10-145-015-286 | Sequence 286, App |
| 958 | 29 | 59.2 | 345 | 4 | US-10-145-090-286 | Sequence 286, App |
| 959 | 29 | 59.2 | 345 | 4 | US-10-145-091-286 | Sequence 286, App |
| 960 | 29 | 59.2 | 345 | 4 | US-10-145-128A-488 | Sequence 488, App |
| 961 | 29 | 59.2 | 345 | 4 | US-10-145-629-286 | Sequence 286, App |
| 962 | 29 | 59.2 | 345 | 4 | US-10-145-630-286 | Sequence 286, App |
| 963 | 29 | 59.2 | 345 | 4 | US-10-145-747-286 | Sequence 286, App |
| 964 | 29 | 59.2 | 345 | 4 | US-10-145-752-286 | Sequence 286, App |
| 965 | 29 | 59.2 | 345 | 4 | US-10-145-754-286 | Sequence 286, App |
| 966 | 29 | 59.2 | 345 | 4 | US-10-145-755-286 | Sequence 286, App |
| 967 | 29 | 59.2 | 345 | 4 | US-10-145-818-286 | Sequence 286, App |
| 968 | 29 | 59.2 | 345 | 4 | US-10-145-820-286 | Sequence 286, App |
| 969 | 29 | 59.2 | 345 | 4 | US-10-145-872-286 | Sequence 286, App |
| 970 | 29 | 59.2 | 345 | 4 | US-10-145-873-286 | Sequence 286, App |
| 971 | 29 | 59.2 | 345 | 4 | US-10-147-481-286 | Sequence 286, App |
| 972 | 29 | 59.2 | 345 | 4 | US-10-147-482-286 | Sequence 286, App |
| 973 | 29 | 59.2 | 345 | 4 | US-10-147-503-286 | Sequence 286, App |
| 974 | 29 | 59.2 | 345 | 4 | US-10-147-522-286 | Sequence 286, App |
| 975 | 29 | 59.2 | 345 | 4 | US-10-152-401-286 | Sequence 286, App |
| 976 | 29 | 59.2 | 345 | 4 | US-10-157-783-286 | Sequence 286, App |

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| 977 | 29 | 59.2 | 345 | 4 | US-10-158-792-286 | Sequence 286, App |
| 978 | 29 | 59.2 | 345 | 4 | US-10-158-462-286 | Sequence 286, App |
| 979 | 29 | 59.2 | 345 | 4 | US-10-143-035-286 | Sequence 286, App |
| 980 | 29 | 59.2 | 345 | 4 | US-10-145-751-286 | Sequence 286, App |
| 981 | 29 | 59.2 | 345 | 4 | US-10-145-822-286 | Sequence 286, App |
| 982 | 29 | 59.2 | 345 | 4 | US-10-145-824-286 | Sequence 286, App |
| 983 | 29 | 59.2 | 345 | 4 | US-10-145-827-286 | Sequence 286, App |
| 984 | 29 | 59.2 | 345 | 4 | US-10-145-869-286 | Sequence 286, App |
| 985 | 29 | 59.2 | 345 | 4 | US-10-145-875-286 | Sequence 286, App |
| 986 | 29 | 59.2 | 345 | 4 | US-10-145-877-286 | Sequence 286, App |
| 987 | 29 | 59.2 | 345 | 4 | US-10-145-958-286 | Sequence 286, App |
| 988 | 29 | 59.2 | 345 | 4 | US-10-146-787-286 | Sequence 286, App |
| 989 | 29 | 59.2 | 345 | 4 | US-10-146-790-286 | Sequence 286, App |
| 990 | 29 | 59.2 | 345 | 4 | US-10-146-793-286 | Sequence 286, App |
| 991 | 29 | 59.2 | 345 | 4 | US-10-147-480-286 | Sequence 286, App |
| 992 | 29 | 59.2 | 345 | 4 | US-10-147-485-286 | Sequence 286, App |
| 993 | 29 | 59.2 | 345 | 4 | US-10-147-486-286 | Sequence 286, App |
| 994 | 29 | 59.2 | 345 | 4 | US-10-147-487-286 | Sequence 286, App |
| 995 | 29 | 59.2 | 345 | 4 | US-10-147-490-286 | Sequence 286, App |
| 996 | 29 | 59.2 | 345 | 4 | US-10-147-494-286 | Sequence 286, App |
| 997 | 29 | 59.2 | 345 | 4 | US-10-147-498-286 | Sequence 286, App |
| 998 | 29 | 59.2 | 345 | 4 | US-10-147-514-286 | Sequence 286, App |
| 999 | 29 | 59.2 | 345 | 4 | US-10-147-524-286 | Sequence 286, App |
| 1000 | 29 | 59.2 | 345 | 4 | US-10-152-379-286 | Sequence 286, App |

ALIGNMENTS

```
RESULT 1
US-09-891-823-48
; Sequence 48, Application US/09891823
; Publication No. US20020110566A1
; GENERAL INFORMATION:
;  APPLICANT: Neefe, John R.
;  APPLICANT:  Boux, Leslie J.
;  APPLICANT:  Winnett, Mark T.
;  APPLICANT:  Goldstone, Stephen E.
;  APPLICANT:  Siegel, Marvin
;  TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
;  FILE REFERENCE: 12071-003001
;  CURRENT APPLICATION NUMBER: US/09/891,823
;  CURRENT FILING DATE:  2001-10-19
;  PRIOR APPLICATION NUMBER: US 60/214,202
;  PRIOR FILING DATE: 2000-06-26
;  NUMBER OF SEQ ID NOS: 140
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 48
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papilloma virus
US-09-891-823-48

  Query Match             100.0%;  Score 49;  DB 3;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.7e+06;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          1 RAHYNIVTF 9


RESULT 2
US-09-888-721-4
; Sequence 4, Application US/09888721
; Patent No. US20020132990A1
; GENERAL INFORMATION:
;  APPLICANT: Huston, James S.
;  APPLICANT:  Wils, Pierre
;  APPLICANT:  Zhu, Quan
;  APPLICANT:  Laurent, Olivier
;  APPLICANT:  Marasco, Wayne A.
;  APPLICANT:  Scherman, Daniel
;  TITLE OF INVENTION: BIOENGINEERED VEHICLES FOR TARGETED NUCLEIC ACID
;  TITLE OF INVENTION:  DELIVERY
;  FILE REFERENCE: 23611-A USA
;  CURRENT APPLICATION NUMBER: US/09/888,721
;  CURRENT FILING DATE:  2001-06-25
;  PRIOR APPLICATION NUMBER: 60/213,653
;  PRIOR FILING DATE: 2000-06-23
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-09-888-721-4

  Query Match             100.0%;  Score 49;  DB 3;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.7e+06;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          1 RAHYNIVTF 9


RESULT 3
US-09-077-439A-1
; Sequence 1, Application US/09077439A
; Publication No. US20030202989A1
; GENERAL INFORMATION:
;  APPLICANT: Collier, R. John
;  APPLICANT:  Blanke, Steven R.
;  APPLICANT:  Milne, Jill C.
;  APPLICANT:  Benson, Ericka L.
;  APPLICANT:  Ballard, Jimmy D.
;  APPLICANT:  Starnbach, Michael N.
;  TITLE OF INVENTION: Use of Toxin Peptides and/or Affinity
;  TITLE OF INVENTION:  Handles for Delivering Compounds into Cells
;  FILE REFERENCE: 00246/187002
;  CURRENT APPLICATION NUMBER: US/09/077,439A
;  CURRENT FILING DATE:  1999-04-08
;  PRIOR APPLICATION NUMBER: PCT/US96/20463
;  PRIOR FILING DATE: 1996-12-13
;  PRIOR APPLICATION NUMBER: US 60/019,275
;  PRIOR FILING DATE: 1996-06-07
;  PRIOR APPLICATION NUMBER: US 60/008,518
;  PRIOR FILING DATE: 1995-12-13
;  NUMBER OF SEQ ID NOS: 26
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-09-077-439A-1

  Query Match             100.0%;  Score 49;  DB 3;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.7e+06;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          1 RAHYNIVTF 9


RESULT 4
US-10-227-789-3
; Sequence 3, Application US/10227789
; Publication No. US20030022860A1
; GENERAL INFORMATION:
;  APPLICANT: MELIEF, Cornelius
;  APPLICANT:  Schoenberger, Stephen
;  APPLICANT:  Offringa, Rienk
;  APPLICANT:  Toes, Rene
;  TITLE OF INVENTION: CD-40 Binding Molecules and CTL Peptides for Treating
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; TITLE OF INVENTION: Tumors
; FILE REFERENCE: TNX 98-04
; CURRENT APPLICATION NUMBER: US/10/227,789
; CURRENT FILING DATE: 2002-08-26
; PRIOR APPLICATION NUMBER: US/09/316,935
; PRIOR FILING DATE: 1999-05-22
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma Virus Type 16 E7 derived peptide
US-10-227-789-3

Query Match 100.0%; Score 49; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
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Db 1 RAHYNIVTF 9

RESULT 5
US-10-115-620-3
; Sequence 3, Application US/10115620
; Publication No. US20030118588A1
; GENERAL INFORMATION:
; APPLICANT: MELIEF, Cornelius
; APPLICANT: Schoenberger, Stephen
; APPLICANT: Offringa, Rienk
; APPLICANT: Toes, Rene
; TITLE OF INVENTION: CD-40 Binding Molecules and CTL Peptides for Treating Tumors
; FILE REFERENCE: TNX 98-04
; CURRENT APPLICATION NUMBER: US/10/115,620
; CURRENT FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: US/09/316,935
; PRIOR FILING DATE: 1999-05-22
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma Virus Type 16 E7 derived peptide
US-10-115-620-3

Query Match 100.0%; Score 49; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
||||||||| 
Db 1 RAHYNIVTF 9

RESULT 6
US-10-365-908-48
; Sequence 48, Application US/10365908
; Publication No. US20030170268A1
; GENERAL INFORMATION:
; APPLICANT: Neefe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/365,908
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 48
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-365-908-48

Query Match 100.0%; Score 49; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
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Db 1 RAHYNIVTF 9

RESULT 7
US-10-406-818-3
; Sequence 3, Application US/10406818
; Publication No. US20040005711A1
; GENERAL INFORMATION:
; APPLICANT: Regts, Geesje D.
; APPLICANT: Holtrop, Marijke
; APPLICANT: Wilschut, Christiaan J.
; APPLICANT: Daemen, Arnoldine C.
; TITLE OF INVENTION: GENETIC IMMUNIZATION AGAINST CERVICAL CARCINOMA
; FILE REFERENCE: 2183-5920
; CURRENT APPLICATION NUMBER: US/10/406,818
; CURRENT FILING DATE: 2003-04-04
; PRIOR APPLICATION NUMBER: PCT/NL01/00740
; PRIOR FILING DATE: 2001-10-08
; PRIOR APPLICATION NUMBER: EP 00203472.6
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthesized peptide originating from E7, binds to HPV16 H-2Db
US-10-406-818-3

Query Match 100.0%; Score 49; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
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Db 1 RAHYNIVTF 9

RESULT 8
US-10-367-580-93
; Sequence 93, Application US/10367580
; Publication No. US20040071720A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takechi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461061
; CURRENT APPLICATION NUMBER: US/10/367,580
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 09/794,832
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363

; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; PRIOR FILING DATE: 1995-08-18
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 93
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide
US-10-367-580-93

Query Match 100.0%; Score 49; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
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Db 1 RAHYNIVTF 9

RESULT 9
US-10-367-593-93
; Sequence 93, Application US/10367593
; Publication No. US20040071721A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takechi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461012
; CURRENT APPLICATION NUMBER: US/10/367,593
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363
; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; PRIOR FILING DATE: 1995-08-18
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 93
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide
US-10-367-593-93

Query Match 100.0%; Score 49; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
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Db 1 RAHYNIVTF 9

RESULT 10
US-10-367-594-93
; Sequence 93, Application US/10367594
; Publication No. US20040071722A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takechi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461041
; CURRENT APPLICATION NUMBER: US/10/367,594
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 09/680,806
; PRIOR FILING DATE: 2000-10-05
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363
; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; PRIOR FILING DATE: 1995-08-18
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 93
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide
US-10-367-594-93

Query Match 100.0%; Score 49; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
||||||||| 
Db 1 RAHYNIVTF 9

RESULT 11
US-10-367-654-93
; Sequence 93, Application US/10367654
; Publication No. US20040071723A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takechi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461032
; CURRENT APPLICATION NUMBER: US/10/367,654
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 10/171,734
; PRIOR FILING DATE: 2002-06-13
; PRIOR APPLICATION NUMBER: US 09/636,295
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363
; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; PRIOR FILING DATE: 1995-08-18
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 93
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide
US-10-367-654-93

Query Match 100.0%; Score 49; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 RAHYNIVTF 9
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Db          1 RAHYNIVTF 9
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RESULT 12
US-10-367-658-93
; Sequence 93, Application US/10367658
; Publication No. US20040071724A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takechi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461051
; CURRENT APPLICATION NUMBER: US/10/367,658
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 09/794,529
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363
; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; PRIOR FILING DATE: 1995-08-18
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 93
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide
US-10-367-658-93

Query Match 100.0%; Score 49; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 RAHYNIVTF 9
              |||||||||
Db          1 RAHYNIVTF 9
```

RESULT 13
US-10-367-668-93
; Sequence 93, Application US/10367668
; Publication No. US20040071725A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takechi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461072
; CURRENT APPLICATION NUMBER: US/10/367,668
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 09/794,517
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363
; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; PRIOR FILING DATE: 1995-08-18
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 93
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide
US-10-367-668-93

Query Match 100.0%; Score 49; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 RAHYNIVTF 9
              |||||||||
Db          1 RAHYNIVTF 9
```

RESULT 14
US-10-367-674-93
; Sequence 93, Application US/10367674
; Publication No. US20040127684A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takechi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/4610211
; CURRENT APPLICATION NUMBER: US/10/367,674
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 10/170,738
; PRIOR FILING DATE: 2002-06-13
; PRIOR APPLICATION NUMBER: US 09/552,868
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363
; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; PRIOR FILING DATE: 1995-08-18
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 93
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide
US-10-367-674-93

Query Match 100.0%; Score 49; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 RAHYNIVTF 9
              |||||||||
Db          1 RAHYNIVTF 9
```

RESULT 15
US-10-777-053-331

```
; Sequence 331, Application US/10777053
; Publication No. US20040132088A1
; GENERAL INFORMATION:
;  APPLICANT: Simard, John J. L.
;  APPLICANT:  Diamond, David C.
;  APPLICANT:  Qiu, Zhiyong
;  APPLICANT:  Lei, Xiang-Dong
;  TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
;  TITLE OF INVENTION:  TARGET-ASSOCIATED ANTIGENS AND METHODS FOR THEIR DESIGN
;  FILE REFERENCE: MANNK.022C1
;  CURRENT APPLICATION NUMBER: US/10/777,053
;  CURRENT FILING DATE:  2004-02-10
;  PRIOR APPLICATION NUMBER: 10/292,413
;  PRIOR FILING DATE: 2002-11-07
;  PRIOR APPLICATION NUMBER: 60/336,968
;  PRIOR FILING DATE: 2001-11-07
;  NUMBER OF SEQ ID NOS: 979
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 331
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus 16
US-10-777-053-331

  Query Match             100.0%;  Score 49;  DB 4;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.7e+06;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          1 RAHYNIVTF 9


RESULT 16
US-10-648-547-49
; Sequence 49, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/9
;  CURRENT APPLICATION NUMBER: US/10/648,547
;  CURRENT FILING DATE:  2003-08-25
;  PRIOR APPLICATION NUMBER: 10/306,541
;  PRIOR FILING DATE: 11-25-2002
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 11-23-2001
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 49
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-648-547-49

  Query Match             100.0%;  Score 49;  DB 4;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.7e+06;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          1 RAHYNIVTF 9


RESULT 17
US-10-306-541-49
; Sequence 49, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/4
;  CURRENT APPLICATION NUMBER: US/10/306,541
;  CURRENT FILING DATE:  2003-11-25
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 2001-11-23
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 49
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-306-541-49

  Query Match             100.0%;  Score 49;  DB 4;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.7e+06;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          1 RAHYNIVTF 9


RESULT 18
US-10-837-217-331
; Sequence 331, Application US/10837217
; Publication No. US20040203051A1
; GENERAL INFORMATION:
;  APPLICANT: Simard, John J. L.
;  APPLICANT:  Diamond, David C.
;  APPLICANT:  Qiu, Zhiyong
;  APPLICANT:  Lei, Xiang-Dong
;  TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
;  TITLE OF INVENTION:  TARGET-ASSOCIATED ANTIGENS AND METHODS FOR THEIR DESIGN
;  FILE REFERENCE: MANNK.022C2
;  CURRENT APPLICATION NUMBER: US/10/837,217
;  CURRENT FILING DATE:  2004-04-30
;  PRIOR APPLICATION NUMBER: 10/292,413
;  PRIOR FILING DATE: 2002-11-07
;  PRIOR APPLICATION NUMBER: 60/336,968
;  PRIOR FILING DATE: 2001-11-07
;  NUMBER OF SEQ ID NOS: 979
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 331
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus 16
US-10-837-217-331

  Query Match             100.0%;  Score 49;  DB 4;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.7e+06;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          1 RAHYNIVTF 9


RESULT 19
US-10-871-138-48
; Sequence 48, Application US/10871138
; Publication No. US20040235741A1
; GENERAL INFORMATION:
;  APPLICANT: Neefe, John R.
;  APPLICANT:  Boux, Leslie J.
;  APPLICANT:  Winnett, Mark T.
;  APPLICANT:  Goldstone, Stephen E.
;  APPLICANT:  Siegel, Marvin
;  TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
;  FILE REFERENCE: 12071-003001
;  CURRENT APPLICATION NUMBER: US/10/871,138
;  CURRENT FILING DATE:  2004-06-18
;  PRIOR APPLICATION NUMBER: US/09/891,823
;  PRIOR FILING DATE: 2001-06-26
```

; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 48
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-871-138-48

Query Match 100.0%; Score 49; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
||||||||| 
Db 1 RAHYNIVTF 9

RESULT 20
US-10-484-063-15
; Sequence 15, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-15

Query Match 100.0%; Score 49; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
||||||||| 
Db 1 RAHYNIVTF 9

RESULT 21
US-10-844-711-9
; Sequence 9, Application US/10844711
; Publication No. US20050063982A1
; GENERAL INFORMATION:
; APPLICANT: Argon, Yair
; APPLICANT: Gidalevitz, Tali
; APPLICANT: Biswas, Chhanda
; APPLICANT: Simen, Birgitte B.
; APPLICANT: Wanderling, Sherry
; APPLICANT: Ostrovsky, Olga
; TITLE OF INVENTION: GRP94-BASED COMPOSITIONS AND METHODS OF
; TITLE OF INVENTION: USE THEREOF
; FILE REFERENCE: 3460-CHOP.C-206US
; CURRENT APPLICATION NUMBER: US/10/844,711
; CURRENT FILING DATE: 2004-05-12
; PRIOR APPLICATION NUMBER: 60/469,723
; PRIOR FILING DATE: 2003-05-12
; PRIOR APPLICATION NUMBER: 60/477,990
; PRIOR FILING DATE: 2003-06-12
; PRIOR APPLICATION NUMBER: 60/478,149
; PRIOR FILING DATE: 2003-06-12
; PRIOR APPLICATION NUMBER: 60/556,362
; PRIOR FILING DATE: 2004-04-28
; PRIOR APPLICATION NUMBER: 60/566,363
; PRIOR FILING DATE: 2004-04-28
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 9
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: RAH
US-10-844-711-9

Query Match 100.0%; Score 49; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
||||||||| 
Db 1 RAHYNIVTF 9

RESULT 22
US-10-751-845-109
; Sequence 109, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 109
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-109

Query Match 100.0%; Score 49; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
||||||||| 
Db 1 RAHYNIVTF 9

RESULT 23
US-10-835-662-22
; Sequence 22, Application US/10835662
; Publication No. US20050118184A1
; GENERAL INFORMATION:
; APPLICANT: Paterson, Yvonne
; APPLICANT: Peters, Christian
; APPLICANT: Gunn, George
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ENHANCING THE IMMUNOGENICITY OF
; TITLE OF INVENTION: ANTIGENS
; FILE REFERENCE: 057907-5002-03
; CURRENT APPLICATION NUMBER: US/10/835,662
; CURRENT FILING DATE: 2004-04-30

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;  PRIOR APPLICATION NUMBER: US 10/239,703
;  PRIOR FILING DATE: 2002-11-24
;  PRIOR APPLICATION NUMBER: US 09/537,642
;  PRIOR FILING DATE: 2000-03-29
;  PRIOR APPLICATION NUMBER: US 09/735,450
;  PRIOR FILING DATE: 2000-12-13
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 22
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-835-662-22

  Query Match           100.0%;  Score 49;  DB 5;  Length 9;
  Best Local Similarity  100.0%;  Pred. No. 1.7e+06;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          1 RAHYNIVTF 9


RESULT 24
US-10-776-521B-72
; Sequence 72, Application US/10776521B
; Publication No. US20050202033A1
; GENERAL INFORMATION:
;  APPLICANT: Fletchner, Jessica
;  APPLICANT:  Prince-Cohane, Kenya
;  APPLICANT:  Mehta, Sunil
;  APPLICANT:  Slusarewicz, Paul
;  APPLICANT:  Andjelic, Sofija
;  APPLICANT:  Barber, Brian
;  TITLE OF INVENTION: IMPROVED HEAT SHOCK PROTEIN-BASED VACCINES AND
;  TITLE OF INVENTION:  IMMUNOTHERAPIES
;  FILE REFERENCE: 8449-405-999
;  CURRENT APPLICATION NUMBER: US/10/776,521B
;  CURRENT FILING DATE:  2004-02-12
;  PRIOR APPLICATION NUMBER: 60/503,417
;  PRIOR FILING DATE: 2003-09-16
;  PRIOR APPLICATION NUMBER: 60/463,746
;  PRIOR FILING DATE: 2003-04-18
;  PRIOR APPLICATION NUMBER: 60/462,469
;  PRIOR FILING DATE: 2003-04-11
;  PRIOR APPLICATION NUMBER: 60/447,142
;  PRIOR FILING DATE: 2003-02-13
;  NUMBER OF SEQ ID NOS: 419
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 72
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human Papilloma Virus
US-10-776-521B-72

  Query Match           100.0%;  Score 49;  DB 5;  Length 9;
  Best Local Similarity  100.0%;  Pred. No. 1.7e+06;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          1 RAHYNIVTF 9


RESULT 25
US-10-820-067A-72
; Sequence 72, Application US/10820067A
; Publication No. US20050214312A1
; GENERAL INFORMATION:
;  APPLICANT: Fletchner, J.
;  APPLICANT:  Prince-Cohane, K.
;  APPLICANT:  Mehta, S.
;  APPLICANT:  Slusarewicz, P.
;  APPLICANT:  Andjelic, S.
;  APPLICANT:  Barber, B.
;  TITLE OF INVENTION: IMPROVED HEAT SHOCK PROTEIN-BASED
;  TITLE OF INVENTION:  VACCINES AND IMMUNOTHERAPIES
;  FILE REFERENCE: 8449-406-999
;  CURRENT APPLICATION NUMBER: US/10/820,067A
;  CURRENT FILING DATE:  2004-04-08
;  PRIOR APPLICATION NUMBER: 60/462,469
;  PRIOR FILING DATE: 2003-04-11
;  PRIOR APPLICATION NUMBER: 60/463,746
;  PRIOR FILING DATE: 2003-04-18
;  PRIOR APPLICATION NUMBER: 60/503,417
;  PRIOR FILING DATE: 2003-09-16
;  NUMBER OF SEQ ID NOS: 926
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 72
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human Papilloma Virus
US-10-820-067A-72

  Query Match           100.0%;  Score 49;  DB 5;  Length 9;
  Best Local Similarity  100.0%;  Pred. No. 1.7e+06;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          1 RAHYNIVTF 9


RESULT 26
US-09-891-823-32
; Sequence 32, Application US/09891823
; Publication No. US20020110566A1
; GENERAL INFORMATION:
;  APPLICANT: Neefe, John R.
;  APPLICANT:  Boux, Leslie J.
;  APPLICANT:  Winnett, Mark T.
;  APPLICANT:  Goldstone, Stephen E.
;  APPLICANT:  Siegel, Marvin
;  TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
;  FILE REFERENCE: 12071-003001
;  CURRENT APPLICATION NUMBER: US/09/891,823
;  CURRENT FILING DATE:  2001-10-19
;  PRIOR APPLICATION NUMBER: US 60/214,202
;  PRIOR FILING DATE: 2000-06-26
;  NUMBER OF SEQ ID NOS: 140
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 32
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papilloma virus
US-09-891-823-32

  Query Match           100.0%;  Score 49;  DB 3;  Length 10;
  Best Local Similarity  100.0%;  Pred. No. 0.011;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          2 RAHYNIVTF 10


RESULT 27
US-10-365-908-32
; Sequence 32, Application US/10365908
; Publication No. US20030170268A1
; GENERAL INFORMATION:
;  APPLICANT: Neefe, John R.
;  APPLICANT:  Boux, Leslie J.
;  APPLICANT:  Winnett, Mark T.
;  APPLICANT:  Goldstone, Stephen E.
;  APPLICANT:  Siegel, Marvin
```

```
;  TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
;  FILE REFERENCE: 12071-003001
;  CURRENT APPLICATION NUMBER: US/10/365,908
;  CURRENT FILING DATE:  2003-02-13
;  PRIOR APPLICATION NUMBER: US/09/891,823
;  PRIOR FILING DATE: 2001-10-19
;  PRIOR APPLICATION NUMBER: US 60/214,202
;  PRIOR FILING DATE: 2000-06-26
;  NUMBER OF SEQ ID NOS: 140
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 32
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papilloma virus
US-10-365-908-32

  Query Match             100.0%;  Score 49;  DB 4;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.011;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          2 RAHYNIVTF 10


RESULT 28
US-10-648-547-53
; Sequence 53, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/9
;  CURRENT APPLICATION NUMBER: US/10/648,547
;  CURRENT FILING DATE:  2003-08-25
;  PRIOR APPLICATION NUMBER: 10/306,541
;  PRIOR FILING DATE: 11-25-2002
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 11-23-2001
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 53
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-648-547-53

  Query Match             100.0%;  Score 49;  DB 4;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.011;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          2 RAHYNIVTF 10


RESULT 29
US-10-306-541-53
; Sequence 53, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
;  APPLICANT: Mittelman, Abraham
;  APPLICANT:  Kanduc, Darja
;  TITLE OF INVENTION: Improved Antigens
;  FILE REFERENCE: 12354/4
;  CURRENT APPLICATION NUMBER: US/10/306,541
;  CURRENT FILING DATE:  2003-11-25
;  PRIOR APPLICATION NUMBER: 60/333,249
;  PRIOR FILING DATE: 2001-11-23
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 53
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: human papillomavirus
US-10-306-541-53

  Query Match             100.0%;  Score 49;  DB 4;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.011;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          2 RAHYNIVTF 10


RESULT 30
US-10-871-138-32
; Sequence 32, Application US/10871138
; Publication No. US20040235741A1
; GENERAL INFORMATION:
;  APPLICANT: Neefe, John R.
;  APPLICANT:  Boux, Leslie J.
;  APPLICANT:  Winnett, Mark T.
;  APPLICANT:  Goldstone, Stephen E.
;  APPLICANT:  Siegel, Marvin
;  TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
;  FILE REFERENCE: 12071-003001
;  CURRENT APPLICATION NUMBER: US/10/871,138
;  CURRENT FILING DATE:  2004-06-18
;  PRIOR APPLICATION NUMBER: US/09/891,823
;  PRIOR FILING DATE: 2001-06-26
;  PRIOR APPLICATION NUMBER: US 60/214,202
;  PRIOR FILING DATE: 2000-06-26
;  NUMBER OF SEQ ID NOS: 140
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 32
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Human papilloma virus
US-10-871-138-32

  Query Match             100.0%;  Score 49;  DB 5;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.011;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          2 RAHYNIVTF 10


RESULT 31
US-10-654-200-51
; Sequence 51, Application US/10654200
; Publication No. US20040170606A1
; GENERAL INFORMATION:
;  APPLICANT: Large Scale Biology Corporation
;  TITLE OF INVENTION: PRODUCTION OF PEPTIDES IN PLANTS AS VIRAL COAT PROTEIN FUSIONS
;  FILE REFERENCE: N9739
;  CURRENT APPLICATION NUMBER: US/10/654,200
;  CURRENT FILING DATE:  2003-09-03
;  PRIOR APPLICATION NUMBER: 60/407,795
;  PRIOR FILING DATE: 2002-09-03
;  PRIOR APPLICATION NUMBER: 60/386,921
;  PRIOR FILING DATE: 2002-06-07
;  PRIOR APPLICATION NUMBER: 10/457,082
;  PRIOR FILING DATE: 2003-06-06
;  NUMBER OF SEQ ID NOS: 106
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 51
;   LENGTH: 12
;   TYPE: PRT
;   ORGANISM: Human Papilloma Virus
US-10-654-200-51
```

```
  Query Match            100.0%;  Score 49;  DB 4;  Length 12;
  Best Local Similarity  100.0%;  Pred. No. 0.014;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          2 RAHYNIVTF 10


RESULT 32
US-10-654-200-52
; Sequence 52, Application US/10654200
; Publication No. US20040170606A1
; GENERAL INFORMATION:
;  APPLICANT: Large Scale Biology Corporation
;  TITLE OF INVENTION: PRODUCTION OF PEPTIDES IN PLANTS AS VIRAL COAT PROTEIN FUSIONS
;  FILE REFERENCE: N9739
;  CURRENT APPLICATION NUMBER: US/10/654,200
;  CURRENT FILING DATE:  2003-09-03
;  PRIOR APPLICATION NUMBER: 60/407,795
;  PRIOR FILING DATE: 2002-09-03
;  PRIOR APPLICATION NUMBER: 60/386,921
;  PRIOR FILING DATE: 2002-06-07
;  PRIOR APPLICATION NUMBER: 10/457,082
;  PRIOR FILING DATE: 2003-06-06
;  NUMBER OF SEQ ID NOS: 106
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 52
;   LENGTH: 13
;   TYPE: PRT
;   ORGANISM: Human Papilloma Virus
US-10-654-200-52

  Query Match            100.0%;  Score 49;  DB 4;  Length 13;
  Best Local Similarity  100.0%;  Pred. No. 0.015;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          3 RAHYNIVTF 11


RESULT 33
US-10-654-200-53
; Sequence 53, Application US/10654200
; Publication No. US20040170606A1
; GENERAL INFORMATION:
;  APPLICANT: Large Scale Biology Corporation
;  TITLE OF INVENTION: PRODUCTION OF PEPTIDES IN PLANTS AS VIRAL COAT PROTEIN FUSIONS
;  FILE REFERENCE: N9739
;  CURRENT APPLICATION NUMBER: US/10/654,200
;  CURRENT FILING DATE:  2003-09-03
;  PRIOR APPLICATION NUMBER: 60/407,795
;  PRIOR FILING DATE: 2002-09-03
;  PRIOR APPLICATION NUMBER: 60/386,921
;  PRIOR FILING DATE: 2002-06-07
;  PRIOR APPLICATION NUMBER: 10/457,082
;  PRIOR FILING DATE: 2003-06-06
;  NUMBER OF SEQ ID NOS: 106
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 53
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: Human Papilloma Virus
US-10-654-200-53

  Query Match            100.0%;  Score 49;  DB 4;  Length 14;
  Best Local Similarity  100.0%;  Pred. No. 0.016;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          4 RAHYNIVTF 12


RESULT 34
US-10-654-200-54
; Sequence 54, Application US/10654200
; Publication No. US20040170606A1
; GENERAL INFORMATION:
;  APPLICANT: Large Scale Biology Corporation
;  TITLE OF INVENTION: PRODUCTION OF PEPTIDES IN PLANTS AS VIRAL COAT PROTEIN FUSIONS
;  FILE REFERENCE: N9739
;  CURRENT APPLICATION NUMBER: US/10/654,200
;  CURRENT FILING DATE:  2003-09-03
;  PRIOR APPLICATION NUMBER: 60/407,795
;  PRIOR FILING DATE: 2002-09-03
;  PRIOR APPLICATION NUMBER: 60/386,921
;  PRIOR FILING DATE: 2002-06-07
;  PRIOR APPLICATION NUMBER: 10/457,082
;  PRIOR FILING DATE: 2003-06-06
;  NUMBER OF SEQ ID NOS: 106
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 54
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: Human Papilloma Virus
US-10-654-200-54

  Query Match            100.0%;  Score 49;  DB 4;  Length 14;
  Best Local Similarity  100.0%;  Pred. No. 0.016;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          6 RAHYNIVTF 14


RESULT 35
US-10-751-845-68
; Sequence 68, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
;  APPLICANT: Hedley, Mary Lynne
;  APPLICANT:  Urban, Robert G.
;  APPLICANT:  Chicz, Roman M.
;  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYEPITOPE POLYPEPTIDES
;  FILE REFERENCE: 08191-013001
;  CURRENT APPLICATION NUMBER: US/10/751,845
;  CURRENT FILING DATE:  2004-01-05
;  PRIOR APPLICATION NUMBER: US/09/664,225
;  PRIOR FILING DATE: 2000-08-18
;  PRIOR APPLICATION NUMBER: US 60/169,846
;  PRIOR FILING DATE: 1999-12-09
;  PRIOR APPLICATION NUMBER: US 60/154,665
;  PRIOR FILING DATE: 1999-09-16
;  NUMBER OF SEQ ID NOS: 163
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 68
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: Human Papilloma virus
US-10-751-845-68

  Query Match            100.0%;  Score 49;  DB 5;  Length 14;
  Best Local Similarity  100.0%;  Pred. No. 0.016;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          6 RAHYNIVTF 14


RESULT 36
US-10-648-547-61
; Sequence 61, Application US/10648547
```

; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 61
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-61

Query Match 100.0%; Score 49; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
||||||||| 
Db 1 RAHYNIVTF 9

RESULT 37
US-10-648-547-62
; Sequence 62, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 62
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-62

Query Match 100.0%; Score 49; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
||||||||| 
Db 2 RAHYNIVTF 10

RESULT 38
US-10-648-547-64
; Sequence 64, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 64
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-64

Query Match 100.0%; Score 49; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
||||||||| 
Db 4 RAHYNIVTF 12

RESULT 39
US-10-648-547-74
; Sequence 74, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 74
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-74

Query Match 100.0%; Score 49; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
||||||||| 
Db 5 RAHYNIVTF 13

RESULT 40
US-10-654-200-55
; Sequence 55, Application US/10654200
; Publication No. US20040170606A1
; GENERAL INFORMATION:
; APPLICANT: Large Scale Biology Corporation
; TITLE OF INVENTION: PRODUCTION OF PEPTIDES IN PLANTS AS VIRAL COAT PROTEIN FUSIONS
; FILE REFERENCE: N9739
; CURRENT APPLICATION NUMBER: US/10/654,200
; CURRENT FILING DATE: 2003-09-03
; PRIOR APPLICATION NUMBER: 60/407,795
; PRIOR FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: 60/386,921
; PRIOR FILING DATE: 2002-06-07
; PRIOR APPLICATION NUMBER: 10/457,082
; PRIOR FILING DATE: 2003-06-06
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 55
; LENGTH: 15
; TYPE: PRT

; ORGANISM: Human Papilloma Virus
US-10-654-200-55

Query Match 100.0%; Score 49; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
||||||||| 
Db 7 RAHYNIVTF 15

RESULT 41
US-10-476-570-63
; Sequence 63, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 63
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E7 43-57
US-10-476-570-63

Query Match 100.0%; Score 49; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
||||||||| 
Db 7 RAHYNIVTF 15

RESULT 42
US-10-306-541-61
; Sequence 61, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 61
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-61

Query Match 100.0%; Score 49; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
||||||||| 
Db 1 RAHYNIVTF 9

RESULT 43
US-10-306-541-62
; Sequence 62, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 62
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-62

Query Match 100.0%; Score 49; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
||||||||| 
Db 2 RAHYNIVTF 10

RESULT 44
US-10-306-541-64
; Sequence 64, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 64
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-64

Query Match 100.0%; Score 49; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
||||||||| 
Db 4 RAHYNIVTF 12

RESULT 45
US-10-306-541-74
; Sequence 74, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:

; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 74
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-74

Query Match 100.0%; Score 49; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
||||||||| 
Db 5 RAHYNIVTF 13

RESULT 46
US-10-858-384-16
; Sequence 16, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 16
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
; OTHER INFORMATION: for E7 of HPV
US-10-858-384-16

Query Match 100.0%; Score 49; DB 5; Length 17;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
||||||||| 
Db 6 RAHYNIVTF 14

RESULT 47
US-10-654-200-56
; Sequence 56, Application US/10654200
; Publication No. US20040170606A1
; GENERAL INFORMATION:
; APPLICANT: Large Scale Biology Corporation
; TITLE OF INVENTION: PRODUCTION OF PEPTIDES IN PLANTS AS VIRAL COAT PROTEIN FUSIONS
; FILE REFERENCE: N9739
; CURRENT APPLICATION NUMBER: US/10/654,200
; CURRENT FILING DATE: 2003-09-03
; PRIOR APPLICATION NUMBER: 60/407,795
; PRIOR FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: 60/386,921
; PRIOR FILING DATE: 2002-06-07
; PRIOR APPLICATION NUMBER: 10/457,082
; PRIOR FILING DATE: 2003-06-06
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 56
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Human Papilloma Virus
US-10-654-200-56

Query Match 100.0%; Score 49; DB 4; Length 19;
Best Local Similarity 100.0%; Pred. No. 0.022;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
||||||||| 
Db 6 RAHYNIVTF 14

RESULT 48
US-10-484-063-14
; Sequence 14, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-14

Query Match 100.0%; Score 49; DB 5; Length 19;
Best Local Similarity 100.0%; Pred. No. 0.022;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RAHYNIVTF 9
||||||||| 
Db 6 RAHYNIVTF 14

RESULT 49
US-10-432-465-48
; Sequence 48, Application US/10432465
; Publication No. US20040091479A1
; GENERAL INFORMATION:
; APPLICANT: Nieland, John
; APPLICANT: Kaufmann, Andreas
; APPLICANT: Kather, Angela
; APPLICANT: Schinz, Manuela
; TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1
; TITLE OF INVENTION: Protein and E7 Protein and Their Use in Diagnosis and
; TITLE OF INVENTION: Therapy
; FILE REFERENCE: 50125/077001
; CURRENT APPLICATION NUMBER: US/10/432,465
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: PCT/EP01/14037

```
;  PRIOR FILING DATE: 2001-11-30
;  PRIOR APPLICATION NUMBER: DE 10059631.2
;  PRIOR FILING DATE: 2000-12-01
;  NUMBER OF SEQ ID NOS: 116
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 48
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-10-432-465-48

  Query Match             100.0%;  Score 49;  DB 4;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.023;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          5 RAHYNIVTF 13


RESULT 50
US-10-654-200-57
; Sequence 57, Application US/10654200
; Publication No. US20040170606A1
; GENERAL INFORMATION:
;  APPLICANT: Large Scale Biology Corporation
;  TITLE OF INVENTION: PRODUCTION OF PEPTIDES IN PLANTS AS VIRAL COAT PROTEIN FUSIONS
;  FILE REFERENCE: N9739
;  CURRENT APPLICATION NUMBER: US/10/654,200
;  CURRENT FILING DATE:  2003-09-03
;  PRIOR APPLICATION NUMBER: 60/407,795
;  PRIOR FILING DATE: 2002-09-03
;  PRIOR APPLICATION NUMBER: 60/386,921
;  PRIOR FILING DATE: 2002-06-07
;  PRIOR APPLICATION NUMBER: 10/457,082
;  PRIOR FILING DATE: 2003-06-06
;  NUMBER OF SEQ ID NOS: 106
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 57
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Human Papilloma Virus
US-10-654-200-57

  Query Match             100.0%;  Score 49;  DB 4;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.023;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          7 RAHYNIVTF 15


Search completed: May  5, 2006, 08:17:25
Job time : 63.8 secs
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:08:06 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-74
Perfect score: 49
Sequence: 1 RAHYNIVTF 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_New:*
1: /SIDS5/ptodata/1/pubpaa/US08_NEW_PUB.pep1:*
2: /SIDS5/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
3: /SIDS5/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
4: /SIDS5/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
5: /SIDS5/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
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12: /SIDS5/ptodata/1/pubpaa/US60_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
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| 1 | 49 | 100.0 | 9 | 9 | US-10-530-253-41 | Sequence 41, Appl |
| 2 | 49 | 100.0 | 9 | 9 | US-10-962-951-9 | Sequence 9, Appli |
| 3 | 49 | 100.0 | 9 | 11 | US-11-041-893-100 | Sequence 100, App |
| 4 | 49 | 100.0 | 9 | 11 | US-11-121-840-5 | Sequence 5, Appli |
| 5 | 49 | 100.0 | 35 | 11 | US-11-041-893-101 | Sequence 101, App |
| 6 | 49 | 100.0 | 98 | 8 | US-10-511-814-8 | Sequence 8, Appli |
| 7 | 49 | 100.0 | 98 | 8 | US-10-511-814-11 | Sequence 11, Appl |
| 8 | 49 | 100.0 | 98 | 9 | US-10-530-253-14 | Sequence 14, Appl |
| 9 | 49 | 100.0 | 98 | 11 | US-11-179-478-4 | Sequence 4, Appli |
| 10 | 49 | 100.0 | 248 | 9 | US-10-530-253-1 | Sequence 1, Appli |
| 11 | 49 | 100.0 | 248 | 9 | US-10-530-253-3 | Sequence 3, Appli |
| 12 | 49 | 100.0 | 248 | 9 | US-10-530-253-5 | Sequence 5, Appli |
| 13 | 49 | 100.0 | 248 | 9 | US-10-530-253-7 | Sequence 7, Appli |
| 14 | 49 | 100.0 | 248 | 9 | US-10-530-253-9 | Sequence 9, Appli |
| 15 | 49 | 100.0 | 248 | 9 | US-10-530-253-11 | Sequence 11, Appl |
| 16 | 49 | 100.0 | 256 | 11 | US-11-192-923A-2 | Sequence 2, Appli |
| 17 | 37 | 75.5 | 612 | 9 | US-10-467-657-764 | Sequence 764, App |
| 18 | 34 | 69.4 | 43 | 9 | US-10-467-657-8128 | Sequence 8128, Ap |
| 19 | 34 | 69.4 | 98 | 9 | US-10-530-253-28 | Sequence 28, Appl |
| 20 | 33 | 67.3 | 36 | 7 | US-09-978-360A-549 | Sequence 549, App |
| 21 | 33 | 67.3 | 329 | 11 | US-11-188-298-4829 | Sequence 4829, Ap |
| 22 | 33 | 67.3 | 428 | 11 | US-11-098-686-10576 | Sequence 10576, A |
| 23 | 33 | 67.3 | 433 | 9 | US-10-506-454-1525 | Sequence 1525, Ap |
| 24 | 33 | 67.3 | 434 | 9 | US-10-506-454-259 | Sequence 259, App |
| 25 | 32 | 65.3 | 248 | 11 | US-11-054-515-835 | Sequence 835, App |
| 26 | 32 | 65.3 | 248 | 11 | US-11-054-515-914 | Sequence 914, App |
| 27 | 32 | 65.3 | 248 | 11 | US-11-054-515-916 | Sequence 916, App |
| 28 | 32 | 65.3 | 248 | 11 | US-11-054-515-920 | Sequence 920, App |
| 29 | 32 | 65.3 | 248 | 11 | US-11-054-515-1323 | Sequence 1323, Ap |
| 30 | 32 | 65.3 | 248 | 11 | US-11-266-444-835 | Sequence 835, App |
| 31 | 32 | 65.3 | 248 | 11 | US-11-266-444-914 | Sequence 914, App |
| 32 | 32 | 65.3 | 248 | 11 | US-11-266-444-916 | Sequence 916, App |
| 33 | 32 | 65.3 | 248 | 11 | US-11-266-444-920 | Sequence 920, App |
| 34 | 32 | 65.3 | 248 | 11 | US-11-266-444-1323 | Sequence 1323, Ap |
| 35 | 32 | 65.3 | 249 | 11 | US-11-054-515-912 | Sequence 912, App |
| 36 | 32 | 65.3 | 249 | 11 | US-11-054-515-941 | Sequence 941, App |
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| 38 | 32 | 65.3 | 249 | 11 | US-11-266-444-941 | Sequence 941, App |
| 39 | 32 | 65.3 | 251 | 11 | US-11-054-515-955 | Sequence 955, App |
| 40 | 32 | 65.3 | 251 | 11 | US-11-054-515-1114 | Sequence 1114, Ap |
| 41 | 32 | 65.3 | 251 | 11 | US-11-054-515-1309 | Sequence 1309, Ap |
| 42 | 32 | 65.3 | 251 | 11 | US-11-054-515-1317 | Sequence 1317, Ap |
| 43 | 32 | 65.3 | 251 | 11 | US-11-054-515-1332 | Sequence 1332, Ap |
| 44 | 32 | 65.3 | 251 | 11 | US-11-266-444-955 | Sequence 955, App |
| 45 | 32 | 65.3 | 251 | 11 | US-11-266-444-1114 | Sequence 1114, Ap |
| 46 | 32 | 65.3 | 251 | 11 | US-11-266-444-1309 | Sequence 1309, Ap |
| 47 | 32 | 65.3 | 251 | 11 | US-11-266-444-1317 | Sequence 1317, Ap |
| 48 | 32 | 65.3 | 251 | 11 | US-11-266-444-1332 | Sequence 1332, Ap |
| 49 | 32 | 65.3 | 252 | 11 | US-11-054-515-988 | Sequence 988, App |
| 50 | 32 | 65.3 | 252 | 11 | US-11-266-444-988 | Sequence 988, App |
| 51 | 32 | 65.3 | 299 | 9 | US-10-467-657-4424 | Sequence 4424, Ap |
| 52 | 32 | 65.3 | 392 | 11 | US-11-188-298-11945 | Sequence 11945, A |
| 53 | 32 | 65.3 | 393 | 9 | US-10-979-821-10 | Sequence 10, Appl |
| 54 | 32 | 65.3 | 393 | 11 | US-11-114-922-10 | Sequence 10, Appl |
| 55 | 31 | 63.3 | 20 | 11 | US-11-054-515-2875 | Sequence 2875, Ap |
| 56 | 31 | 63.3 | 20 | 11 | US-11-054-515-3061 | Sequence 3061, Ap |
| 57 | 31 | 63.3 | 20 | 11 | US-11-266-444-2875 | Sequence 2875, Ap |
| 58 | 31 | 63.3 | 20 | 11 | US-11-266-444-3061 | Sequence 3061, Ap |
| 59 | 31 | 63.3 | 81 | 9 | US-10-467-657-2194 | Sequence 2194, Ap |
| 60 | 31 | 63.3 | 128 | 9 | US-10-793-626-1620 | Sequence 1620, Ap |
| 61 | 31 | 63.3 | 207 | 11 | US-11-087-099-4220 | Sequence 4220, Ap |
| 62 | 31 | 63.3 | 250 | 11 | US-11-054-515-1548 | Sequence 1548, Ap |
| 63 | 31 | 63.3 | 250 | 11 | US-11-266-444-1548 | Sequence 1548, Ap |
| 64 | 31 | 63.3 | 251 | 11 | US-11-054-515-1555 | Sequence 1555, Ap |
| 65 | 31 | 63.3 | 251 | 11 | US-11-266-444-1555 | Sequence 1555, Ap |
| 66 | 31 | 63.3 | 252 | 11 | US-11-054-515-1362 | Sequence 1362, Ap |
| 67 | 31 | 63.3 | 252 | 11 | US-11-266-444-1362 | Sequence 1362, Ap |
| 68 | 31 | 63.3 | 253 | 11 | US-11-054-515-994 | Sequence 994, App |
| 69 | 31 | 63.3 | 253 | 11 | US-11-266-444-994 | Sequence 994, App |
| 70 | 31 | 63.3 | 255 | 11 | US-11-054-515-1819 | Sequence 1819, Ap |
| 71 | 31 | 63.3 | 255 | 11 | US-11-266-444-1819 | Sequence 1819, Ap |
| 72 | 31 | 63.3 | 257 | 11 | US-11-054-515-958 | Sequence 958, App |
| 73 | 31 | 63.3 | 257 | 11 | US-11-266-444-958 | Sequence 958, App |
| 74 | 31 | 63.3 | 279 | 9 | US-10-506-454-1425 | Sequence 1425, Ap |
| 75 | 31 | 63.3 | 446 | 11 | US-11-112-882-25 | Sequence 25, Appl |
| 76 | 31 | 63.3 | 446 | 11 | US-11-146-428-52 | Sequence 52, Appl |
| 77 | 31 | 63.3 | 477 | 11 | US-11-188-298-14300 | Sequence 14300, A |
| 78 | 31 | 63.3 | 877 | 11 | US-11-087-099-7068 | Sequence 7068, Ap |
| 79 | 31 | 63.3 | 941 | 11 | US-11-079-463-6927 | Sequence 6927, Ap |
| 80 | 30 | 61.2 | 19 | 11 | US-11-054-515-2885 | Sequence 2885, Ap |
| 81 | 30 | 61.2 | 19 | 11 | US-11-266-444-2885 | Sequence 2885, Ap |
| 82 | 30 | 61.2 | 20 | 11 | US-11-054-515-2747 | Sequence 2747, Ap |
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| 84 | 30 | 61.2 | 248 | 11 | US-11-054-515-1178 | Sequence 1178, Ap |
| 85 | 30 | 61.2 | 248 | 11 | US-11-054-515-1331 | Sequence 1331, Ap |
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| 87 | 30 | 61.2 | 248 | 11 | US-11-266-444-1331 | Sequence 1331, Ap |
| 88 | 30 | 61.2 | 253 | 11 | US-11-054-515-1449 | Sequence 1449, Ap |
| 89 | 30 | 61.2 | 253 | 11 | US-11-266-444-1449 | Sequence 1449, Ap |
| 90 | 30 | 61.2 | 258 | 11 | US-11-054-515-1453 | Sequence 1453, Ap |
| 91 | 30 | 61.2 | 258 | 11 | US-11-054-515-1799 | Sequence 1799, Ap |
| 92 | 30 | 61.2 | 258 | 11 | US-11-054-515-3246 | Sequence 3246, Ap |
| 93 | 30 | 61.2 | 258 | 11 | US-11-266-444-1453 | Sequence 1453, Ap |
| 94 | 30 | 61.2 | 258 | 11 | US-11-266-444-1799 | Sequence 1799, Ap |

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| 95 | 30 | 61.2 | 297 | 9 | US-10-793-626-2634 | Sequence 2634, Ap |
| 96 | 30 | 61.2 | 347 | 11 | US-11-188-298-21532 | Sequence 21532, A |
| 97 | 30 | 61.2 | 406 | 11 | US-11-188-298-10649 | Sequence 10649, A |
| 98 | 30 | 61.2 | 439 | 11 | US-11-096-568A-4728 | Sequence 4728, Ap |
| 99 | 30 | 61.2 | 461 | 11 | US-11-264-096-1565 | Sequence 1565, Ap |
| 100 | 30 | 61.2 | 615 | 11 | US-11-087-099-1607 | Sequence 1607, Ap |
| 101 | 30 | 61.2 | 651 | 9 | US-10-770-726-67 | Sequence 67, Appl |
| 102 | 30 | 61.2 | 651 | 11 | US-11-177-138-10 | Sequence 10, Appl |
| 103 | 30 | 61.2 | 694 | 11 | US-11-087-099-566 | Sequence 566, App |
| 104 | 30 | 61.2 | 853 | 7 | US-09-720-086-8 | Sequence 8, Appli |
| 105 | 30 | 61.2 | 859 | 7 | US-09-720-086-6 | Sequence 6, Appli |
| 106 | 30 | 61.2 | 862 | 11 | US-11-188-298-7416 | Sequence 7416, Ap |
| 107 | 30 | 61.2 | 863 | 9 | US-10-793-626-2010 | Sequence 2010, Ap |
| 108 | 30 | 61.2 | 1341 | 11 | US-11-096-568A-32147 | Sequence 32147, A |
| 109 | 30 | 61.2 | 1372 | 11 | US-11-096-568A-32146 | Sequence 32146, A |
| 110 | 30 | 61.2 | 1393 | 11 | US-11-096-568A-32145 | Sequence 32145, A |
| 111 | 29 | 59.2 | 137 | 11 | US-11-264-096-755 | Sequence 755, App |
| 112 | 29 | 59.2 | 180 | 9 | US-10-467-657-2 | Sequence 2, Appli |
| 113 | 29 | 59.2 | 180 | 9 | US-10-467-657-3732 | Sequence 3732, Ap |
| 114 | 29 | 59.2 | 181 | 9 | US-10-467-657-8206 | Sequence 8206, Ap |
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| 116 | 29 | 59.2 | 209 | 11 | US-11-045-004-1810 | Sequence 1810, Ap |
| 117 | 29 | 59.2 | 227 | 11 | US-11-096-568A-23872 | Sequence 23872, A |
| 118 | 29 | 59.2 | 248 | 11 | US-11-054-515-967 | Sequence 967, App |
| 119 | 29 | 59.2 | 248 | 11 | US-11-054-515-1387 | Sequence 1387, Ap |
| 120 | 29 | 59.2 | 248 | 11 | US-11-266-444-967 | Sequence 967, App |
| 121 | 29 | 59.2 | 248 | 11 | US-11-266-444-1387 | Sequence 1387, Ap |
| 122 | 29 | 59.2 | 266 | 11 | US-11-188-298-14706 | Sequence 14706, A |
| 123 | 29 | 59.2 | 268 | 11 | US-11-096-568A-7693 | Sequence 7693, Ap |
| 124 | 29 | 59.2 | 274 | 11 | US-11-096-568A-7451 | Sequence 7451, Ap |
| 125 | 29 | 59.2 | 299 | 11 | US-11-079-463-9970 | Sequence 9970, Ap |
| 126 | 29 | 59.2 | 312 | 11 | US-11-096-568A-7692 | Sequence 7692, Ap |
| 127 | 29 | 59.2 | 319 | 11 | US-11-087-099-880 | Sequence 880, App |
| 128 | 29 | 59.2 | 319 | 11 | US-11-087-099-7006 | Sequence 7006, Ap |
| 129 | 29 | 59.2 | 319 | 11 | US-11-188-298-6401 | Sequence 6401, Ap |
| 130 | 29 | 59.2 | 319 | 11 | US-11-188-298-11853 | Sequence 11853, A |
| 131 | 29 | 59.2 | 319 | 11 | US-11-188-298-19264 | Sequence 19264, A |
| 132 | 29 | 59.2 | 334 | 11 | US-11-188-298-17193 | Sequence 17193, A |
| 133 | 29 | 59.2 | 336 | 9 | US-10-517-939-94 | Sequence 94, Appl |
| 134 | 29 | 59.2 | 341 | 11 | US-11-079-463-5345 | Sequence 5345, Ap |
| 135 | 29 | 59.2 | 345 | 9 | US-10-131-826A-286 | Sequence 286, App |
| 136 | 29 | 59.2 | 345 | 9 | US-10-921-793-72 | Sequence 72, Appl |
| 137 | 29 | 59.2 | 345 | 9 | US-10-973-115B-286 | Sequence 286, App |
| 138 | 29 | 59.2 | 345 | 9 | US-10-931-198-72 | Sequence 72, Appl |
| 139 | 29 | 59.2 | 345 | 9 | US-10-942-042-72 | Sequence 72, Appl |
| 140 | 29 | 59.2 | 345 | 9 | US-10-216-161A-488 | Sequence 488, App |
| 141 | 29 | 59.2 | 345 | 9 | US-10-137-873A-286 | Sequence 286, App |
| 142 | 29 | 59.2 | 345 | 9 | US-10-152-370-286 | Sequence 286, App |
| 143 | 29 | 59.2 | 345 | 11 | US-11-073-605-6 | Sequence 6, Appli |
| 144 | 29 | 59.2 | 345 | 11 | US-11-064-774A-149 | Sequence 149, App |
| 145 | 29 | 59.2 | 345 | 11 | US-11-075-400-12 | Sequence 12, Appl |
| 146 | 29 | 59.2 | 345 | 11 | US-11-076-427A-22 | Sequence 22, Appl |
| 147 | 29 | 59.2 | 345 | 11 | US-11-072-175-191 | Sequence 191, App |
| 148 | 29 | 59.2 | 345 | 11 | US-11-075-047A-103 | Sequence 103, App |
| 149 | 29 | 59.2 | 345 | 11 | US-11-140-284-32 | Sequence 32, Appl |
| 150 | 29 | 59.2 | 345 | 11 | US-11-290-153-286 | Sequence 286, App |
| 151 | 29 | 59.2 | 350 | 9 | US-10-517-939-14 | Sequence 14, Appl |
| 152 | 29 | 59.2 | 352 | 11 | US-11-096-568A-7450 | Sequence 7450, Ap |
| 153 | 29 | 59.2 | 353 | 9 | US-10-793-626-634 | Sequence 634, App |
| 154 | 29 | 59.2 | 367 | 11 | US-11-096-568A-13389 | Sequence 13389, A |
| 155 | 29 | 59.2 | 369 | 11 | US-11-096-568A-7691 | Sequence 7691, Ap |
| 156 | 29 | 59.2 | 371 | 9 | US-10-467-657-1166 | Sequence 1166, Ap |
| 157 | 29 | 59.2 | 375 | 9 | US-10-517-939-278 | Sequence 278, App |
| 158 | 29 | 59.2 | 382 | 11 | US-11-096-568A-12912 | Sequence 12912, A |
| 159 | 29 | 59.2 | 388 | 11 | US-11-096-568A-13388 | Sequence 13388, A |
| 160 | 29 | 59.2 | 397 | 11 | US-11-096-568A-13387 | Sequence 13387, A |
| 161 | 29 | 59.2 | 423 | 11 | US-11-087-099-9284 | Sequence 9284, Ap |
| 162 | 29 | 59.2 | 425 | 8 | US-10-370-959-8 | Sequence 8, Appli |
| 163 | 29 | 59.2 | 429 | 9 | US-10-878-556A-17 | Sequence 17, Appl |
| 164 | 29 | 59.2 | 453 | 11 | US-11-264-096-759 | Sequence 759, App |
| 165 | 29 | 59.2 | 453 | 11 | US-11-264-096-2170 | Sequence 2170, Ap |
| 166 | 29 | 59.2 | 476 | 11 | US-11-096-568A-13491 | Sequence 13491, A |
| 167 | 29 | 59.2 | 484 | 11 | US-11-146-428-108 | Sequence 108, App |
| 168 | 29 | 59.2 | 491 | 11 | US-11-096-568A-13490 | Sequence 13490, A |
| 169 | 29 | 59.2 | 608 | 11 | US-11-079-463-7066 | Sequence 7066, Ap |
| 170 | 29 | 59.2 | 680 | 11 | US-11-188-298-720 | Sequence 720, App |
| 171 | 29 | 59.2 | 680 | 11 | US-11-188-298-7263 | Sequence 7263, Ap |
| 172 | 29 | 59.2 | 694 | 11 | US-11-087-099-4457 | Sequence 4457, Ap |
| 173 | 29 | 59.2 | 694 | 11 | US-11-087-099-7074 | Sequence 7074, Ap |
| 174 | 29 | 59.2 | 734 | 9 | US-10-995-561-770 | Sequence 770, App |
| 175 | 29 | 59.2 | 737 | 11 | US-11-128-420-9 | Sequence 9, Appli |
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| 177 | 29 | 59.2 | 1167 | 11 | US-11-096-568A-28971 | Sequence 28971, A |
| 178 | 29 | 59.2 | 1169 | 11 | US-11-096-568A-31176 | Sequence 31176, A |
| 179 | 29 | 59.2 | 1190 | 11 | US-11-043-889-20 | Sequence 20, Appl |
| 180 | 29 | 59.2 | 1216 | 11 | US-11-096-568A-28970 | Sequence 28970, A |
| 181 | 29 | 59.2 | 1218 | 11 | US-11-096-568A-31175 | Sequence 31175, A |
| 182 | 29 | 59.2 | 2504 | 9 | US-10-647-956A-8 | Sequence 8, Appli |
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| 184 | 28.5 | 58.2 | 756 | 9 | US-10-330-773-731 | Sequence 731, App |
| 185 | 28 | 57.1 | 9 | 9 | US-10-859-643-391 | Sequence 391, App |
| 186 | 28 | 57.1 | 9 | 11 | US-11-097-864-391 | Sequence 391, App |
| 187 | 28 | 57.1 | 9 | 11 | US-11-097-912-391 | Sequence 391, App |
| 188 | 28 | 57.1 | 53 | 9 | US-10-895-064-2857 | Sequence 2857, Ap |
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| 191 | 28 | 57.1 | 99 | 9 | US-10-530-253-30 | Sequence 30, Appl |
| 192 | 28 | 57.1 | 118 | 11 | US-11-188-298-12606 | Sequence 12606, A |
| 193 | 28 | 57.1 | 144 | 11 | US-11-203-526-36 | Sequence 36, Appl |
| 194 | 28 | 57.1 | 167 | 11 | US-11-079-463-8149 | Sequence 8149, Ap |
| 195 | 28 | 57.1 | 204 | 11 | US-11-096-568A-3940 | Sequence 3940, Ap |
| 196 | 28 | 57.1 | 206 | 9 | US-10-718-264-14 | Sequence 14, Appl |
| 197 | 28 | 57.1 | 206 | 9 | US-10-718-264-169 | Sequence 169, App |
| 198 | 28 | 57.1 | 206 | 9 | US-10-718-264-170 | Sequence 170, App |
| 199 | 28 | 57.1 | 206 | 9 | US-10-718-264-14 | Sequence 14, Appl |
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| 201 | 28 | 57.1 | 206 | 9 | US-10-718-264-170 | Sequence 170, App |
| 202 | 28 | 57.1 | 206 | 11 | US-11-217-562-10 | Sequence 10, Appl |
| 203 | 28 | 57.1 | 206 | 11 | US-11-107-219-10 | Sequence 10, Appl |
| 204 | 28 | 57.1 | 206 | 11 | US-11-176-667-14 | Sequence 14, Appl |
| 205 | 28 | 57.1 | 206 | 11 | US-11-176-667-169 | Sequence 169, App |
| 206 | 28 | 57.1 | 206 | 11 | US-11-176-667-170 | Sequence 170, App |
| 207 | 28 | 57.1 | 226 | 9 | US-10-793-626-1932 | Sequence 1932, Ap |
| 208 | 28 | 57.1 | 240 | 11 | US-11-079-463-6433 | Sequence 6433, Ap |
| 209 | 28 | 57.1 | 248 | 11 | US-11-054-515-1360 | Sequence 1360, Ap |
| 210 | 28 | 57.1 | 248 | 11 | US-11-266-444-1360 | Sequence 1360, Ap |
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| 212 | 28 | 57.1 | 287 | 11 | US-11-087-099-10597 | Sequence 10597, A |
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| 214 | 28 | 57.1 | 294 | 11 | US-11-087-099-788 | Sequence 788, App |
| 215 | 28 | 57.1 | 294 | 11 | US-11-087-099-5652 | Sequence 5652, Ap |
| 216 | 28 | 57.1 | 297 | 11 | US-11-045-004-583 | Sequence 583, App |
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| 235 | 28 | 57.1 | 443 | 11 | US-11-188-298-3701 | Sequence 3701, Ap |
| 236 | 28 | 57.1 | 447 | 11 | US-11-188-298-16273 | Sequence 16273, A |
| 237 | 28 | 57.1 | 501 | 11 | US-11-188-298-14289 | Sequence 14289, A |
| 238 | 28 | 57.1 | 512 | 9 | US-10-517-939-374 | Sequence 374, App |
| 239 | 28 | 57.1 | 512 | 11 | US-11-079-463-6040 | Sequence 6040, Ap |
| 240 | 28 | 57.1 | 547 | 11 | US-11-079-463-9820 | Sequence 9820, Ap |

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| 241 | 28 | 57.1 | 550 | 11 | US-11-188-298-591 | Sequence 591, App |
| 242 | 28 | 57.1 | 651 | 11 | US-11-087-099-2611 | Sequence 2611, Ap |
| 243 | 28 | 57.1 | 694 | 11 | US-11-079-463-5292 | Sequence 5292, Ap |
| 244 | 28 | 57.1 | 701 | 11 | US-11-188-298-20373 | Sequence 20373, A |
| 245 | 28 | 57.1 | 717 | 11 | US-11-188-298-16498 | Sequence 16498, A |
| 246 | 28 | 57.1 | 725 | 11 | US-11-045-004-214 | Sequence 214, App |
| 247 | 28 | 57.1 | 738 | 11 | US-11-188-298-1583 | Sequence 1583, Ap |
| 248 | 28 | 57.1 | 802 | 11 | US-11-188-298-5674 | Sequence 5674, Ap |
| 249 | 28 | 57.1 | 802 | 11 | US-11-188-298-20820 | Sequence 20820, A |
| 250 | 28 | 57.1 | 835 | 11 | US-11-186-283-8 | Sequence 8, Appli |
| 251 | 28 | 57.1 | 837 | 9 | US-10-995-561-698 | Sequence 698, App |
| 252 | 28 | 57.1 | 871 | 9 | US-10-859-643-765 | Sequence 765, App |
| 253 | 28 | 57.1 | 871 | 11 | US-11-097-864-765 | Sequence 765, App |
| 254 | 28 | 57.1 | 871 | 11 | US-11-097-912-765 | Sequence 765, App |
| 255 | 28 | 57.1 | 875 | 9 | US-10-859-643-743 | Sequence 743, App |
| 256 | 28 | 57.1 | 875 | 9 | US-10-859-643-745 | Sequence 745, App |
| 257 | 28 | 57.1 | 875 | 9 | US-10-859-643-747 | Sequence 747, App |
| 258 | 28 | 57.1 | 875 | 9 | US-10-859-643-748 | Sequence 748, App |
| 259 | 28 | 57.1 | 875 | 9 | US-10-859-643-751 | Sequence 751, App |
| 260 | 28 | 57.1 | 875 | 11 | US-11-097-864-743 | Sequence 743, App |
| 261 | 28 | 57.1 | 875 | 11 | US-11-097-864-745 | Sequence 745, App |
| 262 | 28 | 57.1 | 875 | 11 | US-11-097-864-747 | Sequence 747, App |
| 263 | 28 | 57.1 | 875 | 11 | US-11-097-864-748 | Sequence 748, App |
| 264 | 28 | 57.1 | 875 | 11 | US-11-097-864-751 | Sequence 751, App |
| 265 | 28 | 57.1 | 875 | 11 | US-11-097-912-743 | Sequence 743, App |
| 266 | 28 | 57.1 | 875 | 11 | US-11-097-912-745 | Sequence 745, App |
| 267 | 28 | 57.1 | 875 | 11 | US-11-097-912-747 | Sequence 747, App |
| 268 | 28 | 57.1 | 875 | 11 | US-11-097-912-748 | Sequence 748, App |
| 269 | 28 | 57.1 | 875 | 11 | US-11-097-912-751 | Sequence 751, App |
| 270 | 28 | 57.1 | 921 | 9 | US-10-455-772-856 | Sequence 856, App |
| 271 | 28 | 57.1 | 921 | 9 | US-10-455-772-868 | Sequence 868, App |
| 272 | 28 | 57.1 | 925 | 9 | US-10-455-772-858 | Sequence 858, App |
| 273 | 28 | 57.1 | 926 | 9 | US-10-455-772-860 | Sequence 860, App |
| 274 | 28 | 57.1 | 928 | 9 | US-10-455-772-864 | Sequence 864, App |
| 275 | 28 | 57.1 | 928 | 9 | US-10-455-772-870 | Sequence 870, App |
| 276 | 28 | 57.1 | 1174 | 9 | US-10-995-561-697 | Sequence 697, App |
| 277 | 28 | 57.1 | 1386 | 9 | US-10-517-939-284 | Sequence 284, App |
| 278 | 28 | 57.1 | 1484 | 9 | US-10-517-939-74 | Sequence 74, Appl |
| 279 | 28 | 57.1 | 1680 | 9 | US-10-517-939-362 | Sequence 362, App |
| 280 | 28 | 57.1 | 1924 | 8 | US-10-512-386-56 | Sequence 56, Appl |
| 281 | 28 | 57.1 | 2209 | 10 | US-11-301-554-1903 | Sequence 1903, Ap |
| 282 | 27 | 55.1 | 16 | 11 | US-11-054-515-2166 | Sequence 2166, Ap |
| 283 | 27 | 55.1 | 16 | 11 | US-11-054-515-2746 | Sequence 2746, Ap |
| 284 | 27 | 55.1 | 16 | 11 | US-11-054-515-2950 | Sequence 2950, Ap |
| 285 | 27 | 55.1 | 16 | 11 | US-11-266-444-2166 | Sequence 2166, Ap |
| 286 | 27 | 55.1 | 16 | 11 | US-11-266-444-2746 | Sequence 2746, Ap |
| 287 | 27 | 55.1 | 16 | 11 | US-11-266-444-2950 | Sequence 2950, Ap |
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| 289 | 27 | 55.1 | 18 | 11 | US-11-266-444-2994 | Sequence 2994, Ap |
| 290 | 27 | 55.1 | 43 | 11 | US-11-096-568A-9436 | Sequence 9436, Ap |
| 291 | 27 | 55.1 | 71 | 11 | US-11-096-568A-2664 | Sequence 2664, Ap |
| 292 | 27 | 55.1 | 77 | 11 | US-11-096-568A-2663 | Sequence 2663, Ap |
| 293 | 27 | 55.1 | 87 | 11 | US-11-096-568A-9434 | Sequence 9434, Ap |
| 294 | 27 | 55.1 | 117 | 11 | US-11-045-004-2053 | Sequence 2053, Ap |
| 295 | 27 | 55.1 | 122 | 11 | US-11-096-568A-8597 | Sequence 8597, Ap |
| 296 | 27 | 55.1 | 127 | 11 | US-11-072-512-2129 | Sequence 2129, Ap |
| 297 | 27 | 55.1 | 129 | 11 | US-11-096-568A-24157 | Sequence 24157, A |
| 298 | 27 | 55.1 | 136 | 11 | US-11-096-568A-8596 | Sequence 8596, Ap |
| 299 | 27 | 55.1 | 137 | 11 | US-11-072-512-2583 | Sequence 2583, Ap |
| 300 | 27 | 55.1 | 139 | 11 | US-11-079-463-8838 | Sequence 8838, Ap |
| 301 | 27 | 55.1 | 155 | 11 | US-11-240-769-152 | Sequence 152, App |
| 302 | 27 | 55.1 | 156 | 11 | US-11-096-568A-8595 | Sequence 8595, Ap |
| 303 | 27 | 55.1 | 168 | 11 | US-11-188-298-9457 | Sequence 9457, Ap |
| 304 | 27 | 55.1 | 168 | 11 | US-11-188-298-21934 | Sequence 21934, A |
| 305 | 27 | 55.1 | 174 | 11 | US-11-072-512-2183 | Sequence 2183, Ap |
| 306 | 27 | 55.1 | 180 | 11 | US-11-045-004-1042 | Sequence 1042, Ap |
| 307 | 27 | 55.1 | 187 | 9 | US-10-194-487-426 | Sequence 426, App |
| 308 | 27 | 55.1 | 187 | 9 | US-10-195-883-426 | Sequence 426, App |
| 309 | 27 | 55.1 | 187 | 9 | US-10-195-888-426 | Sequence 426, App |
| 310 | 27 | 55.1 | 187 | 9 | US-10-195-889-426 | Sequence 426, App |
| 311 | 27 | 55.1 | 187 | 11 | US-11-264-096-2067 | Sequence 2067, Ap |
| 312 | 27 | 55.1 | 205 | 9 | US-10-506-454-1029 | Sequence 1029, Ap |
| 313 | 27 | 55.1 | 214 | 11 | US-11-079-463-8641 | Sequence 8641, Ap |
| 314 | 27 | 55.1 | 225 | 11 | US-11-087-099-6616 | Sequence 6616, Ap |
| 315 | 27 | 55.1 | 238 | 11 | US-11-115-086-2 | Sequence 2, Appli |
| 316 | 27 | 55.1 | 244 | 9 | US-10-467-657-3330 | Sequence 3330, Ap |
| 317 | 27 | 55.1 | 253 | 11 | US-11-054-515-1880 | Sequence 1880, Ap |
| 318 | 27 | 55.1 | 253 | 11 | US-11-266-444-1880 | Sequence 1880, Ap |
| 319 | 27 | 55.1 | 261 | 11 | US-11-188-298-4179 | Sequence 4179, Ap |
| 320 | 27 | 55.1 | 265 | 11 | US-11-096-568A-4388 | Sequence 4388, Ap |
| 321 | 27 | 55.1 | 270 | 9 | US-10-986-405-197 | Sequence 197, App |
| 322 | 27 | 55.1 | 276 | 11 | US-11-098-686-10102 | Sequence 10102, A |
| 323 | 27 | 55.1 | 277 | 9 | US-10-467-657-7808 | Sequence 7808, Ap |
| 324 | 27 | 55.1 | 282 | 9 | US-10-793-626-364 | Sequence 364, App |
| 325 | 27 | 55.1 | 286 | 11 | US-11-087-099-7739 | Sequence 7739, Ap |
| 326 | 27 | 55.1 | 298 | 11 | US-11-079-463-6851 | Sequence 6851, Ap |
| 327 | 27 | 55.1 | 309 | 11 | US-11-045-004-526 | Sequence 526, App |
| 328 | 27 | 55.1 | 312 | 11 | US-11-123-241-20 | Sequence 20, Appl |
| 329 | 27 | 55.1 | 318 | 11 | US-11-096-568A-4387 | Sequence 4387, Ap |
| 330 | 27 | 55.1 | 322 | 11 | US-11-087-099-9399 | Sequence 9399, Ap |
| 331 | 27 | 55.1 | 325 | 9 | US-10-506-454-925 | Sequence 925, App |
| 332 | 27 | 55.1 | 328 | 11 | US-11-155-595-2 | Sequence 2, Appli |
| 333 | 27 | 55.1 | 328 | 11 | US-11-188-298-8460 | Sequence 8460, Ap |
| 334 | 27 | 55.1 | 329 | 11 | US-11-079-463-8032 | Sequence 8032, Ap |
| 335 | 27 | 55.1 | 331 | 9 | US-10-063-703-36 | Sequence 36, Appl |
| 336 | 27 | 55.1 | 331 | 9 | US-10-194-487-162 | Sequence 162, App |
| 337 | 27 | 55.1 | 331 | 9 | US-10-195-883-162 | Sequence 162, App |
| 338 | 27 | 55.1 | 331 | 9 | US-10-195-888-162 | Sequence 162, App |
| 339 | 27 | 55.1 | 331 | 9 | US-10-195-889-162 | Sequence 162, App |
| 340 | 27 | 55.1 | 331 | 11 | US-11-102-240-36 | Sequence 36, Appl |
| 341 | 27 | 55.1 | 331 | 11 | US-11-103-195-36 | Sequence 36, Appl |
| 342 | 27 | 55.1 | 336 | 9 | US-10-517-939-44 | Sequence 44, Appl |
| 343 | 27 | 55.1 | 341 | 11 | US-11-188-298-6303 | Sequence 6303, Ap |
| 344 | 27 | 55.1 | 343 | 11 | US-11-087-099-7432 | Sequence 7432, Ap |
| 345 | 27 | 55.1 | 345 | 11 | US-11-016-564-19 | Sequence 19, Appl |
| 346 | 27 | 55.1 | 350 | 11 | US-11-016-564-10 | Sequence 10, Appl |
| 347 | 27 | 55.1 | 356 | 9 | US-10-980-388-70 | Sequence 70, Appl |
| 348 | 27 | 55.1 | 356 | 11 | US-11-087-099-1695 | Sequence 1695, Ap |
| 349 | 27 | 55.1 | 357 | 11 | US-11-072-512-3150 | Sequence 3150, Ap |
| 350 | 27 | 55.1 | 358 | 11 | US-11-129-143-109 | Sequence 109, App |
| 351 | 27 | 55.1 | 359 | 9 | US-10-888-962-5 | Sequence 5, Appli |
| 352 | 27 | 55.1 | 359 | 11 | US-11-264-096-1251 | Sequence 1251, Ap |
| 353 | 27 | 55.1 | 360 | 11 | US-11-096-568A-7552 | Sequence 7552, Ap |
| 354 | 27 | 55.1 | 360 | 11 | US-11-264-096-1807 | Sequence 1807, Ap |
| 355 | 27 | 55.1 | 362 | 11 | US-11-188-298-4464 | Sequence 4464, Ap |
| 356 | 27 | 55.1 | 363 | 11 | US-11-087-099-7789 | Sequence 7789, Ap |
| 357 | 27 | 55.1 | 363 | 11 | US-11-188-298-7183 | Sequence 7183, Ap |
| 358 | 27 | 55.1 | 364 | 11 | US-11-067-884-2 | Sequence 2, Appli |
| 359 | 27 | 55.1 | 364 | 11 | US-11-072-175-166 | Sequence 166, App |
| 360 | 27 | 55.1 | 364 | 11 | US-11-087-099-5056 | Sequence 5056, Ap |
| 361 | 27 | 55.1 | 364 | 11 | US-11-188-298-15670 | Sequence 15670, A |
| 362 | 27 | 55.1 | 365 | 11 | US-11-087-099-1967 | Sequence 1967, Ap |
| 363 | 27 | 55.1 | 365 | 11 | US-11-188-298-12919 | Sequence 12919, A |
| 364 | 27 | 55.1 | 366 | 11 | US-11-188-298-1324 | Sequence 1324, Ap |
| 365 | 27 | 55.1 | 367 | 9 | US-10-888-962-6 | Sequence 6, Appli |
| 366 | 27 | 55.1 | 370 | 11 | US-11-127-817-22 | Sequence 22, Appl |
| 367 | 27 | 55.1 | 388 | 11 | US-11-087-099-3592 | Sequence 3592, Ap |
| 368 | 27 | 55.1 | 399 | 11 | US-11-147-047-35 | Sequence 35, Appl |
| 369 | 27 | 55.1 | 420 | 9 | US-10-793-626-3318 | Sequence 3318, Ap |
| 370 | 27 | 55.1 | 424 | 11 | US-11-087-099-999 | Sequence 999, App |
| 371 | 27 | 55.1 | 439 | 11 | US-11-087-099-1909 | Sequence 1909, Ap |
| 372 | 27 | 55.1 | 443 | 11 | US-11-272-833-4 | Sequence 4, Appli |
| 373 | 27 | 55.1 | 445 | 11 | US-11-188-298-7283 | Sequence 7283, Ap |
| 374 | 27 | 55.1 | 445 | 11 | US-11-188-298-11300 | Sequence 11300, A |
| 375 | 27 | 55.1 | 450 | 11 | US-11-096-568A-31401 | Sequence 31401, A |
| 376 | 27 | 55.1 | 458 | 11 | US-11-096-568A-6564 | Sequence 6564, Ap |
| 377 | 27 | 55.1 | 463 | 9 | US-10-131-826A-360 | Sequence 360, App |
| 378 | 27 | 55.1 | 463 | 9 | US-10-973-115B-360 | Sequence 360, App |
| 379 | 27 | 55.1 | 463 | 9 | US-10-137-873A-360 | Sequence 360, App |
| 380 | 27 | 55.1 | 463 | 9 | US-10-152-370-360 | Sequence 360, App |
| 381 | 27 | 55.1 | 463 | 11 | US-11-154-673-9 | Sequence 9, Appli |
| 382 | 27 | 55.1 | 463 | 11 | US-11-290-153-360 | Sequence 360, App |
| 383 | 27 | 55.1 | 464 | 11 | US-11-096-568A-6563 | Sequence 6563, Ap |
| 384 | 27 | 55.1 | 473 | 11 | US-11-096-568A-25736 | Sequence 25736, A |
| 385 | 27 | 55.1 | 481 | 11 | US-11-096-568A-31400 | Sequence 31400, A |
| 386 | 27 | 55.1 | 481 | 11 | US-11-096-568A-33459 | Sequence 33459, A |

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| 387 | 27 | 55.1 | 485 | 11 | US-11-096-568A-6562 | Sequence 6562, Ap |
| 388 | 27 | 55.1 | 486 | 11 | US-11-188-298-10224 | Sequence 10224, A |
| 389 | 27 | 55.1 | 486 | 11 | US-11-188-298-13407 | Sequence 13407, A |
| 390 | 27 | 55.1 | 506 | 11 | US-11-154-673-2 | Sequence 2, Appli |
| 391 | 27 | 55.1 | 514 | 11 | US-11-087-099-2712 | Sequence 2712, Ap |
| 392 | 27 | 55.1 | 514 | 11 | US-11-188-298-12674 | Sequence 12674, A |
| 393 | 27 | 55.1 | 529 | 11 | US-11-096-568A-31399 | Sequence 31399, A |
| 394 | 27 | 55.1 | 536 | 11 | US-11-123-873-5 | Sequence 5, Appli |
| 395 | 27 | 55.1 | 547 | 9 | US-10-770-726-87 | Sequence 87, Appl |
| 396 | 27 | 55.1 | 550 | 11 | US-11-154-673-8 | Sequence 8, Appli |
| 397 | 27 | 55.1 | 555 | 9 | US-10-763-712A-119 | Sequence 119, App |
| 398 | 27 | 55.1 | 555 | 11 | US-11-096-568A-33458 | Sequence 33458, A |
| 399 | 27 | 55.1 | 560 | 11 | US-11-096-568A-33457 | Sequence 33457, A |
| 400 | 27 | 55.1 | 593 | 11 | US-11-154-673-3 | Sequence 3, Appli |
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| 402 | 27 | 55.1 | 614 | 11 | US-11-126-841A-2 | Sequence 2, Appli |
| 403 | 27 | 55.1 | 614 | 11 | US-11-126-841A-13 | Sequence 13, Appl |
| 404 | 27 | 55.1 | 625 | 11 | US-11-154-673-7 | Sequence 7, Appli |
| 405 | 27 | 55.1 | 665 | 11 | US-11-087-099-1536 | Sequence 1536, Ap |
| 406 | 27 | 55.1 | 705 | 11 | US-11-079-463-9313 | Sequence 9313, Ap |
| 407 | 27 | 55.1 | 708 | 11 | US-11-174-150-25 | Sequence 25, Appl |
| 408 | 27 | 55.1 | 736 | 11 | US-11-174-150-26 | Sequence 26, Appl |
| 409 | 27 | 55.1 | 736 | 11 | US-11-078-189-9 | Sequence 9, Appli |
| 410 | 27 | 55.1 | 739 | 11 | US-11-078-189-12 | Sequence 12, Appl |
| 411 | 27 | 55.1 | 798 | 11 | US-11-079-463-7882 | Sequence 7882, Ap |
| 412 | 27 | 55.1 | 829 | 11 | US-11-072-512-3439 | Sequence 3439, Ap |
| 413 | 27 | 55.1 | 830 | 8 | US-10-511-937-2474 | Sequence 2474, Ap |
| 414 | 27 | 55.1 | 837 | 11 | US-11-094-519A-43 | Sequence 43, Appl |
| 415 | 27 | 55.1 | 841 | 11 | US-11-294-997-37 | Sequence 37, Appl |
| 416 | 27 | 55.1 | 845 | 11 | US-11-094-519A-42 | Sequence 42, Appl |
| 417 | 27 | 55.1 | 855 | 9 | US-10-714-995-14 | Sequence 14, Appl |
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| 419 | 27 | 55.1 | 867 | 11 | US-11-096-568A-24557 | Sequence 24557, A |
| 420 | 27 | 55.1 | 894 | 11 | US-11-087-099-11214 | Sequence 11214, A |
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| 422 | 27 | 55.1 | 910 | 9 | US-10-506-454-1035 | Sequence 1035, Ap |
| 423 | 27 | 55.1 | 953 | 11 | US-11-057-058-53 | Sequence 53, Appl |
| 424 | 27 | 55.1 | 953 | 11 | US-11-057-058-56 | Sequence 56, Appl |
| 425 | 27 | 55.1 | 953 | 11 | US-11-057-058-57 | Sequence 57, Appl |
| 426 | 27 | 55.1 | 955 | 11 | US-11-079-463-6141 | Sequence 6141, Ap |
| 427 | 27 | 55.1 | 1003 | 11 | US-11-079-463-8793 | Sequence 8793, Ap |
| 428 | 27 | 55.1 | 1022 | 11 | US-11-186-284-163 | Sequence 163, App |
| 429 | 27 | 55.1 | 1022 | 11 | US-11-072-175-244 | Sequence 244, App |
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| 431 | 27 | 55.1 | 1148 | 7 | US-09-824-575A-4 | Sequence 4, Appli |
| 432 | 27 | 55.1 | 1194 | 9 | US-10-204-639-62 | Sequence 62, Appl |
| 433 | 27 | 55.1 | 1236 | 11 | US-11-115-086-4 | Sequence 4, Appli |
| 434 | 27 | 55.1 | 1473 | 11 | US-11-019-711-112 | Sequence 112, App |
| 435 | 27 | 55.1 | 1722 | 9 | US-10-714-995-48 | Sequence 48, Appl |
| 436 | 27 | 55.1 | 2204 | 11 | US-11-052-554A-174 | Sequence 174, App |
| 437 | 27 | 55.1 | 2516 | 9 | US-10-647-956A-2 | Sequence 2, Appli |
| 438 | 27 | 55.1 | 4495 | 9 | US-10-453-372-1002 | Sequence 1002, Ap |
| 439 | 27 | 55.1 | 5636 | 11 | US-11-065-695-20 | Sequence 20, Appl |
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| 442 | 26 | 53.1 | 15 | 11 | US-11-054-515-2886 | Sequence 2886, Ap |
| 443 | 26 | 53.1 | 15 | 11 | US-11-266-444-2730 | Sequence 2730, Ap |
| 444 | 26 | 53.1 | 15 | 11 | US-11-266-444-2886 | Sequence 2886, Ap |
| 445 | 26 | 53.1 | 16 | 11 | US-11-054-515-2760 | Sequence 2760, Ap |
| 446 | 26 | 53.1 | 16 | 11 | US-11-054-515-2863 | Sequence 2863, Ap |
| 447 | 26 | 53.1 | 16 | 11 | US-11-054-515-2907 | Sequence 2907, Ap |
| 448 | 26 | 53.1 | 16 | 11 | US-11-054-515-3022 | Sequence 3022, Ap |
| 449 | 26 | 53.1 | 16 | 11 | US-11-152-974A-239 | Sequence 239, App |
| 450 | 26 | 53.1 | 16 | 11 | US-11-153-143A-239 | Sequence 239, App |
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| 452 | 26 | 53.1 | 16 | 11 | US-11-266-444-2863 | Sequence 2863, Ap |
| 453 | 26 | 53.1 | 16 | 11 | US-11-266-444-2907 | Sequence 2907, Ap |
| 454 | 26 | 53.1 | 16 | 11 | US-11-266-444-3022 | Sequence 3022, Ap |
| 455 | 26 | 53.1 | 17 | 11 | US-11-054-515-2831 | Sequence 2831, Ap |
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| 458 | 26 | 53.1 | 17 | 11 | US-11-266-444-3019 | Sequence 3019, Ap |
| 459 | 26 | 53.1 | 18 | 11 | US-11-054-515-2802 | Sequence 2802, Ap |
| 460 | 26 | 53.1 | 18 | 11 | US-11-054-515-2833 | Sequence 2833, Ap |
| 461 | 26 | 53.1 | 18 | 11 | US-11-054-515-2844 | Sequence 2844, Ap |
| 462 | 26 | 53.1 | 18 | 11 | US-11-054-515-2917 | Sequence 2917, Ap |
| 463 | 26 | 53.1 | 18 | 11 | US-11-054-515-3000 | Sequence 3000, Ap |
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| 466 | 26 | 53.1 | 18 | 11 | US-11-266-444-2844 | Sequence 2844, Ap |
| 467 | 26 | 53.1 | 18 | 11 | US-11-266-444-2917 | Sequence 2917, Ap |
| 468 | 26 | 53.1 | 18 | 11 | US-11-266-444-3000 | Sequence 3000, Ap |
| 469 | 26 | 53.1 | 19 | 11 | US-11-054-515-2962 | Sequence 2962, Ap |
| 470 | 26 | 53.1 | 19 | 11 | US-11-266-444-2962 | Sequence 2962, Ap |
| 471 | 26 | 53.1 | 21 | 11 | US-11-054-515-3021 | Sequence 3021, Ap |
| 472 | 26 | 53.1 | 21 | 11 | US-11-266-444-3021 | Sequence 3021, Ap |
| 473 | 26 | 53.1 | 34 | 11 | US-11-009-840A-119 | Sequence 119, App |
| 474 | 26 | 53.1 | 34 | 11 | US-11-009-873A-119 | Sequence 119, App |
| 475 | 26 | 53.1 | 34 | 11 | US-11-009-769A-119 | Sequence 119, App |
| 476 | 26 | 53.1 | 36 | 9 | US-10-467-657-9035 | Sequence 9035, Ap |
| 477 | 26 | 53.1 | 39 | 9 | US-10-895-064-2436 | Sequence 2436, Ap |
| 478 | 26 | 53.1 | 39 | 11 | US-11-129-741-2436 | Sequence 2436, Ap |
| 479 | 26 | 53.1 | 44 | 9 | US-10-957-887B-152 | Sequence 152, App |
| 480 | 26 | 53.1 | 58 | 9 | US-10-467-657-6892 | Sequence 6892, Ap |
| 481 | 26 | 53.1 | 66 | 11 | US-11-118-855-5 | Sequence 5, Appli |
| 482 | 26 | 53.1 | 72 | 11 | US-11-079-463-9196 | Sequence 9196, Ap |
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| 484 | 26 | 53.1 | 103 | 11 | US-11-000-463-740 | Sequence 740, App |
| 485 | 26 | 53.1 | 104 | 9 | US-10-467-657-6588 | Sequence 6588, Ap |
| 486 | 26 | 53.1 | 108 | 7 | US-09-978-360A-441 | Sequence 441, App |
| 487 | 26 | 53.1 | 134 | 11 | US-11-052-554A-88 | Sequence 88, Appl |
| 488 | 26 | 53.1 | 138 | 11 | US-11-096-568A-1466 | Sequence 1466, Ap |
| 489 | 26 | 53.1 | 140 | 9 | US-10-506-454-455 | Sequence 455, App |
| 490 | 26 | 53.1 | 142 | 11 | US-11-072-175-162 | Sequence 162, App |
| 491 | 26 | 53.1 | 157 | 11 | US-11-188-298-20702 | Sequence 20702, A |
| 492 | 26 | 53.1 | 163 | 11 | US-11-024-959-435 | Sequence 435, App |
| 493 | 26 | 53.1 | 169 | 11 | US-11-098-686-93 | Sequence 93, Appl |
| 494 | 26 | 53.1 | 173 | 9 | US-10-511-538-190 | Sequence 190, App |
| 495 | 26 | 53.1 | 174 | 11 | US-11-096-568A-14891 | Sequence 14891, A |
| 496 | 26 | 53.1 | 175 | 9 | US-10-873-528-90 | Sequence 90, Appl |
| 497 | 26 | 53.1 | 178 | 11 | US-11-188-298-17842 | Sequence 17842, A |
| 498 | 26 | 53.1 | 180 | 11 | US-11-079-463-8262 | Sequence 8262, Ap |
| 499 | 26 | 53.1 | 194 | 11 | US-11-188-298-15273 | Sequence 15273, A |
| 500 | 26 | 53.1 | 203 | 11 | US-11-096-568A-1465 | Sequence 1465, Ap |
| 501 | 26 | 53.1 | 204 | 9 | US-10-467-657-4830 | Sequence 4830, Ap |
| 502 | 26 | 53.1 | 213 | 11 | US-11-096-568A-30853 | Sequence 30853, A |
| 503 | 26 | 53.1 | 214 | 11 | US-11-188-298-2924 | Sequence 2924, Ap |
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| 506 | 26 | 53.1 | 225 | 11 | US-11-096-568A-14890 | Sequence 14890, A |
| 507 | 26 | 53.1 | 225 | 11 | US-11-096-568A-30852 | Sequence 30852, A |
| 508 | 26 | 53.1 | 233 | 11 | US-11-188-298-4775 | Sequence 4775, Ap |
| 509 | 26 | 53.1 | 233 | 11 | US-11-188-298-13176 | Sequence 13176, A |
| 510 | 26 | 53.1 | 237 | 9 | US-10-873-528-103 | Sequence 103, App |
| 511 | 26 | 53.1 | 238 | 11 | US-11-079-463-6309 | Sequence 6309, Ap |
| 512 | 26 | 53.1 | 244 | 9 | US-10-784-004-1173 | Sequence 1173, Ap |
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| 514 | 26 | 53.1 | 247 | 9 | US-10-821-234-1174 | Sequence 1174, Ap |
| 515 | 26 | 53.1 | 248 | 11 | US-11-054-515-1700 | Sequence 1700, Ap |
| 516 | 26 | 53.1 | 248 | 11 | US-11-054-515-1778 | Sequence 1778, Ap |
| 517 | 26 | 53.1 | 248 | 11 | US-11-054-515-1790 | Sequence 1790, Ap |
| 518 | 26 | 53.1 | 248 | 11 | US-11-266-444-1700 | Sequence 1700, Ap |
| 519 | 26 | 53.1 | 248 | 11 | US-11-266-444-1778 | Sequence 1778, Ap |
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| 524 | 26 | 53.1 | 250 | 11 | US-11-054-515-1723 | Sequence 1723, Ap |
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| 528 | 26 | 53.1 | 250 | 11 | US-11-266-444-1723 | Sequence 1723, Ap |
| 529 | 26 | 53.1 | 251 | 11 | US-11-054-515-1802 | Sequence 1802, Ap |
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| 534 | 26 | 53.1 | 252 | 11 | US-11-054-515-1852 | Sequence 1852, Ap |
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| 540 | 26 | 53.1 | 253 | 11 | US-11-054-515-1530 | Sequence 1530, Ap |
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| 548 | 26 | 53.1 | 253 | 11 | US-11-266-444-1859 | Sequence 1859, Ap |
| 549 | 26 | 53.1 | 254 | 11 | US-11-054-515-1295 | Sequence 1295, Ap |
| 550 | 26 | 53.1 | 254 | 11 | US-11-266-444-1295 | Sequence 1295, Ap |
| 551 | 26 | 53.1 | 255 | 11 | US-11-054-515-1642 | Sequence 1642, Ap |
| 552 | 26 | 53.1 | 255 | 11 | US-11-266-444-1642 | Sequence 1642, Ap |
| 553 | 26 | 53.1 | 266 | 11 | US-11-087-099-1163 | Sequence 1163, Ap |
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| 559 | 26 | 53.1 | 304 | 11 | US-11-096-568A-7821 | Sequence 7821, Ap |
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| 564 | 26 | 53.1 | 313 | 11 | US-11-096-568A-10470 | Sequence 10470, A |
| 565 | 26 | 53.1 | 314 | 11 | US-11-188-298-19562 | Sequence 19562, A |
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| 567 | 26 | 53.1 | 317 | 11 | US-11-096-568A-28834 | Sequence 28834, A |
| 568 | 26 | 53.1 | 318 | 11 | US-11-096-568A-3248 | Sequence 3248, Ap |
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| 570 | 26 | 53.1 | 323 | 11 | US-11-156-084-294 | Sequence 294, App |
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| 572 | 26 | 53.1 | 324 | 11 | US-11-087-099-8018 | Sequence 8018, Ap |
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| 574 | 26 | 53.1 | 324 | 11 | US-11-087-099-10335 | Sequence 10335, A |
| 575 | 26 | 53.1 | 324 | 11 | US-11-087-099-11267 | Sequence 11267, A |
| 576 | 26 | 53.1 | 324 | 11 | US-11-096-568A-10468 | Sequence 10468, A |
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| 583 | 26 | 53.1 | 336 | 11 | US-11-096-568A-19463 | Sequence 19463, A |
| 584 | 26 | 53.1 | 342 | 11 | US-11-096-568A-19206 | Sequence 19206, A |
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| 590 | 26 | 53.1 | 353 | 11 | US-11-147-606-2 | Sequence 2, Appli |
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| 592 | 26 | 53.1 | 359 | 9 | US-10-784-004-738 | Sequence 738, App |
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| 601 | 26 | 53.1 | 371 | 11 | US-11-188-298-13570 | Sequence 13570, A |
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| 605 | 26 | 53.1 | 387 | 11 | US-11-096-568A-11098 | Sequence 11098, A |
| 606 | 26 | 53.1 | 387 | 11 | US-11-096-568A-28833 | Sequence 28833, A |
| 607 | 26 | 53.1 | 398 | 11 | US-11-098-686-10267 | Sequence 10267, A |
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| 609 | 26 | 53.1 | 410 | 11 | US-11-096-568A-5681 | Sequence 5681, Ap |
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| 614 | 26 | 53.1 | 422 | 11 | US-11-045-004-879 | Sequence 879, App |
| 615 | 26 | 53.1 | 426 | 11 | US-11-087-099-7886 | Sequence 7886, Ap |
| 616 | 26 | 53.1 | 426 | 11 | US-11-087-099-9882 | Sequence 9882, Ap |
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| 623 | 26 | 53.1 | 453 | 11 | US-11-087-099-7775 | Sequence 7775, Ap |
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| 625 | 26 | 53.1 | 459 | 11 | US-11-203-526-22 | Sequence 22, Appl |
| 626 | 26 | 53.1 | 460 | 11 | US-11-076-163-5 | Sequence 5, Appli |
| 627 | 26 | 53.1 | 460 | 11 | US-11-166-412-68 | Sequence 68, Appl |
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| 631 | 26 | 53.1 | 463 | 11 | US-11-087-099-4896 | Sequence 4896, Ap |
| 632 | 26 | 53.1 | 463 | 11 | US-11-087-099-8945 | Sequence 8945, Ap |
| 633 | 26 | 53.1 | 463 | 11 | US-11-188-298-2840 | Sequence 2840, Ap |
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| 635 | 26 | 53.1 | 463 | 11 | US-11-188-298-19286 | Sequence 19286, A |
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| 640 | 26 | 53.1 | 472 | 11 | US-11-165-211-2 | Sequence 2, Appli |
| 641 | 26 | 53.1 | 472 | 11 | US-11-165-211-3 | Sequence 3, Appli |
| 642 | 26 | 53.1 | 472 | 11 | US-11-165-211-4 | Sequence 4, Appli |
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| 649 | 26 | 53.1 | 472 | 11 | US-11-165-226-4 | Sequence 4, Appli |
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| 653 | 26 | 53.1 | 472 | 11 | US-11-165-226-9 | Sequence 9, Appli |
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| 655 | 26 | 53.1 | 472 | 11 | US-11-165-226-11 | Sequence 11, Appl |
| 656 | 26 | 53.1 | 472 | 11 | US-11-165-226-12 | Sequence 12, Appl |
| 657 | 26 | 53.1 | 472 | 11 | US-11-165-226-13 | Sequence 13, Appl |
| 658 | 26 | 53.1 | 473 | 9 | US-10-509-464-5 | Sequence 5, Appli |
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| 661 | 26 | 53.1 | 474 | 11 | US-11-188-298-15221 | Sequence 15221, A |
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| 663 | 26 | 53.1 | 477 | 9 | US-10-973-115B-452 | Sequence 452, App |
| 664 | 26 | 53.1 | 477 | 9 | US-10-137-873A-452 | Sequence 452, App |
| 665 | 26 | 53.1 | 477 | 9 | US-10-152-370-452 | Sequence 452, App |
| 666 | 26 | 53.1 | 477 | 11 | US-11-290-153-452 | Sequence 452, App |
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| 668 | 26 | 53.1 | 480 | 11 | US-11-096-568A-5679 | Sequence 5679, Ap |
| 669 | 26 | 53.1 | 485 | 11 | US-11-043-889-52 | Sequence 52, Appl |
| 670 | 26 | 53.1 | 485 | 11 | US-11-188-298-6318 | Sequence 6318, Ap |
| 671 | 26 | 53.1 | 486 | 11 | US-11-087-099-8629 | Sequence 8629, Ap |
| 672 | 26 | 53.1 | 486 | 11 | US-11-188-298-19034 | Sequence 19034, A |
| 673 | 26 | 53.1 | 496 | 11 | US-11-096-568A-22028 | Sequence 22028, A |
| 674 | 26 | 53.1 | 496 | 11 | US-11-096-568A-28832 | Sequence 28832, A |
| 675 | 26 | 53.1 | 499 | 11 | US-11-096-568A-22027 | Sequence 22027, A |
| 676 | 26 | 53.1 | 503 | 9 | US-10-821-234-1527 | Sequence 1527, Ap |
| 677 | 26 | 53.1 | 504 | 8 | US-10-505-928-42 | Sequence 42, Appl |
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| 680 | 26 | 53.1 | 517 | 9 | US-10-784-004-718 | Sequence 718, App |
| 681 | 26 | 53.1 | 517 | 11 | US-11-172-740-1439 | Sequence 1439, Ap |
| 682 | 26 | 53.1 | 517 | 11 | US-11-172-740-1440 | Sequence 1440, Ap |
| 683 | 26 | 53.1 | 519 | 11 | US-11-188-298-408 | Sequence 408, App |
| 684 | 26 | 53.1 | 541 | 11 | US-11-118-855-26 | Sequence 26, Appl |
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| 687 | 26 | 53.1 | 562 | 9 | US-10-508-263-24 | Sequence 24, Appl |
| 688 | 26 | 53.1 | 582 | 11 | US-11-096-568A-32895 | Sequence 32895, A |
| 689 | 26 | 53.1 | 593 | 11 | US-11-169-041-239 | Sequence 239, App |
| 690 | 26 | 53.1 | 600 | 8 | US-10-370-959-155 | Sequence 155, App |
| 691 | 26 | 53.1 | 603 | 9 | US-10-525-907-22 | Sequence 22, Appl |
| 692 | 26 | 53.1 | 603 | 11 | US-11-188-298-13167 | Sequence 13167, A |
| 693 | 26 | 53.1 | 605 | 11 | US-11-188-298-3366 | Sequence 3366, Ap |
| 694 | 26 | 53.1 | 606 | 11 | US-11-188-298-10570 | Sequence 10570, A |
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| 696 | 26 | 53.1 | 619 | 11 | US-11-072-512-2497 | Sequence 2497, Ap |
| 697 | 26 | 53.1 | 637 | 9 | US-10-714-995-4 | Sequence 4, Appli |
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| 702 | 26 | 53.1 | 686 | 9 | US-10-194-487-524 | Sequence 524, App |
| 703 | 26 | 53.1 | 686 | 9 | US-10-195-883-524 | Sequence 524, App |
| 704 | 26 | 53.1 | 686 | 9 | US-10-195-888-524 | Sequence 524, App |
| 705 | 26 | 53.1 | 686 | 9 | US-10-195-889-524 | Sequence 524, App |
| 706 | 26 | 53.1 | 698 | 9 | US-10-506-454-70 | Sequence 70, Appl |
| 707 | 26 | 53.1 | 698 | 11 | US-11-188-298-8488 | Sequence 8488, Ap |
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| 709 | 26 | 53.1 | 708 | 11 | US-11-045-004-1265 | Sequence 1265, Ap |
| 710 | 26 | 53.1 | 720 | 11 | US-11-087-099-7216 | Sequence 7216, Ap |
| 711 | 26 | 53.1 | 743 | 11 | US-11-229-769-168 | Sequence 168, App |
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| 713 | 26 | 53.1 | 746 | 9 | US-10-828-831-7 | Sequence 7, Appli |
| 714 | 26 | 53.1 | 753 | 11 | US-11-137-465-51 | Sequence 51, Appl |
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| 717 | 26 | 53.1 | 780 | 9 | US-10-784-004-760 | Sequence 760, App |
| 718 | 26 | 53.1 | 787 | 11 | US-11-154-227-110 | Sequence 110, App |
| 719 | 26 | 53.1 | 797 | 11 | US-11-154-227-112 | Sequence 112, App |
| 720 | 26 | 53.1 | 798 | 9 | US-10-218-784-132 | Sequence 132, App |
| 721 | 26 | 53.1 | 798 | 9 | US-10-219-061-132 | Sequence 132, App |
| 722 | 26 | 53.1 | 798 | 9 | US-10-219-062-132 | Sequence 132, App |
| 723 | 26 | 53.1 | 798 | 9 | US-10-219-064-132 | Sequence 132, App |
| 724 | 26 | 53.1 | 798 | 9 | US-10-233-134-132 | Sequence 132, App |
| 725 | 26 | 53.1 | 798 | 9 | US-10-216-161A-405 | Sequence 405, App |
| 726 | 26 | 53.1 | 799 | 11 | US-11-156-300-30 | Sequence 30, Appl |
| 727 | 26 | 53.1 | 800 | 9 | US-10-194-487-478 | Sequence 478, App |
| 728 | 26 | 53.1 | 800 | 9 | US-10-195-883-478 | Sequence 478, App |
| 729 | 26 | 53.1 | 800 | 9 | US-10-195-888-478 | Sequence 478, App |
| 730 | 26 | 53.1 | 800 | 9 | US-10-195-889-478 | Sequence 478, App |
| 731 | 26 | 53.1 | 800 | 9 | US-10-226-486-52 | Sequence 52, Appl |
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| 734 | 26 | 53.1 | 845 | 11 | US-11-079-463-9999 | Sequence 9999, Ap |
| 735 | 26 | 53.1 | 855 | 11 | US-11-188-298-3260 | Sequence 3260, Ap |
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| 738 | 26 | 53.1 | 903 | 11 | US-11-072-512-2460 | Sequence 2460, Ap |
| 739 | 26 | 53.1 | 909 | 11 | US-11-188-298-10178 | Sequence 10178, A |
| 740 | 26 | 53.1 | 914 | 11 | US-11-188-298-10104 | Sequence 10104, A |
| 741 | 26 | 53.1 | 932 | 11 | US-11-188-743-17 | Sequence 17, Appl |
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| 771 | 26 | 53.1 | 1706 | 11 | US-11-096-568A-27854 | Sequence 27854, A |
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| 989 | 25 | 51.0 | 104 | 11 | US-11-064-774A-659 | Sequence 659, App |
| 990 | 25 | 51.0 | 104 | 11 | US-11-064-774A-667 | Sequence 667, App |
| 991 | 25 | 51.0 | 104 | 11 | US-11-064-774A-675 | Sequence 675, App |
| 992 | 25 | 51.0 | 104 | 11 | US-11-064-774A-683 | Sequence 683, App |
| 993 | 25 | 51.0 | 104 | 11 | US-11-064-774A-947 | Sequence 947, App |
| 994 | 25 | 51.0 | 104 | 11 | US-11-064-774A-955 | Sequence 955, App |
| 995 | 25 | 51.0 | 104 | 11 | US-11-064-774A-963 | Sequence 963, App |
| 996 | 25 | 51.0 | 104 | 11 | US-11-064-774A-971 | Sequence 971, App |
| 997 | 25 | 51.0 | 104 | 11 | US-11-064-774A-979 | Sequence 979, App |
| 998 | 25 | 51.0 | 104 | 11 | US-11-064-774A-987 | Sequence 987, App |
| 999 | 25 | 51.0 | 104 | 11 | US-11-064-774A-995 | Sequence 995, App |
| 1000 | 25 | 51.0 | 104 | 11 | US-11-064-774A-1003 | Sequence 1003, Ap |

ALIGNMENTS

```
RESULT 1
US-10-530-253-41
; Sequence 41, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 41
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-41

  Query Match             100.0%;  Score 49;  DB 9;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.9e+05;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          1 RAHYNIVTF 9


RESULT 2
US-10-962-951-9
; Sequence 9, Application US/10962951
; Publication No. US20060029610A1
; GENERAL INFORMATION:
;  APPLICANT: Argon, Yair
;  APPLICANT:  Gidalevitz, Tali
;  APPLICANT:  Biswas, Chhanda
;  APPLICANT:  Simen, Birgitte B.
;  APPLICANT:  Wanderling, Sherry
;  APPLICANT:  Ostrovsky, Olga
;  TITLE OF INVENTION: GRP94-BASED COMPOSITIONS AND METHODS OF
;  TITLE OF INVENTION:  USE THEREOF
;  FILE REFERENCE: 3460-CHOP.C-206US
;  CURRENT APPLICATION NUMBER: US/10/962,951
;  CURRENT FILING DATE:  2004-10-12
;  PRIOR APPLICATION NUMBER: US/10/844,711
;  PRIOR FILING DATE: 2004-05-12
;  PRIOR APPLICATION NUMBER: 60/469,723
;  PRIOR FILING DATE: 2003-05-12
;  PRIOR APPLICATION NUMBER: 60/477,990
;  PRIOR FILING DATE: 2003-06-12
;  PRIOR APPLICATION NUMBER: 60/478,149
;  PRIOR FILING DATE: 2003-06-12
;  PRIOR APPLICATION NUMBER: 60/556,362
;  PRIOR FILING DATE: 2004-04-28
;  PRIOR APPLICATION NUMBER: 60/566,363
;  PRIOR FILING DATE: 2004-04-28
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 9
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: RAH
US-10-962-951-9

  Query Match             100.0%;  Score 49;  DB 9;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.9e+05;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          1 RAHYNIVTF 9


RESULT 3
US-11-041-893-100
; Sequence 100, Application US/11041893
; Publication No. US20060002941A1
; GENERAL INFORMATION:
;  APPLICANT: Mahairas, Gregory G.
;  TITLE OF INVENTION: COMPOSITIONS COMPRISING IMMUNE RESPONSE
;  TITLE OF INVENTION:  ALTERING AGENTS AND METHODS OF USE
;  FILE REFERENCE: 100123.401
;  CURRENT APPLICATION NUMBER: US/11/041,893
;  CURRENT FILING DATE:  2005-01-24
;  PRIOR APPLICATION NUMBER: US 60/616,855
;  PRIOR FILING DATE: 2004-10-06
;  PRIOR APPLICATION NUMBER: US 60/538,713
;  PRIOR FILING DATE: 2004-01-23
;  NUMBER OF SEQ ID NOS: 295
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 100
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus E7
US-11-041-893-100

  Query Match             100.0%;  Score 49;  DB 11;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.9e+05;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          1 RAHYNIVTF 9
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```
RESULT 4
US-11-121-840-5
; Sequence 5, Application US/11121840
; Publication No. US20060008472A1
; GENERAL INFORMATION:
;  APPLICANT: Huang, Leaf
;  APPLICANT:  Cui, Zhengrong
;  APPLICANT:  Dileo, John
;  APPLICANT:  Han, Su-Ji
;  APPLICANT:  Vangasseri, Dileep P.
;  APPLICANT:  University of Pittsburgh
;  TITLE OF INVENTION: Antigen Delivery Compositions and Methods of Use
;  FILE REFERENCE: 022317-000110US
;  CURRENT APPLICATION NUMBER: US/11/121,840
;  CURRENT FILING DATE:  2005-05-02
;  PRIOR APPLICATION NUMBER: US 60/567,291
;  PRIOR FILING DATE: 2004-04-30
;  NUMBER OF SEQ ID NOS: 5
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:human
;   OTHER INFORMATION: papillomavirus subtype 16 E7 oncogene
;   OTHER INFORMATION: tumor-associated antigen MHC class I restricted
;   OTHER INFORMATION: peptide
US-11-121-840-5

  Query Match            100.0%;  Score 49;  DB 11;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 1.9e+05;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          1 RAHYNIVTF 9


RESULT 5
US-11-041-893-101
; Sequence 101, Application US/11041893
; Publication No. US20060002941A1
; GENERAL INFORMATION:
;  APPLICANT: Mahairas, Gregory G.
;  TITLE OF INVENTION: COMPOSITIONS COMPRISING IMMUNE RESPONSE
;  TITLE OF INVENTION:  ALTERING AGENTS AND METHODS OF USE
;  FILE REFERENCE: 100123.401
;  CURRENT APPLICATION NUMBER: US/11/041,893
;  CURRENT FILING DATE:  2005-01-24
;  PRIOR APPLICATION NUMBER: US 60/616,855
;  PRIOR FILING DATE: 2004-10-06
;  PRIOR APPLICATION NUMBER: US 60/538,713
;  PRIOR FILING DATE: 2004-01-23
;  NUMBER OF SEQ ID NOS: 295
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 101
;   LENGTH: 35
;   TYPE: PRT
;   ORGANISM: Human Papillomavirus E7
US-11-041-893-101

  Query Match            100.0%;  Score 49;  DB 11;  Length 35;
  Best Local Similarity   100.0%;  Pred. No. 0.0029;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db          7 RAHYNIVTF 15


RESULT 6
US-10-511-814-8
; Sequence 8, Application US/10511814
; Publication No. US20060088472A1
; GENERAL INFORMATION:
;  APPLICANT: McCance, Dennis
;  APPLICANT:  Westbrook, III, Thomas F.
;  TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
;  FILE REFERENCE: 21108.0016U2
;  CURRENT APPLICATION NUMBER: US/10/511,814
;  CURRENT FILING DATE:  2004-10-19
;  PRIOR APPLICATION NUMBER: PCT/US03/12667
;  PRIOR FILING DATE: 2003-04-21
;  PRIOR APPLICATION NUMBER: 60/374,245
;  PRIOR FILING DATE: 2002-04-19
;  NUMBER OF SEQ ID NOS: 21
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:/Note =
;   OTHER INFORMATION: Synthetic Construct
US-10-511-814-8

  Query Match            100.0%;  Score 49;  DB 8;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.0084;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         49 RAHYNIVTF 57


RESULT 7
US-10-511-814-11
; Sequence 11, Application US/10511814
; Publication No. US20060088472A1
; GENERAL INFORMATION:
;  APPLICANT: McCance, Dennis
;  APPLICANT:  Westbrook, III, Thomas F.
;  TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
;  FILE REFERENCE: 21108.0016U2
;  CURRENT APPLICATION NUMBER: US/10/511,814
;  CURRENT FILING DATE:  2004-10-19
;  PRIOR APPLICATION NUMBER: PCT/US03/12667
;  PRIOR FILING DATE: 2003-04-21
;  PRIOR APPLICATION NUMBER: 60/374,245
;  PRIOR FILING DATE: 2002-04-19
;  NUMBER OF SEQ ID NOS: 21
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:/Note =
;   OTHER INFORMATION: Synthetic Construct
US-10-511-814-11

  Query Match            100.0%;  Score 49;  DB 8;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.0084;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         49 RAHYNIVTF 57


RESULT 8
US-10-530-253-14
; Sequence 14, Application US/10530253
```

```
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 14
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-14

  Query Match             100.0%;  Score 49;  DB 9;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.0084;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         49 RAHYNIVTF 57


RESULT 9
US-11-179-478-4
; Sequence 4, Application US/11179478
; Publication No. US20050249745A1
;  GENERAL INFORMATION:
;    APPLICANT:  BURGER, Alexander
;    APPLICANT:  HALLEK, Michael
;    TITLE OF INVENTION:  PAPILLOMA VIRUS CAPSOMERE VACCINE
;    TITLE OF INVENTION:  FORMULATIONS AND METHODS OF USE
;    NUMBER OF SEQUENCES:  28
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  FOLEY & LARDNER
;      STREET:  3000 K Street, N.W.
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20007-5109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/11/179,478
;      FILING DATE:  13-JULY-2005
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/10/654,129
;      FILING DATE:  04-Sep-2003
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Sandercock, Colin G.
;      REGISTRATION NUMBER:  31,298
;      REFERENCE/DOCKET NUMBER:  37067/102
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 672-5300
;      TELEFAX:  (202) 672-5399
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  98 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-11-179-478-4

  Query Match             100.0%;  Score 49;  DB 11;  Length 98;
  Best Local Similarity   100.0%;  Pred. No. 0.0084;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         49 RAHYNIVTF 57


RESULT 10
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-1

  Query Match             100.0%;  Score 49;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.022;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db        199 RAHYNIVTF 207


RESULT 11
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-3

  Query Match             100.0%;  Score 49;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.022;
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  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db        199 RAHYNIVTF 207


RESULT 12
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-5

  Query Match            100.0%;  Score 49;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.022;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db        199 RAHYNIVTF 207


RESULT 13
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-7

  Query Match            100.0%;  Score 49;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.022;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         49 RAHYNIVTF 57


RESULT 14
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-9

  Query Match            100.0%;  Score 49;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.022;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         49 RAHYNIVTF 57


RESULT 15
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 16
US-10-530-253-11

  Query Match            100.0%;  Score 49;  DB 9;  Length 248;
  Best Local Similarity   100.0%;  Pred. No. 0.022;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         49 RAHYNIVTF 57


RESULT 16
US-11-192-923A-2
; Sequence 2, Application US/11192923A
```

```
; Publication No. US20060018928A1
; GENERAL INFORMATION:
;  APPLICANT: PANG, XIAOWU
;  TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
;  TITLE OF INVENTION:  RECOMBINANT REPLICON
;  FILE REFERENCE: 116620-003
;  CURRENT APPLICATION NUMBER: US/11/192,923A
;  CURRENT FILING DATE:  2005-07-29
;  PRIOR APPLICATION NUMBER: CN 03115272.4
;  PRIOR FILING DATE: 2003-01-30
;  PRIOR APPLICATION NUMBER: CN 03115273.2
;  PRIOR FILING DATE: 2003-01-30
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
;   LENGTH: 256
;   TYPE: PRT
;   ORGANISM: Human papillomavirus
US-11-192-923A-2

  Query Match             100.0%;  Score 49;  DB 11;  Length 256;
  Best Local Similarity   100.0%;  Pred. No. 0.023;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||||||||
Db         49 RAHYNIVTF 57


RESULT 17
US-10-467-657-764
; Sequence 764, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
;  APPLICANT: CHIRON SpA
;  APPLICANT: FONTANA Maria Rita
;  APPLICANT: PIZZA Mariagrazia
;  APPLICANT: MASIGNANI Vega
;  APPLICANT: MONACI Elisabetta
;  TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
;  FILE REFERENCE:
;  CURRENT APPLICATION NUMBER: US/10/467,657
;  CURRENT FILING DATE:  2003-08-11
;  PRIOR APPLICATION NUMBER: GB-0103424.8
;  PRIOR FILING DATE: 2001-02-12
;  NUMBER OF SEQ ID NOS: 9218
;  SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 764
;   LENGTH: 612
;   TYPE: PRT
;   ORGANISM: Neisseria gonorrhoeae
US-10-467-657-764

  Query Match             75.5%;  Score 37;  DB 9;  Length 612;
  Best Local Similarity   66.7%;  Pred. No. 14;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              |||:|:| |
Db          9 RAHHNVVDF 17


RESULT 18
US-10-467-657-8128
; Sequence 8128, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
;  APPLICANT: CHIRON SpA
;  APPLICANT: FONTANA Maria Rita
;  APPLICANT: PIZZA Mariagrazia
;  APPLICANT: MASIGNANI Vega
;  APPLICANT: MONACI Elisabetta
;  TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
;  FILE REFERENCE:
;  CURRENT APPLICATION NUMBER: US/10/467,657
;  CURRENT FILING DATE:  2003-08-11
;  PRIOR APPLICATION NUMBER: GB-0103424.8
;  PRIOR FILING DATE: 2001-02-12
;  NUMBER OF SEQ ID NOS: 9218
;  SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 8128
;   LENGTH: 43
;   TYPE: PRT
;   ORGANISM: Neisseria gonorrhoeae
US-10-467-657-8128

  Query Match             69.4%;  Score 34;  DB 9;  Length 43;
  Best Local Similarity   100.0%;  Pred. No. 3.5;
  Matches    6;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNI 6
              ||||||
Db          2 RAHYNI 7


RESULT 19
US-10-530-253-28
; Sequence 28, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
;  APPLICANT: Cassetti, Maria C.
;  APPLICANT:  Smith, Larry
;  APPLICANT:  Jeffrey K. Pullen
;  APPLICANT:  Susan P. McElhiney
;  TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;  FILE REFERENCE: 00630/100M137-US2
;  CURRENT APPLICATION NUMBER: US/10/530,253
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US2003/031726
;  PRIOR FILING DATE: 2003-10-02
;  PRIOR APPLICATION NUMBER: US 60/415,929
;  PRIOR FILING DATE: 2002-10-03
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 28
;   LENGTH: 98
;   TYPE: PRT
;   ORGANISM: Human papillomavirus type 31
US-10-530-253-28

  Query Match             69.4%;  Score 34;  DB 9;  Length 98;
  Best Local Similarity   75.0%;  Pred. No. 8.1;
  Matches    6;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 AHYNIVTF 9
              ::||||||
Db         50 SNYNIVTF 57


RESULT 20
US-09-978-360A-549
; Sequence 549, Application US/09978360A
; Publication No. US20060009633A9
; GENERAL INFORMATION:
;  APPLICANT: Edwards, Jean-Baptiste Dumas Milne
;  APPLICANT:  Duclert, Aymeric
;  APPLICANT:  Bougueleret, Lydie
;  APPLICANT:  Jobert, Severin
;  APPLICANT:  Clusel, Catherine
;  TITLE OF INVENTION: Complementary DNA's Encoding Proteins with Signal Peptides
;  FILE REFERENCE: 56.US4.CIP
;  CURRENT APPLICATION NUMBER: US/09/978,360A
;  CURRENT FILING DATE:  2001-10-15
;  PRIOR APPLICATION NUMBER: US 60/066,677
;  PRIOR FILING DATE: 1997-11-13
;  PRIOR APPLICATION NUMBER: US 60/069,957
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;  PRIOR FILING DATE: 1997-12-17
;  PRIOR APPLICATION NUMBER: US 60/074,121
;  PRIOR FILING DATE: 1998-02-09
;  PRIOR APPLICATION NUMBER: US 60/081,563
;  PRIOR FILING DATE: 1998-04-13
;  PRIOR APPLICATION NUMBER: US 60/096,116
;  PRIOR FILING DATE: 1998-08-10
;  PRIOR APPLICATION NUMBER: US 60/099,273
;  PRIOR FILING DATE: -09-04
;  PRIOR APPLICATION NUMBER: US 09/191,997
;  PRIOR FILING DATE: 1998-11-13
;  PRIOR APPLICATION NUMBER: US 09/215,435
;  PRIOR FILING DATE: 1998-12-17
;  PRIOR APPLICATION NUMBER: PCT/IB98/02122
;  PRIOR FILING DATE: 1998-12-17
;  PRIOR APPLICATION NUMBER: US 09/247,155
;  PRIOR FILING DATE: 1999-02-09
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 810
;  SOFTWARE: Patent.pm
; SEQ ID NO 549
;   LENGTH: 36
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-978-360A-549

  Query Match             67.3%;  Score 33;  DB 7;  Length 36;
  Best Local Similarity   57.1%;  Pred. No. 4.5;
  Matches    4;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 HYNIVTF 9
              |:|::||
Db         23 HFNLITF 29


RESULT 21
US-11-188-298-4829
; Sequence 4829, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
;  APPLICANT: Abad, Mark S. et al.
;  TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;  FILE REFERENCE: 38-21(53452)B
;  CURRENT APPLICATION NUMBER: US/11/188,298
;  CURRENT FILING DATE:  2005-07-22
;  PRIOR APPLICATION NUMBER: 60/592,978
;  PRIOR FILING DATE: 2004-07-31
;  NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 4829
;   LENGTH: 329
;   TYPE: PRT
;   ORGANISM: Pyrobaculum aerophilum str. IM2
US-11-188-298-4829

  Query Match             67.3%;  Score 33;  DB 11;  Length 329;
  Best Local Similarity   66.7%;  Pred. No. 45;
  Matches    6;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              | ||| | |
Db        210 RIHYNTVRF 218


RESULT 22
US-11-098-686-10576
; Sequence 10576, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
;  APPLICANT: Kapur, Vivek and Gebhart, Connie J.
;  TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
;  TITLE OF INVENTION:  FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
;  FILE REFERENCE: 09531-128001
;  CURRENT APPLICATION NUMBER: US/11/098,686
;  CURRENT FILING DATE:  2005-04-04
;  PRIOR APPLICATION NUMBER: PCT/US03/31318
;  PRIOR FILING DATE: 2003-10-01
;  PRIOR APPLICATION NUMBER: US 60/416,395
;  PRIOR FILING DATE: 2002-10-04
;  NUMBER OF SEQ ID NOS: 11433
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10576
;   LENGTH: 428
;   TYPE: PRT
;   ORGANISM: Lawsonia intracellularis
US-11-098-686-10576

  Query Match             67.3%;  Score 33;  DB 11;  Length 428;
  Best Local Similarity   75.0%;  Pred. No. 59;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVT 8
              :|||| ||
Db        406 KAHYNDVT 413


RESULT 23
US-10-506-454-1525
; Sequence 1525, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
;  APPLICANT: Slesarev, Alexi I
;  APPLICANT:  Mezhevaya, Katja V
;  APPLICANT:  Polushin, Nikolai N
;  APPLICANT:  Shcherbinina, Olga V
;  APPLICANT:  Shakhova, Vera V
;  APPLICANT:  Malykh, Andrei G
;  APPLICANT:  Kozyavkin, Sergei A
;  TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
;  TITLE OF INVENTION:  Methanopyrus Kandleri AV19 and Monophyly of Archael Methanogens
;  TITLE OF INVENTION:  and Methods of Use Thereof
;  FILE REFERENCE: FID001
;  CURRENT APPLICATION NUMBER: US/10/506,454
;  CURRENT FILING DATE:  2004-08-31
;  PRIOR APPLICATION NUMBER: PCT/US03/06664
;  PRIOR FILING DATE: 2003-03-04
;  PRIOR APPLICATION NUMBER: 60/361,742
;  PRIOR FILING DATE: 2002-03-04
;  NUMBER OF SEQ ID NOS: 1722
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1525
;   LENGTH: 433
;   TYPE: PRT
;   ORGANISM: M. Kandleri
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   OTHER INFORMATION: selencysteine
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (120)..(120)
;   OTHER INFORMATION: selencysteine
US-10-506-454-1525

  Query Match             67.3%;  Score 33;  DB 9;  Length 433;
  Best Local Similarity   55.6%;  Pred. No. 60;
  Matches    5;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              | |||:  |
Db        291 RGHYNVTGF 299


RESULT 24
US-10-506-454-259
; Sequence 259, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
```

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;  APPLICANT: Slesarev, Alexi I
;  APPLICANT:  Mezhevaya, Katja V
;  APPLICANT:  Polushin, Nikolai N
;  APPLICANT:  Shcherbinina, Olga V
;  APPLICANT:  Shakhova, Vera V
;  APPLICANT:  Malykh, Andrei G
;  APPLICANT:  Kozyavkin, Sergei A
;  TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
;  TITLE OF INVENTION:  Methanopyrus Kandleri AV19 and Monophyly of Archael Methanogens
;  TITLE OF INVENTION:  and Methods of Use Thereof
;  FILE REFERENCE: FID001
;  CURRENT APPLICATION NUMBER: US/10/506,454
;  CURRENT FILING DATE:  2004-08-31
;  PRIOR APPLICATION NUMBER: PCT/US03/06664
;  PRIOR FILING DATE: 2003-03-04
;  PRIOR APPLICATION NUMBER: 60/361,742
;  PRIOR FILING DATE: 2002-03-04
;  NUMBER OF SEQ ID NOS: 1722
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 259
;   LENGTH: 434
;   TYPE: PRT
;   ORGANISM: Methanopyrus kandleri
US-10-506-454-259

  Query Match             67.3%;  Score 33;  DB 9;  Length 434;
  Best Local Similarity   55.6%;  Pred. No. 60;
  Matches    5;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVTF 9
              | |||:  |
Db        291 RGHYNVTGF 299


RESULT 25
US-11-054-515-835
; Sequence 835, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 835
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-835

  Query Match             65.3%;  Score 32;  DB 11;  Length 248;
  Best Local Similarity   62.5%;  Pred. No. 53;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVT 8
              |:||:|:|
Db         98 RSHYDILT 105


RESULT 26
US-11-054-515-914
; Sequence 914, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 914
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-914

  Query Match             65.3%;  Score 32;  DB 11;  Length 248;
  Best Local Similarity   62.5%;  Pred. No. 53;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVT 8
              |:||:|:|
Db         98 RSHYDILT 105


RESULT 27
US-11-054-515-916
; Sequence 916, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
```

```
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 916
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-916

  Query Match             65.3%;  Score 32;  DB 11;  Length 248;
  Best Local Similarity   62.5%;  Pred. No. 53;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVT 8
              |:||:|:|
Db         98 RSHYDILT 105


RESULT 28
US-11-054-515-920
; Sequence 920, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 920
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-920

  Query Match             65.3%;  Score 32;  DB 11;  Length 248;
  Best Local Similarity   62.5%;  Pred. No. 53;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVT 8
              |:||:|:|
Db         98 RSHYDILT 105


RESULT 29
US-11-054-515-1323
; Sequence 1323, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1323
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-1323

  Query Match             65.3%;  Score 32;  DB 11;  Length 248;
  Best Local Similarity   62.5%;  Pred. No. 53;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVT 8
              |:||:|:|
Db         98 RSHYDILT 105


RESULT 30
US-11-266-444-835
; Sequence 835, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulato
;  FILE REFERENCE: PF523P1D1
;  CURRENT APPLICATION NUMBER: US/11/266,444
;  CURRENT FILING DATE:  2005-11-04
;  PRIOR APPLICATION NUMBER: 09/880,746
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
```

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;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 835
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-266-444-835

  Query Match             65.3%;  Score 32;  DB 11;  Length 248;
  Best Local Similarity   62.5%;  Pred. No. 53;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVT 8
              |:||:|:|
Db         98 RSHYDILT 105


RESULT 31
US-11-266-444-914
; Sequence 914, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulatc
;  FILE REFERENCE: PF523P1D1
;  CURRENT APPLICATION NUMBER: US/11/266,444
;  CURRENT FILING DATE:  2005-11-04
;  PRIOR APPLICATION NUMBER: 09/880,746
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 914
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-266-444-914

  Query Match             65.3%;  Score 32;  DB 11;  Length 248;
  Best Local Similarity   62.5%;  Pred. No. 53;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVT 8
              |:||:|:|
Db         98 RSHYDILT 105


RESULT 32
US-11-266-444-916
; Sequence 916, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulatc
;  FILE REFERENCE: PF523P1D1
;  CURRENT APPLICATION NUMBER: US/11/266,444
;  CURRENT FILING DATE:  2005-11-04
;  PRIOR APPLICATION NUMBER: 09/880,746
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 916
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-266-444-916

  Query Match             65.3%;  Score 32;  DB 11;  Length 248;
  Best Local Similarity   62.5%;  Pred. No. 53;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVT 8
              |:||:|:|
Db         98 RSHYDILT 105


RESULT 33
US-11-266-444-920
; Sequence 920, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulato
;  FILE REFERENCE: PF523P1D1
;  CURRENT APPLICATION NUMBER: US/11/266,444
;  CURRENT FILING DATE:  2005-11-04
;  PRIOR APPLICATION NUMBER: 09/880,746
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 920
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-266-444-920

  Query Match             65.3%;  Score 32;  DB 11;  Length 248;
  Best Local Similarity   62.5%;  Pred. No. 53;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVT 8
              |:||:|:|
Db         98 RSHYDILT 105


RESULT 34
US-11-266-444-1323
; Sequence 1323, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulato
;  FILE REFERENCE: PF523P1D1
;  CURRENT APPLICATION NUMBER: US/11/266,444
;  CURRENT FILING DATE:  2005-11-04
;  PRIOR APPLICATION NUMBER: 09/880,746
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
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;  PRIOR FILING DATE: 2000-06-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1323
;   LENGTH: 248
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-266-444-1323

  Query Match             65.3%;  Score 32;  DB 11;  Length 248;
  Best Local Similarity   62.5%;  Pred. No. 53;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVT 8
              |:||:|:|
Db         98 RSHYDILT 105


RESULT 35
US-11-054-515-912
; Sequence 912, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 912
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-912

  Query Match             65.3%;  Score 32;  DB 11;  Length 249;
  Best Local Similarity   62.5%;  Pred. No. 53;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVT 8
              |:||:|:|
Db         98 RSHYDILT 105


RESULT 36
US-11-054-515-941
; Sequence 941, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 941
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-941

  Query Match             65.3%;  Score 32;  DB 11;  Length 249;
  Best Local Similarity   62.5%;  Pred. No. 53;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVT 8
              |:||:|:|
Db         98 RSHYDILT 105


RESULT 37
US-11-266-444-912
; Sequence 912, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulatc
;  FILE REFERENCE: PF523P1D1
;  CURRENT APPLICATION NUMBER: US/11/266,444
;  CURRENT FILING DATE:  2005-11-04
;  PRIOR APPLICATION NUMBER: 09/880,746
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 912
;   LENGTH: 249
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;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-266-444-912

  Query Match             65.3%;  Score 32;  DB 11;  Length 249;
  Best Local Similarity   62.5%;  Pred. No. 53;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVT 8
              |:||:|:|
Db         98 RSHYDILT 105


RESULT 38
US-11-266-444-941
; Sequence 941, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulatc
;  FILE REFERENCE: PF523P1D1
;  CURRENT APPLICATION NUMBER: US/11/266,444
;  CURRENT FILING DATE:  2005-11-04
;  PRIOR APPLICATION NUMBER: 09/880,746
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 941
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-266-444-941

  Query Match             65.3%;  Score 32;  DB 11;  Length 249;
  Best Local Similarity   62.5%;  Pred. No. 53;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVT 8
              |:||:|:|
Db         98 RSHYDILT 105


RESULT 39
US-11-054-515-955
; Sequence 955, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 955
;   LENGTH: 251
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-955

  Query Match             65.3%;  Score 32;  DB 11;  Length 251;
  Best Local Similarity   62.5%;  Pred. No. 54;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVT 8
              |:||:|:|
Db         98 RSHYDILT 105


RESULT 40
US-11-054-515-1114
; Sequence 1114, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1114
;   LENGTH: 251
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-1114

  Query Match             65.3%;  Score 32;  DB 11;  Length 251;
  Best Local Similarity   62.5%;  Pred. No. 54;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVT 8
              |:||:|:|
Db         98 RSHYDILT 105
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RESULT 41
US-11-054-515-1309
; Sequence 1309, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1309
;   LENGTH: 251
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-1309

  Query Match             65.3%;  Score 32;  DB 11;  Length 251;
  Best Local Similarity   62.5%;  Pred. No. 54;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVT 8
              |:||:|:|
Db         98 RSHYDILT 105


RESULT 42
US-11-054-515-1317
; Sequence 1317, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1317
;   LENGTH: 251
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-1317

  Query Match             65.3%;  Score 32;  DB 11;  Length 251;
  Best Local Similarity   62.5%;  Pred. No. 54;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVT 8
              |:||:|:|
Db         98 RSHYDILT 105


RESULT 43
US-11-054-515-1332
; Sequence 1332, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1332
;   LENGTH: 251
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-1332

  Query Match             65.3%;  Score 32;  DB 11;  Length 251;
  Best Local Similarity   62.5%;  Pred. No. 54;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVT 8
              |:||:|:|
Db         98 RSHYDILT 105


RESULT 44
US-11-266-444-955
; Sequence 955, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
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;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulato
;  FILE REFERENCE: PF523P1D1
;  CURRENT APPLICATION NUMBER: US/11/266,444
;  CURRENT FILING DATE:  2005-11-04
;  PRIOR APPLICATION NUMBER: 09/880,746
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 955
;   LENGTH: 251
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-266-444-955

  Query Match           65.3%;  Score 32;  DB 11;  Length 251;
  Best Local Similarity  62.5%;  Pred. No. 54;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVT 8
              |:||:|:|
Db         98 RSHYDILT 105


RESULT 45
US-11-266-444-1114
; Sequence 1114, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulato
;  FILE REFERENCE: PF523P1D1
;  CURRENT APPLICATION NUMBER: US/11/266,444
;  CURRENT FILING DATE:  2005-11-04
;  PRIOR APPLICATION NUMBER: 09/880,746
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1114
;   LENGTH: 251
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-266-444-1114

  Query Match           65.3%;  Score 32;  DB 11;  Length 251;
  Best Local Similarity  62.5%;  Pred. No. 54;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVT 8
              |:||:|:|
Db         98 RSHYDILT 105


RESULT 46
US-11-266-444-1309
; Sequence 1309, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulato
;  FILE REFERENCE: PF523P1D1
;  CURRENT APPLICATION NUMBER: US/11/266,444
;  CURRENT FILING DATE:  2005-11-04
;  PRIOR APPLICATION NUMBER: 09/880,746
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1309
;   LENGTH: 251
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-266-444-1309

  Query Match           65.3%;  Score 32;  DB 11;  Length 251;
  Best Local Similarity  62.5%;  Pred. No. 54;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVT 8
              |:||:|:|
Db         98 RSHYDILT 105


RESULT 47
US-11-266-444-1317
; Sequence 1317, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulato
;  FILE REFERENCE: PF523P1D1
;  CURRENT APPLICATION NUMBER: US/11/266,444
;  CURRENT FILING DATE:  2005-11-04
;  PRIOR APPLICATION NUMBER: 09/880,746
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1317
;   LENGTH: 251
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-266-444-1317

  Query Match           65.3%;  Score 32;  DB 11;  Length 251;
  Best Local Similarity  62.5%;  Pred. No. 54;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;
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Qy          1 RAHYNIVT 8
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Db         98 RSHYDILT 105


RESULT 48
US-11-266-444-1332
; Sequence 1332, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulato
;  FILE REFERENCE: PF523P1D1
;  CURRENT APPLICATION NUMBER: US/11/266,444
;  CURRENT FILING DATE:  2005-11-04
;  PRIOR APPLICATION NUMBER: 09/880,746
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1332
;   LENGTH: 251
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-266-444-1332

  Query Match             65.3%;  Score 32;  DB 11;  Length 251;
  Best Local Similarity   62.5%;  Pred. No. 54;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 RAHYNIVT 8
              |:||:|:|
Db         98 RSHYDILT 105


RESULT 49
US-11-054-515-988
; Sequence 988, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 988
;   LENGTH: 252
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-988

  Query Match             65.3%;  Score 32;  DB 11;  Length 252;
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Qy          1 RAHYNIVT 8
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Db         98 RSHYDILT 105


RESULT 50
US-11-266-444-988
; Sequence 988, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulato
;  FILE REFERENCE: PF523P1D1
;  CURRENT APPLICATION NUMBER: US/11/266,444
;  CURRENT FILING DATE:  2005-11-04
;  PRIOR APPLICATION NUMBER: 09/880,746
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 988
;   LENGTH: 252
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-266-444-988

  Query Match             65.3%;  Score 32;  DB 11;  Length 252;
  Best Local Similarity   62.5%;  Pred. No. 54;
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